An Empirical Revision of the Definition of Science Fiction: it's all in the Techne

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Abstract

Data from an audience survey on the characteristics of the science fiction and fantasy genres was compared to existing approaches to genre classification to build an alternative genre classification for science fiction based on popular understanding of the genre.

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Abstract

Researchers increasingly employ science fiction and fantasy in public engagement, advocacy and education, and imply popular understanding. Existing definitions of science fiction, especially postmodern definitions, risk obliterating the very concept of genre, and the use of science fiction as an effective research tool is undermined if the genre no longer contains meaning. We surveyed the public for their definitions of science fiction and fantasy and discovered the popular definition of science fiction is based on a few, very clearly defined, story features, unlike the complexity and fluidity of academic approaches. The survey analysis suggests science-fiction contains a categorical core within a mutable family of associated features. The empirical survey data is highly consistent, and demonstrates a very clear distinction between popular definitions of science fiction and fantasy. We support this finding with theoretical analysis that implies historic definitions may be artefacts of examining secondary characteristics, as if these were the primary genre features. Wittgenstein's family resemblances, sometimes employed as definitive, should be interpreted as surface features. We identify and explore primary features exposed by the survey and, on the basis of the common themes within the raw material itself, suggest the Classical concept of techne better describes the empirical essence of science fiction.

Key words: digital humanities; science communication; science fiction; fantasy; genre; postmodernism; English literature, audience survey

Introduction: the need for a popular definition

A recent literature review found that science fiction – in text, cartoon, game, film and television forms – is being increasingly used as source material to aid research outcomes across multiple disciplines (Menadue & Cheer, 2017). Science fiction is used for public engagement (Carpenter, 2016; Hansen, 2004; Larsen, 2011; McIntire, 1982; Milner, 2009; Toscano, 2011; Van Dijck, 1999; Wilsing & Akpinar-Wilsing, 2004). Research also relates the evolving content of science fiction to cultural change, concerns and interests (Bina, Mateus, Pereira, & Caffa, 2016; Guerra, 2009; Hollinger, 1999; Hull, 2005; Kohlmann, 2014; Kotasek, 2015; Menadue, 2017b, 2018b; Nerlich, Clarke, & Dingwall, 1999; Parrinder, 2009; Schwartz, 1971). Advocacy, pedagogy, and science communication, that employ science fiction to effect real-world outcomes must rely on common understandings of science fiction to be meaningful. It is difficult to overstate the importance of effective science communication – consider fields of research as hotly contested and potentially damaging as anti-vaccination activism (Nyhan, Reifler, Richey, & Freed, 2014), and climate change denial (Maibach et al., 2012).

The literature review was published in a multidisciplinary open journal. To respect the wide-ranging audience, an all-inclusive definition of science fiction was used to include the contexts of all 43 works reviewed, starting with the cloning motif found in the Sumerian *Epic of Gilgamesh*. This generalised definition was not queried by the editor or peer-reviewers, and it was found the majority of papers identified in the literature review, across multiple disciplines, did not provide any definitions of the science fiction that was a significant element of their research. The implication is that the researchers reviewed believe 'science fiction' is universally comprehended, and does not demand definition. This contrasts with analytical, formal academic approaches, which approach genre definition from a historical research tradition, and omit the phenomenological experience of the audience. The survey *Science Fiction and Fantasy: Your Opinions* (Menadue, 2017a) was created to address this phenomenological gap, for the purpose of discovering popular opinions on the nature, structure and definitions of science fiction and fantasy. The findings from that survey are analysed here.

The relevance of science fiction-focused research requires the researcher and their audience to share the same comprehension of the genre. To assume that the researcher's definition is commonly shared might be problematic. If, for example, a research group extrapolated public interests and concerns about science from a subjective selection of science fiction works, which did not accurately reflect the public view, and used the results to direct public science funding priorities. This may seem an unlikely example, but Olivia Bina, Sandra

Mateus, Lavinia Pereira and Annalisa Caffa did exactly this, in a paper written to influence EU policy on science funding priorities (Bina et al., 2016). The works that the researchers included as indications of public attitudes are a hit-list of the finest critical examples of the science fiction canon, including: Verne's *Paris in the Twentieth Century*, Forster's *The Machine Stops*, Zemyatin's *We*, Godard's *Alphaville*, LeGuin's *The Lathe of Heaven* and the Tarkovsky film of Lem's *Solaris*. Much as science fiction academics might weep over the fact, contemporary consumers are largely, even perhaps blissfully, unaware of these works. Responses to a recent survey (Menadue, 2016) indicate that Terry Pratchett, Isaac Asimov, Ursula LeGuin, J.R.R. Tolkein, Robert Heinlein, Neil Gaiman, Philip K. Dick and J.K. Rowling are the most popular authors of science fiction and fantasy today, and in that order. Only LeGuin features in Bina's catalogue.

1.1 Terminology used in this paper

We discuss existing academic theories of the science fiction genre, and how they contrast with, or support, the popular definitions derived from survey responses. For clarity, it is necessary to distinguish between categories of science fiction definitions to avoid potentially confusing or misleading the reader. The term 'Fiction of Estrangement' (FoE) is applied here to the collective historic academic approaches – an acknowledgement that the battered crown of sf definition is generally to be found on the 'cognitively estranged' head of Darko Suvin, following his landmark work on genre analysis that he wrote in the late nineteen seventies (Suvin, 1979) – and it is perhaps an easily remembered acronym. The terms 'science fiction' and 'fantasy' will refer to non-academic classifications of these works, including those of authors, publishers, retailers and editors. The term 'sf' will be applied generically to all science or fantasy fiction regardless of whether this is from academic or non-academic perspectives.

2 METHODS

Our methodological approach applies two perspectives to the problem of definition – analysis of the responses to an audience survey and an evaluation of science fiction genre theory. We then compare and contrast with the findings.

2.1 The World Outside Text: The Survey

Subjective opinions of authors, and established academic theories, appear not to have been previously subjected to independent evaluation based on the expectations and opinions of the general public – who are the beneficiaries of applied research that employs science fiction concepts and content. We suggest this lack of a common baseline fuels increasingly complex academic work towards the uncertainty of being able to create any meaningful definition. It was with a view to investigating this complexity that the *Science Fiction & Fantasy: Your Opinions* survey (Menadue, 2017a) was created, the aim being to assess the genre definitions of science fiction and fantasy from an original, empirical perspective, rather than relying on theory alone.

2.2 Sample Characteristics

Email and Facebook promotion of the survey generated a significant sample of 232 unique, globally distributed, responses. Most respondents were English speaking North Americans, Western Europeans, Australians and New Zealanders. The North American responses showed a spike in responses during promotion of the survey on the Facebook page of the SFFWA, indicating writers and fans participated. The demographics of the respondents showed a broad spread of ages, no gender bias, and a dominance of tertiary educated respondents. These demographics were also observed in the previous *Science Fiction & Fantasy: Your Experiences* survey (Menadue, 2016; Menadue & Jacups, 2018).

2.3 Survey Results and Discussion

Only two survey respondents employed FoE terms and concepts. Two further respondents referred to Samuel Delany's classification of science fiction on the basis of 'subjunctivity' (Delany, 2009: 31-36), and three referred to *Clarke's Third Law* (Clarke, 1968) that "any sufficiently advanced technology is indistinguishable from magic" to justify apparently fantastical elements appearing in some science fiction stories. Qualitative survey of the

remaining 97% of responses found definitions based on presence or absence of specific content, which suggested statistical evaluation on the basis of word frequency and category would be a suitable analytical method to generate meaningful results (Table 1.). The story application of the content described was also frequently couched in terms of plausibility or lack of plausibility, the presence of explanations or lack of explicable content. This remarkable lack of equivocation and qualification of responses was the first clear indicator that the definitions of the respondents were markedly and categorically polarised.

Time stamp of response	What is it about a book that makes you think of it as fantasy?	What is it about a book that makes you think of it as science fiction?
11/11/2016 15:58:11	Incorporating creatures such as dragons or orcs; the story contains magical elements.	Within the realms of possibility using scientific elements or scenarios.
11/12/2016 6:59:45	Fantasy is when elements of the novel are not realistic or possible. I.e. include mythical creatures, super powers	Evolution of science based inventions or themes.
11/19/2016 14:48:20	A story with fictional elements that could never happen.	A story with fictional elements that could happen, usually based around advanced technology.
11/20/2016 0:23:38	Magic of some sort; something that reminds you it is not real	Generally speaking I do not read science fiction although I do watch SF movies; so my answer might be cliche: other planets, science and technology that is far more advanced than ours which makes the story implausible.
11/20/2016 14:29:24	Fantasy tends to rely on magic for its world building rather than science, engineering, or economics.	Science fiction to me tends to focus on the future and present a vision, somehow rooted in science or engineering or real history, of how the future might work out.

Table 1. Examples of responses to genre definition questions. For full list see Appendix A.

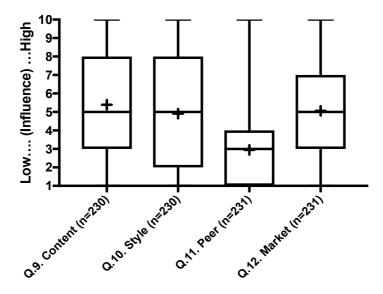


Fig. 1. Perceived content, style, peer and

We asked general questions about the influence of content types, style and structure, peer influence and marketing on genre definitions (Fig. 1), but the responses to these questions

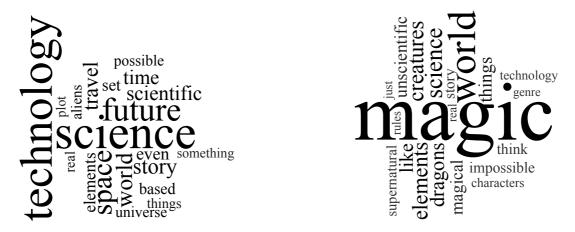


Fig. 2. What makes a story

Fig. 3. What makes a story

were ambivalent except for the assertion that peer influence has little effect. Our more exact questions regarding personal assessments of the quality of fiction provided unequivocal opinions (Fig. 7), but no science fiction or fantasy terms. These responses imply that generic factors do not clearly affect definitions of science fiction or fantasy. This is interesting, as when asked more direct questions on what makes a story fantasy or science fiction the answers were clearly and directly focused on exclusive differences in content and structure, which may support the suggestion that the comprehension of genre is intuitive – that respondents do not consciously believe these factors are important to genre definition, but identification of a specific genre is nonetheless founded in specific content and structure categorisation.

Free-text responses to the questions 'what makes a story science fiction' and 'what makes a story fantasy' used distinctive vocabulary (Fig. 2, Fig. 3, Tables 1-3). 'Science' and 'technology' are categorical indicators for science fiction (Fig. 2, Table 2), and the word 'magic' dominates descriptions of fantasy literature (Fig. 3, Table 3.). Statistical classification of the terms used to distinguish science fiction and fantasy demonstrate overwhelming consistency, with the presence of magic associated with fantasy, and the combination of science and technology being a universal indicator for the science fiction category (Fig. 4, see Appendix for data table). Word clouds of the 20 most frequent terms in the free text responses (Fig. 2, Fig. 3) illustrate the strength of discrimination between fantasy and science fiction content. In generating these word clouds, antithetical phrases such as 'no magic' or 'no science content' were converted into single words e.g. 'unmagical' and 'unscientific' to enable them to be visible in appropriate context. To avoid skewed results caused by self-referencing, the terms 'science fiction' and 'fantasy' were not counted when employed as genre names, rather than descriptions of content. For categorisation analysis, all responses were qualitatively assessed to identify the presence and context of the 30 most frequent words used in each definition found in frequency analysis and the results tabulated by stemming (e.g. 'magical', 'magic', 'magic-based' would all be categorised as 'magic'). In Figure 4, classification tree branches are at presence or absence (including negative statements) of terms found in any of 464 responses, 232 'what makes it fantasy', 232 'what makes it science fiction', 17 non responses were received to both questions. This classification tree potentially had 44 nodes based on the 30 most frequent words in response to each question – 16 words were shared between science fiction and fantasy definitions, generally in a positive or negative affirmation e.g. 'science fiction does not contain magic' or 'fantasy is based on magic.'

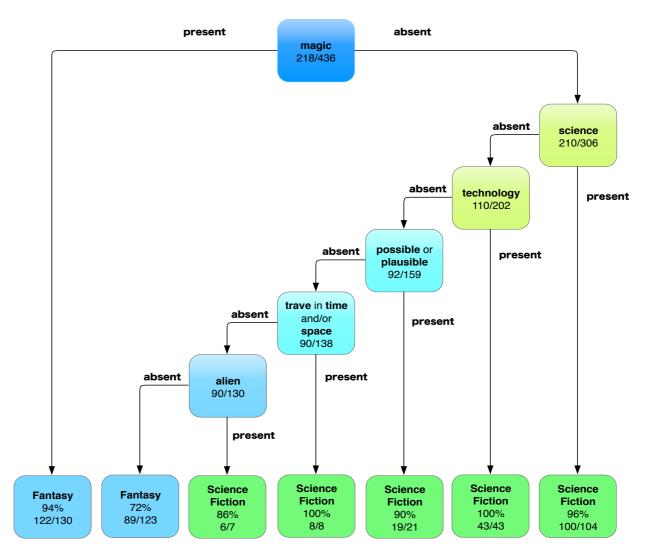


Fig. 4 Classification tree demonstrating confidence levels of categorisation of science fiction or fantasy based on descriptors.

2.3.1 The Hybridisation Control Test: Dune

To test if the distinction between science fiction and fantasy was polarised or on a continuum, respondents were asked to classify Frank Herbert's *Dune* (Fig. 5), and explain their reasoning (Fig. 6).

Dune (Herbert, 1965) contains science and technology that is plausible or actual, such as atomic power and weaponry. It also describes the physically impossible, such as instantaneous space travel and powers of prophecy. *Dune* is not pure science fiction according

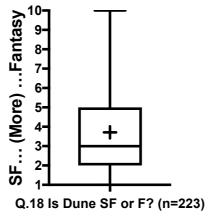


Fig. 5 Likert scale classification of *Dune* as science fiction or fantasy

to the Likert scale responses (Fig. 5), and word frequency analysis of the responses suggests that the classification into science fiction or fantasy is not clear in the case of *Dune* (Fig. 6).



Fig. 6. Defining *Dune* (100 most frequent words shown)

Qualitative examination of the free text responses to this question provide a more nuanced perspective. Some respondents employed Clarke's Third Law to integrate ostensibly fantastic elements into a science-fictional narrative: they argued that plausible explanations converted impossible fantasy into possible science fiction. The genetic engineering of humans into organic computers seems plausible in a society that has banned thinking machines. The powers of the messianic central character arise from special properties of the spice, combined with the sociological factors of the Fremen's fanatical devotion and the manipulations of the Bene Gesserit. Those who found these elements to be impossible or implausible rated *Dune* towards the fantasy end of the scale.

However, when explaining where they had placed Dune on the Likert scale, respondents did not introduce new 'science-fantasy' terminology. Instead, they classified the content of *Dune* as a set of individual science fiction or fantasy elements, meeting the same criteria they used to define these genres more globally. This seems to confirm that science fiction and fantasy have specific and distinct characteristics which do not overlap. *Dune* provides evidence that respondents apply the classification in Fig. 4. to individual elements of story narrative. The proportion of specific science fiction to specific fantasy elements, and not a blurry continuum of the sort despised by Frederik Pohl, determines Likert scale placement of *Dune*. Works such as *Dune* may intertwine the threads of family resemblances of science fiction and fantasy, but the core distinguishing features of science fiction are unchanged: science, technology and possibility – there is no evidence for a unique third genre of 'science fantasy.'

2.3.2 Significance of style and aesthetics

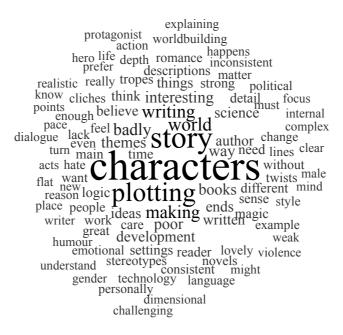


Fig. 7. What makes a good story? What makes a bad story? What do your favourite books have in common? (combined).

Responses to Q.16 and Q.17 (Fig. 2, Fig. 3) defining fantasy and science fiction were not connected to story quality (Fig.7). Answers to three closely related questions: 'what makes a good story', 'what makes a bad story' and 'what do your favourite books have in common' all affirmed that characterization is the most significant influence on story quality. Terms used to define science fiction and fantasy are notably absent. This indicates that the categorisation of science fiction and fantasy is not quality dependent, but is a distinction arising elsewhere. Style is an indicator for quality, but not for genre, which is determined by content.

2.3.3 Word Frequencies

Word	Count	Weighted %	Similar Words
science	125	4.25%	science, sciences
technology	90	3.06%	technological, technologically, technologies, technology
future	58	1.97%	future, futures, futurism
fiction	55	1.87%	fiction, fictional
space	47	1.60%	space

world	40	1.36%	world, worlds
story	38	1.29%	stories, story
travel	33	1.12%	travel, traveler, travelling
scientific	32	1.09%	scientific, scientifically
possible	30	1.02%	possibilities, possibility, possible, possibly

Table 2. Ten most commonly occurring words used to define science fiction (by word counts of raw data). 'Science' and 'fiction' appear prominently in responses as the name of the genre, as well as to refer to science as a feature of the genre. To account for this, responses were analysed and uses of words as genre names were removed for categorisation tree analysis.

Word	Count	Weighted %	Similar Words
magical	169	4.60%	'magic', magic, magic', magical
fantasy	163	4.43%	'fantasy', fantasies, fantasy
science	80	2.18%	science
worlds	77	2.09%	world, world', worlds
elements	40	1.09%	element, elements
story	34	0.92%	stories, story
dragons	34	0.92%	dragon, dragons
technology	34	0.92%	'technology, technological, technologically, technologies, technology
fiction	34	0.92%	fiction, fictional
like	33	0.90%	like, likely

Table 3. Ten most commonly occurring words used to define fantasy (by word counts of raw data). Note that 'fantasy' appears in responses as a genre name as well as a description of content. In Table 3., 'technology' and 'science' appeared in the responses as negative values, used by the respondents to describe what fantasy is not. This was applied as negatives in the categorisation tree analysis.

Word frequency analysis of responses (Tables 2 & 3), and classification tree analysis (Fig. 4) demonstrate very specific discrimination between science fiction and fantasy through content filters of magic, science, technology and plausibility. The overwhelming lack of complex, theory-based, responses suggests a quantitative and categorical analysis is appropriate, and implies respondents were providing personal, intuitive definitions rather than ones based on knowledge of academic theory, and this was the case regardless of whether the

respondents gave their occupation as a 'genre-professional' (e.g. writer, editor) or not, again adding substance to targument that these responses are not sourced from definitions taken from academic theory.

2.3.4 Evidence of Fuzzy Sets

A fuzzy set is composed of items that are not defined by purely binary conditions, but exhibit degrees of membership (Zadeh, 1965). These, alongside family resemblances, appear to augment our core categorisation of science fiction and fantasy. We have used a combination of methods to illustrate and support the rigour of our analysis: word clouds, classification analysis and Likert scales; to illustrate personal perspectives (Figs. 2,3,4), and external influences (Fig. 1). The choice of words in free-text responses is statistically significant in indicating an evidently binary categorisation. In apparent contrast, Likert scale indications of the influences of content, style, peer and market are not polarised. In some cases, the responses indicate almost complete ambivalence, with both means and medians close to the centre point of the response scale (Fig. 1., showing results from Q. 9, 10 and 12 of the survey (Menadue, 2017a)). The fuzziness of these responses is indicated by the relative lack of extreme responses to the scaled questions. The control question that could falsify a strict demarcation of science fiction and fantasy by identifying non-binary categorisations was whether *Dune* is fantasy or science fiction. Out of 224 responses to this question there were 43 responses of (1): definitely science fiction, and four that it was (10): definitely fantasy. Research has been carried out at length into the factors affecting Likert scale responses, which can include avoidance of end-of-scale responses, gravitating towards the ends, and bias caused by the direction of positive, negative and neutral points on the scale (Coertjens, Donche, De Maeyer, Vanthournout, & Van Petegem, 2012; Croasmun & Ostrom, 2011; Hartley, 2014; Lantz, 2013; Thissen-Roe & Thissen, 2013). As we were looking for evidence of *any* non-binary response, scale biases are largely irrelevant to our interpretation of the results. The results indicate a fuzzy set of associations including vocabulary, style, marketing and peer pressure, outside the sharply defined core characteristics of science fiction and fantasy. Family resemblances are clearly relevant to the ability of respondents to classify a range of different works without difficulty. Other varieties of content and external phenomenological experiences are also present, and associated with science fiction and/or fantasy. These appear to form fuzzy sets around the core criteria. This explains the fact that respondents were able to provide a variable scaled response to some questions, without compromising a clearly categorical classification.

2.4 Limitations

Research on the characteristics of online surveys have found that online surveys have a comparatively low drop-out rate and more complete data responses compared to postal surveys, but are inherently influenced by self-selection (Dolnicar, Laesser, & Matus, 2009). Martine Van Selm and Nicholas Jankowski have discussed how targeting specific online communities can be an effective method of harvesting survey responses, and specifically for what Swoboda et. al. describe as "expert interrogations," also highlighting the cost-effectiveness of this approach and the openness of responses that is encouraged by anonymity (Selm & Jankowski, 2006: 437). Selm and Jankowski acknowledge the limitations arising from technology use, and being unable to control the pattern of respondents due to lack of control over survey dissemination (p. 438). The survey was only available in English, as were the survey instructions and promotion, which reduces the responses by non-native speakers of English and influences survey dissemination.

Complex media engagement practices, involving two-way interactions, are found in online audiences, and this is considered to make online survey design and application challenging, and not as similar to pre-technological research paradigms (Livingstone, 2013; Yun & Trumbo, 2000). Overcoming limitations of the characteristics of online surveying (Callegaro, Lozar, & Vehovar, 2015), can only be reduced by multi-modal and methodical sampling beyond the resources available to this study. It should be noted, however, that the survey sought the opinions of people who are familiar with the genre, and therefore the meaningfulness of the responses is not impacted by a lack of dissemination among a wider population. The "expert interrogations" highlighted by Swoboda et. al. should apply particularly strongly to this survey as approximately half the responses came from people visiting the Facebook page of the Science Fiction and Fantasy Writers of America, but we found no significant difference between definitions given by 'professionals' and those of other respondents.

2.5 Survey Results: Summary

We discovered that science fiction and fantasy genre definitions are predominantly influenced by vocabulary and plausibility. This contrasts with historic academic definitions of FoE. This distinction was so sharply defined that the word 'magic' was a categorizing factor in 94% responses to the question 'what makes [a work] fantasy?', and the presence of the word 'science' (independent of labels for the genre) was a 96% indicator for science fiction. The

word 'technology', provided a 100% categorisation as science fiction. The public recognise the categories without deep analysis, and independently to aesthetic considerations. They interpret the narrative as an assembly of terms and relationships combined with external influences, and the genre is known by how these resonate. This circumvents definitions based on qualitative standards or purely theoretical structures, including those found in FoE research. The empirical evidence suggests the survey respondents are defining genres from a core of essential features, which are orbited by family resemblances and fuzzy sets. The influence from marketing and peers are parts of the fuzzy sets of associations, and marketing categorisation may even be influenced by shared distinctions understood by the marketers, rather than being the arbitrary designations that might be assumed.

We found that the quality of content is immaterial to classification, although it is vital to what makes a 'good' or 'bad' story, and evidence of distinctions based in formal theoretical analysis was almost entirely lacking from responses. Responses suggested that the logical rigour of narrative structure – plausibility – is an influence on the classification of a work as science fiction, and perhaps the structure of the narrative influences categorisation. To analyse this feature in more depth was beyond the scope of the survey, however, but may prove fruitful for further study.

The empirical data suggests that science fiction exists, in a real and permanent way, and is more than a fluid and mutable association of resemblances. Popular definition is not dependent upon abstract or unconscious factors, which may be features of academic definitions of FoE. The public recognise the categories independently of analytical or aesthetic considerations: they interpret the genre of the narrative as an assembly of terms and relationships combined with external influences. This contrasts strongly with definitions based on qualitative standards or theoretical structures, including those of FoE. The empirical evidence suggests the survey respondents are defining genres from a core of essential features, which are orbited by family resemblances and fuzzy sets. The influences of marketing and peers are included in the fuzzy sets of associations, and marketing categorisation may even be influenced by shared distinctions understood by the marketers, rather than being an entirely arbitrary designation. The focus of the respondents on science and technology provides us with a characteristic of human experience that identifies science fiction.

Whether a story is deemed 'good' or 'bad' has strongly qualitative characteristics which are independent of genre (Fig. 7). Less than 3 % of respondents made a differentiation between science fiction and fantasy based on theoretical distinctions of any sort, although many more respondents (those who are writers or editors of science fiction) might be considered experts

according to online survey response theories. The presence of a plausible narrative structure, based in logic, influences the classification of a work as science fiction, and the formal narrative structure implied by this may be an indicator that influences categorisation. To analyse this feature in more depth is beyond the scope here, but may provide the basis for further studies.

3 Theoretical Approaches to Science Fiction

Science fictional concepts are visible in work that significantly pre-dates the twentieth century origins of the name, but Hugo Gernsback's employment of the awkward neologism 'scientifiction' in *Electrical Experimenter* (Gernsback, 1916) was the first attempt to define this emerging genre. The easier-to-enunciate 'science fiction' was to become the dominant genre name within a decade. The inclusion of 'science fiction' in the titles of magazines containing fantasy, horror, thriller and detective stories – alongside 'scientifiction' – might have diluted the clarity of the public understanding of the genre from the outset rather than maintaining a clear concept of what 'science fiction' entailed. This diverse content is demonstrated in research that samples content from sf magazines (Menadue, 2017b, 2018a), and identifies sources that genre theorists and industry professionals have attempted to dismiss from the science fiction canon. We have found in our survey that science fiction is an extremely well-defined genre in the minds of the science fiction audience. This calls for an investigation of the science fiction genre as it exists and has been defined by specialists and theorists, and to attempt to explain differences between public and private definitions.

3.1 The Shock of the New

'Science fiction' emerged when science was 'the new', a wide range of exciting possibilities across a broader range of human interests (Cheng, 2012). John W. Campbell, editor of *Astounding Science Fiction (ASF)* between 1937 and 1971, called for technological science fiction, and included articles on scientific topics in *ASF*. Robert Heinlein, an independently minded writer who was successful enough to not be intimidated by Campbell's edicts (Heinlein, 1989), described the genre differently as 'speculative fiction' in his 1947 essay on writing:

There is another type of honest-to-goodness science fiction story that is not usually regarded as science fiction: the story of people dealing with contemporary science or technology. We do not ordinarily mean this sort of story when we say, "science fiction"; what we do mean is the speculative story, the story embodying the notion "just suppose—" or "What would happen if —." In the speculative science fiction

story accepted science and established fiefs are extrapolated to produce a new situation, a new framework for human action. As a result of this new situation, new human problems are created — and our story is about how human beings cope with those new problems. (Heinlein, 1991: 5)

Heinlein described the human experience of 'science as new possibilities' of the earlier part of the 20th Century. This accords with a paper analyzing responses to the Science Fiction and Fantasy: Your Experiences survey (Menadue & Jacups, 2018), which discovered a statistically significant correlation between readers' experiences of science, scientists and science fiction, and 'newness' of thought and action. This classification of a form of literature by its association with 'newness' is much older, however. Aristotle's definition of poeisis (as "creative production" – not to be confused with the more narrowly defined modern use of 'poetry') could be describing science fiction:

the poet's function is to describe, not the thing that has happened, but a kind of thing that might happen, i.e. what is possible as being probable or necessary... you might put the work of Herodotus into verse, and it would still be a species of history; it consists really in this, that the one describes the thing that has been, and the other a kind of thing that might be. Hence poetry is something more philosophic and of graver import than history, since its statements are of the nature rather of universals, whereas those of history are singulars. By a universal statement I mean one as to what such or such a kind of man will probably or necessarily say or do. (Aristotle, trans. 1920, 9)

Samuel Delany's description in The Jewel Hinged Jaw of content distinction on the basis of 'subjunctivity' echoes Aristotle; defining content elements as the 'could have happened', 'could not have happened' and 'have not happened', he also adds the historical category 'this happened' of journalism – analogous to written history (Delany, 2009: 31-36). Aristotle's description of 'a kind of thing that might be' is remarkably similar to Heinlein's description of speculative fiction, and we argue that this is not coincidental, but that they both reflect the human experience of creativity – both mental and physical.

Aristotle's emphasis on the 'universals' of poetry, a speculative form of literature, compared to the 'singulars' of history implies these are naturalistic distinctions. Our poetic, science fictional, visions of the future are thought-experiments about what might be real, or possible. This contrasts with history, and contemporary applied science, some of which – for example, the pervasive electronic surveillance of Orwell's 1984, mobile phones, spaceflight, cloning, killer robots... – has become realised after originating in the (unreal) thought experiments of science fiction. When content becomes physically, or culturally actualized, it passes out of the stuff of fiction and becomes reality: Aristotle's 'history,' falling away from the core of science fiction. As Jean Baudrillard observed of the Apollo missions, once we have

observed men sent to the moon in a small metal box with a bathroom, this is no longer the stuff of science fiction (Baudrillard, 1991).

There have been other definitions of science fiction of varying degrees of utility; Roger Luckhurst noted in 2006 that Bruno Latour had stolen 'scientifiction' as his own neologism (Luckhurst, 2006). This indicates, ironically, that the failure of this term in the early 20th Century enables it to be 'rediscovered' as an alternative to the value-laden labels of 'science fiction' or 'speculative fiction' – the first term coloured by Campbell's technology focus, the latter by association with the British 'New Wave' writers of the '60s and '70s. In *The Jewel Hinged Jaw* Samuel Delaney dismissed "speculative fiction", consigning Heinlein and the New Wave to a merely "historical reference" (Delany, 2009: x). Resurrecting Gernsback's awkward term is unrealistic, but the enduring difficulties of rule-based classification of the genre include the seemingly insoluble problem of value-laden terminology. Finding a popular definition of science fiction, and using that as a basis for discussion, is a way of clarifying the real values of the genre.

3.2 The fiction of estrangement

Academic definitions of science fiction are distributed into three general categories: concept, context and content. Conceptual approaches are dominated by Darko Suvin's statement in 1977 that "SF is distinguished by the narrative dominance of a fictional novelty (novum / innovation) validated both by being continuous with a body of already existing cognitions and by being a "mental experiment" based on "cognitive logic" (Suvin, 2010: 67). Suvin proposed 'cognitive estrangement' as a quality which categorically defines science fiction (Suvin, 1979). Suvin borrowed openly from Bertolt Brecht and the Russian Formalists, particularly Viktor Shklovsky (Suvin & Tatsumi, 1985), sharing their focus on estrangement, and Suvin's usage approximates the *ostraniene* of Shklovsky. Suvin's definition might also be considered a subclassification of Tzvetan Todorov's all-inclusive description of fantasy (Todorov, 1975), but science fiction and fantasy are commonly used and specifically employed terms – as we find in our investigation – and it seems sensible to respect Suvin's assumption of difference.

The meaningfulness of Suvin's definition to a general audience has been questioned by other researchers in the field. Carl Freedman observed that Suvin includes Brecht, but excludes *Star Wars* and *Star Trek* from the science fiction canon. This distinction makes little sense to the non-academic (Freedman, 2000: 16-19). There are alternative and complementary critical definitions, and genre descriptions, for science fiction – and each has their own strengths and weaknesses. For example, Adam Roberts suggested that western science fiction is an

essentially Protestant form and fantasy is Catholic (Roberts, 2005: 59-60). Roberts suggests that the qualities of science fiction reflect Protestant pragmatism, in contrast to fantasy, which resonates with Catholic mystery and ceremony. While Roberts' definition seems sensible for some stories, and not only those with an overt Christian theme such as *A Case of Conscience* by James Blish, or *A Canticle for Leibowitz* by Walter M. Miller (Blish, 1963; Miller, 1960), it excludes both pre-schismatic and non-Christian writing.

Mark Bould and Sherryl Vint argue in *There is no such thing as science fiction* that "genres are never, as frequently perceived, objects which already exist in the world and which are subsequently studied by genre critics, but fluid and tenuous constructions made by the interaction of various claims and practices by writers, producers, distributors, marketers, readers, fans, critics and other discursive agents" (Bould & Vint, 2009: 48). John Rieder in *On defining SF, or not: genre theory, SF, and history* suggests that a comparative, mutable, genre definition located in factors and influences is not a definition at all, supporting the opinion of Bould and Vint (Rieder, 2010).

3.3 Writers vs. Readers

Professional authors tend to focus on content specifics. Stanislaw Lem stated: "it is the premise of SF that anything shown shall in principle be interpreted empirically and rationally. In SF there can be no inexplicable marvels, no transcendences, no devils or demons—and the pattern of occurrences must be verisimilar" (Lem, Rottensteiner, Gillespie, D. S., & R. D. M., 1973: 28). The author Philip K. Dick also talked about the explicable:

Take psionics; take mutants such as we find in Ted Sturgeon's wonderful MORE THAN HUMAN. If the reader believes that such mutants could exist, then he will view Sturgeon's novel as science fiction. If, however, he believes that such mutants are, like wizards and dragons, not possible, nor will ever be possible, then he is reading a fantasy novel. Fantasy involves that which general opinion regards as impossible; science fiction involves that which general opinion regards as possible under the right circumstances. (Dick, 1999: xiii-xiv)

Editor and writer Frederik Pohl lamented a perceived fuzziness of the public perception of boundaries between science fiction and fantasy:

...science fiction is not, is positively not, fantasy...there is a tendency... to lump the two genres together. Bookstore proprietors, librarians, and casual readers have long blurred the differences in their own minds. What is worse is that in recent years the distinction has been made fuzzier still, even by some of the very institutions that were originally set up to defend sf against all other kinds of writing. For example—

1. The trade union of the people who write the stuff, the Science Fiction Writers of America, has changed its name to the Science Fiction and Fantasy Writers of America [SFFWA].... the academic wing of the field...routinely gives to works of fantasy the same attention once given only to science fiction...Science-fiction [conventions]...habitually give comparably equal time to the other genre. (Pohl, 1997)

Pohl's definition, however, is subjective, and symptomatic of the "ghetto effect" described by Wolfe and Weil in their consideration of the genre placement of Harlan Ellison (Wolfe & Weil, 1990).

Other writers also express strong opinions on permissible definitions. Margaret Atwood declared – countering Ursula Le Guin – that she does not write science fiction at all (Atwood, 2011). Science fiction consumers are quick to identify such 'shy-fi' authors as dissembling. All 24 public comments below Atwood's article define her work, like Orwell's *1984*, or Huxley's *Brave New World*, as science fiction. Reader 'Mmmrrrggglll' argues in her comment: "It's the community and its reaction to – and from – the wider world that gives it its names/ tags/ colloquialisms not the oddly narrow stereotypes of a single member of that community – albeit a relatively powerful one" (n.p).

Tautological assertions, such as Pohl's affirmation that science fiction is categorically not fantasy, or Atwood's claim that her work is not science fiction (because she says so) call for a more objective, shared, classification by a statistically significant number of people.

Ironically, our findings suggest that SFFWA members have a very clear concept of the difference between science fiction and fantasy regardless of Pohl's objections, and are in close accord with both him and Lem: that science fiction is 'positively not fantasy', and is an expression of scientific and technological rationalism rather than the inexplicable.

3.4 The Significance of Style

The editor of *Galaxy Magazine*, Horace Gold, provided the following manifesto on the back cover of the first issue:

Jets blasting, Bat Durston came screeching down through the atmosphere of Bbllzznaj. He cut out his super-hyper-drive for the landing...and at that point, a tall, lean spaceman stepped out of the tail assembly, proton gun-blaster in a spacetanned hand.

Hoofs drumming, Bat Durston came galloping down through the narrow pass at Eagle Gulch. He spurred hard for a low overhang of rimrock. . . and at that point, a tall, lean wrangler stepped out from behind a high boulder, six-shooter in a sun-tanned hand.

"Sound alike? They should-one is merely a western transplanted to some alien and impossible planet. If this is your idea of science fiction, you're welcome to it! YOU'LL NEVER FIND IT IN GALAXY!" (Gold, 1950)

Gold implied that the content of competing magazines was ersatz, impersonating 'real' science fiction by word-substitution, and promised that *Galaxy* would provide something new. We find, however, that vocabulary is a very strongly defining characteristic of science fiction and fantasy (Figs. 2, 3).

LeGuin argued the significance of style in her essay *From Elfland to Poughkeepsie* in *The Language of the Night* (Le Guin, 1973: 146). LeGuin's examples of poor writing are more recent than Gold's, and trace modern sf borrowing to corporate and political melodrama – a fact excruciatingly familiar to anyone sitting through the interminable council meetings and trade delegation plotting of the *Star Wars* prequels. LeGuin emphasises the importance of written style, which we might expect to be significant in genre differentiation, but we found in our survey that the perceived literary value of a story is independent of genre, and the quality of characterization is paramount (Figs. 1, 7). If the quality measure is general, the implication is that categorisation of sf is independent of style considerations. It may be that the use of standard science fictional terms or concepts is sufficient to define science fiction, independent of the rich experimental narratives of writers such as Samuel R. Delany (Alterman, 1977).

3.5 Science Fiction and Postmodern Genre Theory

We argue that the classical concept of techne best describes the core of the popular categorisation of science fiction rather than being subject to a fluid and mutable historiographic process of genre change that is particularly problematic if we employ genre for real-world research outcomes. We suggest that the danger of postmodern approaches to genre definitions is that they risk obliterating the very object of their study altogether, along with any value that it can add to real-world circumstances, and it is techne that is the historically continuous core of science fiction, around which other themes, motifs and tropes orbit. Our survey findings provide strong supporting evidence for this conjecture.

Science fiction has attracted increasing academic attention as it has become more culturally pervasive. John Rieder provides a detailed academic analysis of science fiction as a popular genre from the postmodern perspective (Rieder, 2010), describing Wittgenstein's 'family resemblances', and Lofti Zadeh's notion of the 'fuzzy set' (uncited) as existing ways of describing genre (195). Rieder draws on Kincaid's interpretation of Wittgenstein to claim that sf has "no essence; no single unifying characteristic and no point of origin", asserting that sf is merely a "mutable" (193) cultural construction: "whatever we are looking for when we look for science fiction" (201,203). Further, Rieder claims that the genre does not derive "from

the qualities of the object itself" (203), but is the "rhetorical act" of "labelling" (200). Science fiction is not a "set of texts" but a matter of "using texts" (197), and, paraphrasing Damon Knight (193), states: "we can simply point to a story and say it is sf" (201). In a painstaking effort to avoid saying anything that might be remotely construed as 'essentialist,' Rieder implies that no identifying features exist in the texts themselves. Combined with the insistence that the 'rhetorical act' of 'labelling' is decisive, the act of definition becomes tantamount to, and as meaningless as, pointing at a naked emperor and claiming that he is wearing science fiction. Rieder refers to Wittgenstein's supposed "anti-essentialism" (95), which, in postmodernist terms, is equated with the relativistic view that there is no 'referent:' no common world, truth or experience to which language refers. However, philosophers have presented convincing evidence that Wittgenstein was not a relativist (Barrett, 1991; Coliva, 2010; O'Grady, 2004; Putnam, 1995), particularly in the terms conceived by postmodern theorists. O'Grady argues that Wittgenstein may have been a conceptual relativist, but although we may conceive the world through concepts, and different language groups may have different concepts, this does not deny that the 'world-in itself' exists – nor, most importantly, that truth exists (O'Grady, 2004: 332). Similarly, Kate Soper observes that, although inevitably conceived through our cultural understanding, the natural world still exists. As she drily comments: "it is not language that has a hole in its ozone layer" (Soper, 1995: 151).

O'Grady (2004), Barrett (1991) and Coliva (2010) affirm that Wittgenstein insisted on a common humanity, that our language structures – which produce our language games – spring from our common "form of life" (Wittgenstein, 1986: , PI 241). That we can understand foreign languages provides evidence of this: "The common behavior of mankind is the system of reference by means of which we interpret an unknown language" (Wittgenstein, 1986, PI 206). Wittgenstein held that it is our common human condition, our "basic physical, emotional and intellectual features which we share with all humans" (O'Grady, 2004: 328), which forms our language structures. Wittgenstein's famous remark that "if a lion could speak, we could not understand him" (PI, II: 190) illustrates this commonality: we do not share this human 'form of life' with animals (O'Grady, 2003: 328). Human beings, however, do share "one picture of the world" which is "universal" (Coliva, 2010: 21-22).

When Wittgenstein discusses the word 'game', he refers to subsets or categories of game that can be defined as having one thing in common: for example, ball games and board games; played with either a ball or a board, respectively. A category, concept or definition does not *necessarily* preclude the possibility of singular, defining features. Our everyday understanding of a board game or a ball game is not undermined because these may not have

things in common with each other, or even other games, nor is it tautological to suggest that the definition is contained in the name itself. We call it a board game because of the action of playing a game on a board. It is a helpful description of something that exists, rather than an arbitrary classification. Similarly, science fiction and fantasy fiction are subsets within the overarching category of fiction, which, as the survey which supports our findings demonstrates, do contain defining features.

Rieder refers to 'similarities', 'themes', and 'repetition' within science fiction, but is shy of saying what these might be (unsurprisingly, having insisted that the genre cannot be defined "from the qualities of the object itself" (203)). He concludes: "Definition and classification may be useful points of departure for critical and rhetorical analysis, but [...] the project of comprehending what sf has meant and currently means is one to be accomplished through historical and comparative narrative rather than formal description" (206). We suggest, however, that the historical narrative is a secondary feature of what sf has meant and currently means. The primary feature is drawn from an enduring feature of human experience.

For the genre of science fiction to remain meaningful, we propose that similarities and family resemblances must refer to *something* within the object: the science fiction text. We agree that family resemblances and fuzzy sets are useful for exploring genre definition, but with the caveat that we must apply a more contextualised reading of Wittgenstein. In contrast to Rieder, we suggest that the concept of family resemblances, and the fact that these concepts spring from our common 'form of life', can usefully inform a more empirically based approach to sf genre theory.

Our investigation indicates that the Classical origins of science and technology – embodied as techne – provide the fundamental, and enduring, characteristic of human experience that enables us as individuals to readily identify science fiction. Richard Parry states: "Aristotle refers to techne or craft as itself also epistêmê or knowledge because it is a practice grounded in an 'account' —something involving theoretical understanding" (Parry, 2014: n.p.). Parry describes how these ideas became separated in Western philosophical and scientific traditions, into the applied, and the theoretical aspects of the human world, and clarifies that "some of the features of this contemporary distinction between theory and practice are not found in the relation between epistêmê and techne." For the Greeks epistêmê and techne had common characteristics. Techne describes a way of doing, and being, which incorporates knowledge and skill, actual and theoretical, experiential and potential.

Galen (130-c.201AD) saw the human hand, the experiential human mechanism of physical creation, as not only invaluable in making tools, but those tools could be used to

extend the artistic, creative and imaginative capacity of humans beyond their physical limitations, including writing about such things:

With these hands of his, a man weaves himself a cloak and fashions hunting-nets, fish-nets and traps, and fine-meshed bird-nets, so that he is lord not only of animals upon the earth, but of those in the sea and the air also... being also a peaceful and social animal, with his hands he writes laws for himself, raises altars and statues to the gods, builds ships, makes flutes, lyres, knives, fire-tongs, and all the other instruments of the arts, and in his writings leaves behind him commentaries on the theories of them. (Galen, 2003)

Galen's description encapsulates the human physicality of techne as an integration of applied knowledge and imagination. More recently, Bernard Stiegler has described 'technics' in *Technics and Time* as "the horizon of all possibility to come and of all possibility of a future" (Stiegler, 1998: ix). He calls it: "a process of concretization" (22), and says that we should admit "the technical dynamic precedes the social dynamic and imposes itself thereupon" (67).

Science fiction, as creative writing about scientific, technology-focused and plausible worlds, may be a socio-cultural manifestation of the human concept of techne, which has been part of our experience of the world since, and before, the philosophers of ancient Greece added it to the lexicon. We use techne to describe the core of the categorisation of science fiction, not only because it can be justified by philosophical debate, but because it also mirrors the findings of our survey (Section 3.1.). We suggest that the essence of physical and mental tool-making is the core of science fiction, and the visible historical narratives of sf genre are merely the material through which this essential core, this 'star' of essence, sweeps: collecting and discarding new family members as it proceeds.

4 Implications

4.1 Survey

When asked to explain classification into science fiction and fantasy, free text responses are variable in depth and complexity, but the key word content is remarkably similar, and the words 'magic', 'science' and 'technology' dominate the responses (Figs. 1-4, Tables 1-3.). These are the substance of a core that is supported by a family of resemblances – aliens, space ships, dragons, quests – but not defined by them. The survey findings suggest there are core features of sf texts which enable their categorisation as science fiction or fantasy, and that for science fiction these are often closely associated with concepts and developments, both current and future, drawn from real science. This accords with the analysis of a previous survey which

discovered a statistically significant correlation between readers' experiences of science, scientists and science fiction (Menadue & Jacups, 2018).

From analysis of survey data, it proves possible to create a popular categorization of science fiction and fantasy without lengthy discussion of the aesthetic value or sociological basis of content. Content empirically defines science fiction and fantasy, and provides the clearest, least equivocable, and most verifiable, means of identifying popular comprehension of these genres.

4.2 Postmodernism

The danger of postmodern approaches to genre definitions is that they risk obliterating the very object of their study altogether, along with any value that it can add to real-world circumstances. Genres risk becoming arbitrary when they are divorced from the objects they are describing – affirming the need for a more practical, empirically based theory. The core of science fiction is the human embodiment of techne, and this drives an intuitive understanding of the subject. Readers are not simply pointing at texts and arbitrarily saying 'science fiction!' We suggest that what readers find most significant in defining science fiction – science and technology – is techne; the acknowledgment of the existence of an empirically based world, upon which the thought experiments and theories of science fiction are based. Once the imaginary in science fiction is actualized, it becomes history, and no longer a feature of science fiction categorisation.

Figure 8 illustrates how this core of techne is orbited by subject matter and concepts that may at any one time make up elements of the family of resemblances comprising the totality of science fiction, without dictating what may be included or excluded. The core of techne persists through time (the vertical arrow) even though fashions in science fiction, and real-world contexts of technology and science – from bone tools through to artificial intelligence – may change. Specific science fiction instances – such as Well's Time Machine, or Kubrick's HAL – are linked to changing fashions, or even technology, and are among the fuzzy-set of associated items that are included in science fiction.

Techne is empirical in the sense that science fiction refers to the experience of the existence of an empirically based world, and the empirical survey of science fiction readers

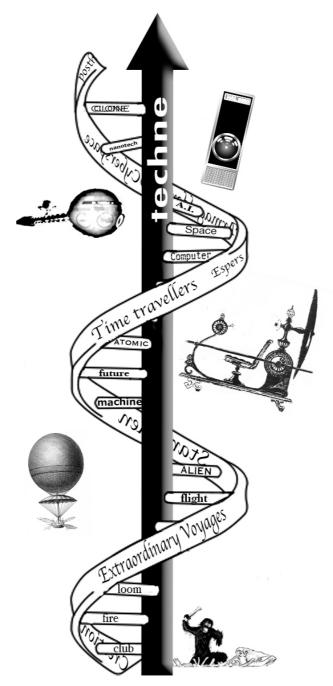


Figure 8. 'techne-fiction'

finds clear and practical categories that separate science fiction from fantasy literature. The difference between science fiction and fantasy is decided by mutually exclusive facts, and science fiction is easily recognised.

The academic definition of genres is the continuing subject of debate, and has inspired diverse FoE theories. We suggest that a reason for the multitude of academic theoretical approaches is because they tend to focus on transient surface features of the genre, and this obscures the empirical core of science fiction that general audiences find definitive. In contrast to pure research, applied research requires this more democratic definition. Wittgenstein's notion of family resemblances can explain the collection of 'things' that surround the core category classification, as well as the unproblematic retroactive classification of pre-sf work, as the family provides a way of identifying related content—not merely a set of clearly defined rules. But, it appears that underlying the way of understanding, there is a continuous, historical, presence, which explains why these categories exist. The specific terms in the context of the literature correspond well to Aristotle's use of the term 'techne' for what is commonly described as science fiction, and magic for fantasy. This practicality of popular definition has been recognised by some authors. Philip K. Dick was clearly amused by orthodox critical analysis of science fiction:

One time I read in a distinguished book of criticism on sf that in my novel *The Man in the High Castle* the pin which the character Juliana used to hold her blouse together symbolized all that which held together the themes, ideas, and subplots of the novel itself – which I hadn't known when I wrote that section. But what if Juliana, also not knowing it, had removed the pin? Would the novel have fallen apart? Or at least come open in the middle and exposed a whole lot of cleavage (which was why her boyfriend insisted she put on the pin in the first place)? (Dick, 1980)

J.G. Ballard criticised the gap between academic and non-academic interpretation of science fiction, styling the academic criticism as the "apotheosis of the hamburger," unrelated to the origin or intention of writing, or the perspective of the reader (Ballard, 1991: 11). The intention here is to provide popular definitions for science fiction and fantasy to fill that gap, ones that can be used by interdisciplinary researchers, who want to employ safety-pins that are sharp, effectual, and not merely conceptual.

5 Conclusion

The people who consume and enjoy sf are their own arbiters of what it contains, and provide robust definitions based on simple categorical indicators. Engaging the public in applied research that borrows from science fiction calls for a shared understanding of what science fiction is, and accepting this popular comprehension of the genre is key to successful research outcomes in communication, advocacy and pedagogy that employ science fiction to effect results. The categorisation of works such as Dune, and the use of the term 'science fantasy' calls upon the two clearly defined categories of science fiction and fantasy, rather than creating

something distinguished by its own terminology, and this reinforces our findings that these genres are very clearly separated in the minds of individuals. Effective use of science fiction in research that features public engagement should acknowledge the persistent cores – science/technology for science fiction, and magic for fantasy – that reflect 'the people's choice,' rather than relying on traditional academic definitions or the assertions of authors, which are not founded on empirical analysis of phenomena.

We suggest that the core characteristics of science fiction and fantasy, of techne and magic, have been reflections of a human way of thinking about the world for recorded history, and this is the human embodiment of techne, as the phenomenological experience of what it is to be human in an experiential, physically consistent and humanly modified and shaped world. This in-built comprehension of techne drives the genre categorisation of fictional works. Wittgenstein's 'family resemblance' is a twisted thread wound around a persistent core of real and specific characteristics. As John Frow, concluding his work *Genre*, suggests: "Through the use of genres we learn who we are, and encounter the limits of our world" (Frow, 2006: 144). We would suggest that who we are, and the limits of our world, are fixed in certain specific dimensions, and this is reflected in our recognition of science fiction as techne. It is a 'technefiction' of plausible unrealities, inspired by the tool-using possibilities that came from the evolution of an opposable thumb. Kubrick's ape throwing his bone club in the air (Kubrick, 1968), was not only showing us the dawn of technology, but also the dawn of science fiction.

6 Ethics Approval

Ethics approval was granted by the university human research ethics committee on 19th October 2015, approval no. H6299.

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8 Appendix

See attached file *TS Category Data.xlsx* for data used to create the Categorisation Tree presented in Fig 4., Section 3.

Index Genre	magic 1	fantasy scien	nce technology	future fiction		element		agon story	creature lik	e likely ti	/space - ravel	possible ti	me alien	happen 0			olain even	base 0	character 0	exist real	universe 0	supernatural	thing ()	human ()	rule setting	g advance		olot usua			st make	something ()	sword explore
2 F 3 SF 4 F	1 0 1	0 0 0 1 0 0	0 0 0	0 0 0 0 0 0	0 0 0	0 1 1	1	0 0 0 0 1 1	0 0 0 0 1 0	0	0 0 0	1 1 0	0 0 0 0 0 0	0 0	0	0	0 0 0 0 0 0	0 0	0 0 0	0 0 0 1 0 0	0 0 0	0 0 0	0 0	0 0	0 0 0 0 0 0	0 0	0	0 0 0 0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 1 0 0 0 0
5 SF 6 F 7 SF	0 1 0	0 1 1 0 0 0	0 0	1 0 0 0 0 1	0 0 0	0 0 0	0 0	0 0 0 1 0 0	0 0 1 0 0 0	0 0	0 0 0	0 -1 1	0 0 0 0 0 0	0 0 1	0 0 1	0 0	0 0 0 0 0 0	1 0 0	0 1 0	0 1 0 0 0 0	0 0	0 0	1 1 0	0 1 0	0 1 0 0 0 0	0 0	0 0	0 0 0 0 0 0	1 0 0	0 0	•	0 1 0	0 0 0 0 0 0
8 F 9 SF 10 F	1 0 0	1 1 0 0 0 0 -1	0 0 0	0 0 0 1 0 0	0 0 0	0 0 0	0 0 0	0 1 0 0 0 0	0 0 0 0 0 1	0	0 0 0	0 1 -1	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0	0 1 0 0 0 0	0 1 1	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 1 \end{array}$	0 0 0	0 0 0	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0	0 0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$
11 SF 12 F 13 SF	0 1 0	1 0 0 0 0 1	1 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{array}$	0 0 0	1 0 0	0 1 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	1 -1 0	0 0 1 0 0 0	0 0 0	0 0 0	0 1 0	0 1 0 1 0 0	0 0 1	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 1 & 0 \\ 0 & 0 \end{array} $	1 0 0	0 0 0	1 1 0	1 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 1 0	0 0	0 0	1 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$
14 F 15 SF 16 F	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	0 0 0	1 0 0	0 0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	1 0 0 0 0 0	0 0 0	0 0 0	-1 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0	$egin{pmatrix} 0 & & 0 & & 0 \\ 0 & & 0 & & 0 \\ 0 & & 0 & & 0 \\ \end{array}$	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0	0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$
17 SF 18 F 19 SF	-1 1 -1	-1 0 0 0 0 1	1 0 0	1 0 0 0 1 1	0 0 0	0 0 0	0 0 1	-1 0 0 0 0 1	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	1 0 0	0 0 1	1 1 0 0 0 0	0 1 0	0 0 1	0 -	1 0 -1 0 0 0	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 1 & 0 \end{array}$	1 0 1	0 0 0	0 0 1	0 0 1	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	1 0 0	•	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	1 0 0	0 0		0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$
20 F 21 SF 22 F	1 0 0	0 -1 0 0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 0 0	0 0 0 1 0 1	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	0 0 0	0 0 0	0 1 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 1 1	0 0 0	0 0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 1 \end{array}$	0 0 0	0 0 0	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0		0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$
23 SF 24 F 25 SF	0 0 0	0 1 1 0 0 0	0 0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	1 0 0	0 0 0	0 0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	$ \begin{array}{ccc} 0 & 0 \\ 1 & 0 \\ 0 & 0 \end{array} $	0 0 0	1 0 0	0 0 0	1 0 0 0 0 0	0 0 0	0 0 0	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	0 0 0	0 0 0	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 1 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0	0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$
26 F 27 SF 28 F	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	0 0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	0 0 0	0 0 0	0 0 0	0 0 0 0 0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	0 0 0	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 0	0 0 0	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	0 0 0	•	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0	0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
29 SF 30 F 31 SF	0 0 0	0 1 0 0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 0 0	0 0 1 0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 0	0 0 0	0 1 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 1 0	0 0 0 0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
32 F 33 SF 34 F	0 1 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	0 1 -1	0 0 1 0 0 0	0 0 0	0 0 0	0 1 0	0 0 1 0 0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	0 0 0	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 1 1	0 0 0 1 0 1	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 0	0 0 0	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	0 1 -1	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0	0 0	0 0 0	$egin{array}{ccc} 0 & 0 & \ 1 & 0 & \ 0 & 0 & \ \end{array}$
35 SF 36 F 37 SF	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0 0 1 0	0 0 0	0 0 0	0 0 0	-1 0 1 0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 0 0	0 0 0 0 1 0	0 0 0	0 0 0	0 0	$egin{pmatrix} 0 & & 0 & & 0 \\ 0 & & 0 & & 0 \\ 0 & & & 0 & & \end{pmatrix}$	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 0	0 0 0	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0	0 0	0 0 0	$egin{array}{ccc} 0 & 0 & \ 1 & 0 & \ 0 & 0 & \ \end{array}$
38 F 39 SF 40 F	0 0 1	0 0 0 1 0 -1	0 1 -1	0 0 1 0 1 1	1 0 0	0 0 1	0 0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 1 0 0 1 0	0 0 0	0 0 0	0 1 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 0	0 0 0	0 0 0	0 1 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 1 0		$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 1 1	0 1 1		0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
41 SF 42 F 43 SF	0 0 0	0 0 0 0 0 1	1 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	1 1 0	0 0 0	0 1 0 1 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0	0 0 0 0 0 1	0 0 1	0 0 0	0 -1 0 -1 0 0	0 0 0	0 0 0	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 1	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
44 F 45 SF 46 F	1 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0 0 -1 0	0 1 0	0 0 0	0	0 0 0 0 1 0	0 0 0 1 0 0	0	0 0 0	Ü	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 0	1 0 0	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 0	0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 1 \\ \end{array}$	0 0 0	0 0 0	0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
47 SF 48 F 49 SF	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	1 0 0 0 0 0	0	0 0 1	1	0 0 0 0 0 1	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0 1	0	0 1 0 0 0 0	0 0 0	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 1	0 1 0	0 0 0 0 0 1	0 0 1	0 0 0	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0	0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
50 F 51 SF 52 F	0	1 0 -1 1 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0 0	0 1	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	1 0 0	1	0 0 0 0 0 0	0 0 0	0	1 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	1 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1 0 0	0 0 0 0 1 0	-1 0 0	0	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0	0 0 0 1 0 1	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
53 SF 54 F 55 SF	0	0 1 1 0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	1 0 1 0 0 0	0	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0	0	0 0 0	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 1 0 0 0 0
56 F 57 SF 58 F	1	0 0 1 1 1 0	1 1	0 0 1 0 1 0	1	0 0 0	1	0 0 0 0 1 0		0	0 0 1	1	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 1	1	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $			0 1 1 -1	0	0 0 0	0 0 1	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	1	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
59 SF 60 F 61 SF	1 0	0 1 0 -1 0 1	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0 0	0	0 1 0 0 0 0	0 0 0 0 0 1	0	0 0 0	-1 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 1	0 0 0	0 0 0	0 0 1	0 0 0	1 0 0	1 0 1	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
62 F 63 SF 64 F	1 0 0	1 -1 0 0 0 0	0	0 1 0 0 0 0	0	0 0 0	0	0 1 0 0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	0	0 0 0	0 0	0 0 0	0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0 0 0 0	0 0	0	0 0 0 0 0 0	0	0 0	0 0 0 0 0 0	0 0 0	0 0 0 0 0 0
65 SF 66 F 67 SF	1 0	0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0	0	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0 0 1	0 0 0	0 0 0	0 0 1	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0	0 0 0 0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
68 F 69 SF 70 F	0 0	1 -1 0 1 1 -1	1 0	0 1 0 0 0 0	0	0 0 0	0	0 0 0 0 1 1	0 0 0 0 0 0	0	0 1 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 1	0	0 1	0 0 0 0 0 0	1 0 0	0 1 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1 0 0 0 0 0	0 0 0	1 0	0 0 0 0 0 0	0	0 0	0 0 0 0 0 0	0 0 0	0 0 0 0 0 0
71 SF 72 F 73 SF	0 0 0	0 0 0 0 0 0	0	0 0 0 0 1 0	0	0 0 0	0	0 0 0 0 0 0	0 0	0	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	0 0	0 0 0 0 0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0 0 0	0 0 0	0	0 0 0 0 0 0	0	0 0	0 0 0 0 0 0	0 0 0	0 0 0 0 0 0
74 F 75 SF 76 F	0 0 0	0 0 0 1 0 -1	0	0 0 1 1 0 0	0	0 0 1		0 0 0 0 1 0	0 1	1	0 0 0	1	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	1 0 0	1	0 0 1 0 1 0	0	0 0 0		0 1 0	0 0 0	0 0 0	0 0 0	0 0 0 0 1 0	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	1		0 1 0 0 1 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$

Index (Genre	magic	fantasy	science	technology	future 1	fiction s	pace el	lement w	vorld dr	agon stor	y creature	e like likely	time/space - travel	possible	time alien	happen	think	book ex	xplain (even bas	se character	exist re	al universe	e supernatural	thing hu	man ru	le setting a	advance	genre p	lot usual	different	general j	just make	something	sword ex	aplore
77	SF F	0	0	0	0	0	0	0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0	0 0	0	0 0		0	0	0 (0	0	0 0	0	0	0 0 0	0		0
78 79	SF	0	0	0	0	0	0	0	0	0	0 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 (,	0	0	0 (0 0	0	•	0 0	0	•	0 0	0		0
80 81	F SF	1	1	0	0	0	1	0	1	1	$\begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}$	0	0 0	0	0	0 0	0	0	0	0	0 0	0	0 0		1 0	0	0 (0	0	1	0 0	0	0	1 0 0	0	0	0
82	F	0	0	0	0	0	0	0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0	0 0	0	0 (0	0	0	0 (0	0	0	0 0	0	0	0 0	0	0	0
83 84	SF F	0 1	0	1 0	1 0	1 0	0	0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	1 0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 (0	0	0 (0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	1
85	SF	0	0	0	1	0	1	0	1	0	0 1	0	0 0	0	1	0 0	1	0	0	0	0 1	0	0 0	,	0	0	0 (0	1	0	0 1	0	0	0 0	0		0
86 87	F SF	0	0	0 1	0	0 0	1 0	0	1	0	0 1 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	-1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	1	0	0 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	,	0	0 0	0 () 0) 0	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0		0
88	F	0	1	-1	0	0	0	0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0	0 0	0	1 (0	0	0 (0	0	0	0 0	0	0	0 0	0		0
89 90	SF F	0	0	-1	0	0	0	0	1	0	0 1	0	0 0	0	0 0	$\begin{array}{ccc} 0 & 1 \\ 0 & 0 \end{array}$	0	0	0	0	0 0	0	0 0		0	0	0 () 0	0	0	0 0	0	0 0	$ \begin{array}{ccc} 0 & 1 \\ 0 & 0 \end{array} $	0		0
91 92	SF	0	0	1	0	0	0	0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0 0	0	0	0	0	0 0	0	0 () 1 1 0	0	0	0 1	0	0	0	0 1	0	0	0 0	0		0
93	SF	0	0	1	1	0	0	0	0	1	0 0	0	0 0	0	0	0 0	0	0	0	1	0 0	0	0 1	0	0	0	0 () 0	0	0	0 1	0	0	0 0	0		0
94 95	F SF	0	1	0	0	0	0	0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 1 \end{array}$	0	1 0 0	0	0	$\begin{array}{ccc} 1 & 0 \\ 0 & 0 \end{array}$	0	1	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 (,	0	0	0 () 1	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0		0
96	F	0	1	0	0	0	0	0	0	0	0 1	0	0 0	0	0	0 0	0	0	0	0	0 0	1	0 0		0	0	0 (0	0	0	0 0	0	0	0 0	0		0
97 98	SF F	0	0	0	0	0 0	0	0	0	1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 1	0	0	$\begin{array}{ccc} 1 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	0	0	0 0	0 () 0	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array} $	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	0
99	SF	0	0	1	0	0	0	0	0	0	0 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0 1	0	0	0	0	1 0	0	0 0	,	0	0	0 (0	0	0	0 0	0	0	0 0	0		0
100 101	SF	0	0	1	1	0	0	0	0	0	0 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	-1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	1	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0		0	0	0 () 0	0	0	0 0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
102 103	F SF	1	0	0	0	0	0	0	1	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	1 0	0	0	0 0	0	0	0	0	0 0	0	0 0	,	1 0	0	0 (0	0	0	0 0	0	0	0 0	0		0
103	F	0	0	0	0	0	0	0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0	0 0	0	0 (,	0	0	0 () 0	0	0	0 0	0	0	0 0	0		0
105 106	SF F	0	0	0	0	0	0	1	0	0	0 0	0	0 0	0	0	0 1 0	0	0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 (0	0	0 (0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
107	SF	0	0	0	0	0	0	0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0	0 0	0	0 (,	0	0	0 (0	0	0	0 0	0	0	0 0	0	0	0
108 109	F SF	0	0	0	0 1	0 1	0	0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 1	0	0	0 0	0 (0	0	0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \end{matrix}$	1	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0		0
110	F	1	1	0	0	0	0	0	0	0	0 0	1	0 0	0	0	0 0	0	0	0	0	0 0	0	0 0	,	0	0	0 (0	0	0	0 0	0	0	0 0	0		0
111 112	SF F	0 1	0 1	0	0	0	0	0	0	0	0 0	0 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0 1 0 -1	0	0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	,	0	0	0 (0	0	0 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
113 114	SF F	0	0	1	1	1	0	0	0	0	0 0	0	0 0	0	0 -1	0 0	1	0	0	0	0 0	0	0 () 1	0	0	1 (0	1	0	0 0	0	0	0 0	0		0
	SF	0	0	1	0	0	0	0	0	0	0 1	0	0 0	0	0	0 0	0	0	0	0	0 0	0	0 () 0	0	0	0 () 0	0	0	0 0	0	0	0 0	0		0
116 117	F SF	0	0	-1 0	0	1	0	0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0	-1 0	1 0	0	0	0	0	0 0	1	0 0		0	0	0 (0	0	0	0 0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
118	F	0	0	-1	0	0	0	0	0	0	0 0	0	0 0	0	1	0 0	0	0	0	0	0 0	0	0 (0	0	1	0 (0	0	0	0 0	0	0	0 0	0	0	0
119 120	SF F	0	-1 0	1 -1	0	1 0	0	0	1 0	0 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0 0	0 1	$\begin{array}{ccc} 0 & 1 \\ 0 & 0 \end{array}$	0	0 0	,	0	0 0	0 (0	0	0 0	0 0 1 0	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0		0
121	SF	0	0	1	0	0	0	0	0	0	0 0	0	0 0	0	0	0 0	0	0	1	0	0 0	-	0 0		0	Ü	0 (, 0	1	•	0 0	0		0 0	0	•	0
122 123	F SF	0	0	0	-1 0	0 0	0	0	0	0	$\begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	1 0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		0 0		0	•	0 (0 0	-1 0		$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	0 0	0	•	0
	F SF	0	0	0	0	0	0	0	0	•	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 1	0	$\begin{array}{ccc} 0 & 0 \\ 1 & 1 \end{array}$	0	0		0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		0 0		0	•	0 (,	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
126	F	1	0	0	0	0	0	0	0	0	1 0	0	0 0	0	0	0 0	0	0		0	0 0		0 (0	-	0 (0		0 0	0		0 0	0		0
127 128	SF F	0	0	1	0	0	0			•	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0		0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		0 0		0		0 (0		$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
129	SF	0	0	0	0	0	0	0	0	1	0 1	0	0 0	1	1	1 0	0	0	1	0	0 0	0	0 (0	0	0	0 1	0	0	0	0 0	0	0	1 0	0	0	0
	F SF	0	0	1 0	0	0 1	0	0	1	1	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0	1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		0 (0	•	0 1	0	0	-	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
132	F	0	0	-1	0	0	0	0	0	•	0 0	0	0 0	0	1	0 0	0	0	0	0	0 0	0	0 0	0	0	0	0 (0		0 0	0	0	0 0	0	0	0
133 134		0 1	0	0	0	0 0	0				$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0			$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		0 0		0		0 (0		$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
135	SF	0	0	0	0	0	0	0	0	•	0 0	0	0 0	0	0	0 0	0	1		0	0 0	0	0 1	0	0		0 (0	0	0 0	0	0	0 0	0		0
136 137	F SF	0	0	0 1	0	0 0	0 0		-	•	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	1 0		0	0 0 1 0		0 1		0	•	0 (0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0		0
138 139	F	0	0 1	0 1	0	0	0		0 0	•	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0		-1 0	0 0		1 (0	-	0 (0		$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
	SF F	1	1	-1	0	0	1		0	-	0 0	0	0 0	0	1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0	1	$\begin{array}{ccc} 1 & 0 \\ 0 & 0 \end{array}$		0 1) 1	0		0 (0		$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array} $	1		1 0	1 0		0
141 142	SF F	0 1	0	1 1	1 1	0	0		0	•	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0		0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		0 0	0 0	0		0 (0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
143		0	0	0	1	0	0				0 0		0 0	0	0	0 0	0	0			0 0		0 0) 1	0		0 (1		0 0	0		0 0	0		0
	F SF	1	0	0	0	0	0	1	1	•	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0		0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	-	0 1		0	•	0 (,	0	•	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
146	F	0	0	1	0	0	0	0	0	0	0 1	0	0 0	0	0	0 0	0	1	0	0	0 0	0	0 (0	0	0	0 (0	0	0	0 0	0	0	1 1	0	0	0
147 148	SF F	1 1	0	0	1 0	1 -1	0		0	•	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	1 1 0 0	0	1 0		0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		0 0		0	-	0 (0	-	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0
149	SF	0	0	1	0	0	0	0	0	0	0 0	0	0 0	0	0	0 0	0	0	0	0	0 0	0	0 0	0	0	0	0 (0	0	0	0 0	0	0	0 0	0	0	0
150 151	F SF	0	0	-1 0	0 1	0 1	0	0		0	$\begin{array}{cc} 0 & 0 \\ 0 & 0 \end{array}$		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0 0 0 1	0 0	0			$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		0 0		0		0 (0		0 0 1 0	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0		0
152	F	1	0	0	1	0			0	1	0 0		0 0	0	-1	0 0					0 0			0	0		0 (0	0		0		0 0	0		0

Index Genre magic fantasy							time/space - travel					-																word explore
153 SF -1 1 154 F 1 0 155 SF 0 0	0 1 0 0 0 1	0 1 0 0 1 0	$egin{array}{cccc} 0 & & 0 & & & & & & & & & & & & & & & $	0	0 1 0 0 0 0 0 0 0 0	$egin{array}{ccccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$	0 0 0	0 0 0 0 0 0	0 0 1	0	0 0 0 0 0 0	0	0 0 0 0 0 0	0 1 0	0 0 0 1 0 0	0 0 0	0 0 0	0 0 0	0	0 0 0 0 0 0	0 0 0	0 1 0 0 0 0	0 0 0	0 0 1	0 0 0 0 0 0	0 0 0	0 0 0	0 0 0 0 0 1
156 F 1 0 157 SF 0 0 158 F 1 0	0 0 0 1 -1 0	0 0 1 0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0 0 1	0 0 1 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	$\begin{array}{ccc} 0 & 1 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0	$ \begin{array}{cccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 1 0 0 0	0 0 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0 0 0	0 0 0	0 0 0	0 0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0 0 0	0 0 0	0 0 0	0 0 0 0 0 1	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $
159 SF 0 0 160 F 1 1 161 SF 0 0	0 1 0 0 0 1	0 0 0 0 1 1	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0	0 0 0 0 0 1	$egin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 1	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0 0 0 1	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0 1	0 0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
162 F 1 0 163 SF 0 0 164 F 0 0	-1 0 0 0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0	0 0 0 0 0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	$\begin{array}{ccc} 0 & 1 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 0 1 0 0 0	1 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 0 0	0 1 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 1 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$
165 SF 0 0 166 F 0 0 167 SF 0 0	0 1 0 0 0 0	1 0 0	0 0 0	0 0	0 1	0 0 0 0 0 0	0 0	0 0 0	0	0	0 0 0	0	1 0 0 0	0	0 0 0 0 0 0	0 0	0 0	1 1 0	0	0 1 0 1	1 0	0 0 0 0 0 0	0	0	0 1 0 0 0 0	1 0	0 0 0	0 0 0 0 0 0
168 F 1 0 169 SF 0 0	0 -1 1	0 0 0 1	0 0 0	0 0	0 0	0 0 0 0 0 0 0 0 0	0	0 0 0	0	0	0 0 0	0	0 0 0	0	0 0 0 0	0	0	0	0	0 1 0 0	0	0 0 0	0	0	0 0 0 0	0 1	0	0 0 0
170 F 1 0 171 SF 0 0 172 F 0 1	0 0 0 1 0 0	0 0 0 0	0 0 1 1 0 1	1 0	0 0	0 0 0 0 0 0 0	1 0	0 0 0 0	0	0	0 0 0 0 0	0 0	0 0 0 0	0	0 -1 0 0 0 0	0 0 0	0	1 0	0 0	0 0 0 0 0	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0 0	0 0 0 0 0 0	1 0	0 0	0 0 0 0 0 0
173 SF 0 0 174 F 0 0 175 SF 0 0	$egin{array}{ccc} 0 & & 0 & & & & & & & & & & & & & & & $	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0	0 0 0 0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 0 0 0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0 0 0 1	0 0 0	0 0 0	0 0 0	0 0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $
176 F 0 0 177 SF 0 0 178 F 1 0	0 0 0 0 -1 0	$egin{array}{ccc} 0 & 0 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & \end{array}$	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	1 1 1	0 1 0 1 0 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 1 0	$egin{array}{ccc} 0 & 0 \\ 1 & 0 \\ 0 & 0 \\ \end{array}$	0 0 0	0 1 1	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 1 0 0 0 0	1 0 0	0 -1 1 1 0 1	0 0 0	0 0 0	1 1 1	0 0 0	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	1 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
179 SF 0 0 180 F 1 1 181 SF 0 0	1 0 -1 0 1 1	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & \end{array}$	0 0	0 0 0 0 0 0 0	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 1 & 0 \end{array}$	0 0 0	0 0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	1 0 0 0 0 1	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 1 & 0 \end{array}$	0 0 0	0 0 0	0 0 1	0 0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 1	0 1 0 0 0 0	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
182 F 1 0 183 SF 1 0 184 F 1 0	-1 -1 1 1 -1 0	1 0 1 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0 1	0 0 0 1 0 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0	0 0 0 0	0 0 0	0 1 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 1 & 0 \end{array} $	0 1 0	0 -1 0 1 0 1	0 0 0	0 0	0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0 0 0	0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $
185 SF 0 0 186 F 1 0	1 0 0	0 0 0 0 0 1	0 0 0 0 0 0	0 0	0 0 0	0 0 0 0 0 0 0 0 0 0 0	0	0 0 0	0	0	0 0 0 0	1 0	0 0 0 0 0 0 0	0	0 0 0 0 0 0	0 0	0	0	0	0 0 0 0 0 0	0	0 1 0 0 0 0	0	0	0 0 0 0 0 0	0 0	0 0 0	0 0 0 0 0 0
188 F 1 0 189 SF 0 0	-1 0 1 1	0 0 1 0 1 0	0 0 0 0	0 0	0 0	0 0 0 0 0 0 0 0	0 0	0 0 1 0	0	0	0 1 0 0	0 1	0 0 0 0	0 0 0	0 0 0 0 0	0 1	0	1 0	0	0 0 0 0	0	0 0 0 0 0	0	0	1 0 0	0 0	0	0 0 0
190 F 1 0 191 SF 0 0 192 F 0 1	-1 0 0 1 1 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0 1	0 0 0 1 0 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	0 0 0 0	0 0 0	0	0 0 0 0 1 0	-1 0 0	0 0 0	0 0 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0 0 0	0 0	0	0 0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0 1 0	0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $
193 SF -1 0 194 F 0 1 195 SF 0 0	0 1 0 -1 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0 0	0 0 0 0 0 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0	0 0 0 0 1 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0 0	0 0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	0 0 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $
196 F 1 0 197 SF 0 1 198 F 1 0	-1 -1 1 0 0 0	0 0 1 0 0 0	$\begin{array}{ccc} 0 & 0 \\ 1 & 1 \\ 0 & 0 \end{array}$	0 0 0	•	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$			$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 1	$ \begin{array}{ccc} 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{array} $	0 0 0	0 0 0	0 0 0	0	0 0 0 0 0 1	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	•	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 1 & 0 \end{array}$	0 0 0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
199 SF 0 1 200 F 0 1 201 SF 0 0	$ \begin{array}{ccc} 1 & & 0 \\ 0 & & 0 \\ 0 & & 1 \end{array} $	0 1 0 1 0 0	$\begin{array}{ccc} 0 & 1 \\ 0 & 0 \\ 0 & 0 \end{array}$	1	0 0 1 0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	1 0 -1 0 0 0	0	0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 1 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	0 0 0	0 0 0	0 0 0	0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 1 1 1 0 0	0 0 0	0 0 0	0 1 0 0 0 0	0 0 0	0 0 0	$egin{pmatrix} 0 & & 0 \\ 0 & & 0 \\ 0 & & 0 \\ \end{bmatrix}$
202 F 1 0 203 SF 0 0 204 F 0 0	0 0 1 0 -1 0	0 0 0 0	0 0 0 0		0 0 0 0 0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0	0 0 0 0 0 0	•	0	0 0 0 0	0	0 0 0 0 0 0	0 0	0 0 0 1 0 -1	0 0	0 0	0 0	•	0 0 0 0 1 0	0 0	0 0 0 0 0 0	0	0 0 0	0 0 0 0 0 1		0 0 0	0 0 0 0 0 0
205 SF 0 0 206 F 1 0 207 SF 0 0	0 1 0	0 0 0 0 0 0	1 0 0 1 0 0	0	0 0	0 0 0 0 1 0 0 0 0	0	0 0 0 0 1 0	•	0	0 0 1 1 0 0	0	0 0 1 0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0	1 0	0	0 0 0	0 0 0	0 0 0 1 0 0	0	0 0 0	0 0 0 0 0 0	0	0 0 0	0 0 0 0 0 0
208 F 0 0 209 SF 0 0	0 -1 1 0	0 0 1 0	0 0 1 0	1 0	0 0	0 0 0 0 0 0		0 0 1 0		1 0	0 0 0 0	0	0 0 0 0	0	0 0 0 0	0	1 0	1 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0 0	0	0	0 0 0	0	1 0	0 0 0
210 F 1 0 211 SF 0 0 212 F 0 0	$egin{array}{ccc} 0 & & 0 \\ 1 & & 0 \\ 0 & & 0 \\ \end{array}$	0 0 1 0 1 0	$egin{array}{ccc} 0 & & 0 \\ 0 & & 0 \\ 0 & & 0 \\ \end{array}$	0	0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	0 0 1 0 -1 0	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	1 0 0	0 -1 0 0 0 0	0 0 0	0 0 0	1 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0 0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $
213 SF 0 0 214 F 1 0 215 SF 0 0	$egin{array}{ccc} 0 & & 0 & & \ 0 & & 0 & & \ 0 & & & 0 & & \ \end{array}$	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0	$ \begin{array}{ccccc} 0 & 0 & 0 \\ 1 & 0 & 0 \\ 0 & 1 & 1 \end{array} $	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 1 & 0 \end{array}$	•	0	$egin{pmatrix} 0 & & 0 \\ 0 & & 0 \\ 0 & & 0 \\ \end{matrix}$	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 0 1	0	0 1 0 0 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	1 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$
216 F 0 0 217 SF 0 0 218 F 0 0	$egin{array}{ccc} 0 & & 0 & & \ 0 & & 0 & & \ 0 & & 0 & & \ \end{array}$	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & \end{array}$	$egin{array}{ccc} 0 & & 0 \\ 0 & & 0 \\ 0 & & 0 \\ \end{array}$		0 0	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$	0 0 0	-1 0 0 0 0 0	-	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	0 0 0	0 0 0	1 0 0	0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0 0 0	$egin{pmatrix} 0 & & 0 \\ 0 & & 0 \\ 0 & & 0 \\ \end{bmatrix}$
219 SF 0 0 220 F 0 0 221 SF 0 0	0 0 -1 0 1 1	0 0 0 0	0 0 0 0 0 0	0	0 1 0 1	0 0 0 0 0 0 0 0 0	0 0 0	0 0 0 0 0 0	0	1 0	0 0 0 0 0 0	0	0 0 0 0 0 0	0 0	0 1 0 1 0 0	0	0 0	0 1 0	0	0 0 0 0 0 0	0 0	0 0 0 0 0 0	0	0 0 0	0 0 0 0 0 0	0	0 0 0	0 0 0 0 0 0
222 F 0 0 223 SF 0 0	-1 -1 0 0	0 0 1 0	0 0 0	0	0 0	0 0 0 0 0 0	0 0	0 0	0	0	0 0 0 0	-1 0	0 0 0	0	$\begin{array}{cc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0	0	0 0 0 0	0	0 0 0	0	0	0 0 0	0	0	0 0 0
224 F 0 0 225 SF 0 0 226 F 0 0	0 0 0 0 0 0	-1 0 1 1 1 1	0 0 0 0 0 0	1	0 1 1 0	0 0 0 0 0 0 0 0 0	0 1 0	0 0 1 1 -1 0	0	0	0 0 0 0 0 0	0	0 0 0 0 0 0	0 0 0	0 0 1 1		0 0 0	0 0 1	0	0 0 0 0 0 0	0 0 0	0 0 0 0 0 0	0	0 0 1	0 0 0 0 0 0	0	0 0 0	0 0 0 1 0 0
227 SF 0 0 228 F 0 0	1 1 -1 -1	0 1 0	$\begin{array}{ccc} 0 & & 0 \\ 0 & & 0 \end{array}$		-	0 0 0 0	0	1 0 0 0			0 0 0	-	0 0	0	0 0	0	0	0		0 0 0	0	0 0	0	0	0 0		0	0 0

Index Genre magic fantasy science techno	ology future fiction	space element world	dragon story creature like likely	time/space - travel	possible time a	lien happen	think book	explain even	base character	exist real universe	e supernatural	thing human	rule setting ad	ance genre pl	ot usual differen	general just mak	se something sword explo
229 SF 0 0 1 0		0 0 0	0 0 0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0	0 0			0 0	0 0 0	
230 F 0 0 -1 0 231 SF 0 0 1		$\begin{array}{cccc} 0 & 0 & 1 \\ 0 & 0 & 0 \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \end{array} $	0 0 0 1	1 0 1 0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	1 0 0 0	0 0 0		$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
232 F 1 0 0 0	0 0	0 0 0	0 0 1 0 0	0	0 0	0 0	0 0	0 0	1 0	0 0 0	0	1 0	0 1	0 0 0	, ,	0 0 0	0 0 0
233 SF 0 0 0 1 234 F 1 0 0	0 0	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0		$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
235 SF 0 0 0 0 236 F 0 0 0 0	-	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$	0 0 0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 1 0	0	0 1	0 0	0 0 0	0 0	0 0 0	0 0 0
236 F 0 0 0 0 237 SF 0 0 1 1	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	1 0 0	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	0 0	0 0	0 0	0 0	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0 0) 0 0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
238 F 1 0 0 0 239 SF 0 0 0		0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	0 0	0 0	0 0	0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
239 SF 0 0 0 0 240 F 1 0 0		0 1 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	0 0	1 0	0 0	0 0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	1	1 0	0 0	0 0 0		0 0 0	0 0 0
241 SF 0 0 0 0 242 F 0 0 0	$\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	1 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0 0 1 -1 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0 0	0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
243 SF 0 0 1 0		0 0 0	0 0 0 0 0	0	1 0	0 0	0 0	0 0	0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	0 0	0 0 0		0 0 0	0 0 0
244 F 0 0 0 0 245 SF 0 0 1	-	0 0 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 1	0 0	1 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$	0	0 1 0	0 0 0	0 0 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
246 F 1 0 0		0 0 1	0 0 0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 1 0	0	0 0	0 0	0 0 0		0 0 0	0 0 0
247 SF 0 0 0 1 248 F 1 0 0 -1	0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	1 0 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
249 SF 0 0 1 1	0 0	0 0 0	0 1 0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0	0 0		0 0 0	0 0 0
250 F 1 1 0 0 251 SF 0 0 0 1	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	-1 0 0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0 0	0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
252 F 1 0 0 0		0 0 0	0 0 0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 0 0	0 1 0
253 SF 0 0 1 1 254 F 0 0 0 0	1 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0 0	0 0	0 0 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
255 SF 0 0 0 0		1 0 0	0 0 0 0	1	0 1	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0	0 0 0	, ,	0 0 0	0 0 0
256 F 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	$\begin{array}{ccc} 0 & 0 \\ 1 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{matrix}$	0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \end{matrix}$	0 0	0 0 0	0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
258 F 1 0 0 -		0 0 0	0 0 0 0 0	0	0 0	0 0	0 0	0 0	0 1	0 0 0	0	0 0	0 0	0 0	0 0	0 0 0	0 0 0
259 SF 0 0 1 1 260 F 0 1 0	0 0	$egin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{matrix}$	0	$\begin{array}{ccc} 0 & 1 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$, ,	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
261 SF 0 -1 0		0 0 0	0 0 0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0	0 0 0		0 0 0	0 0 0
262 F 0 1 0 0 263 SF 0 0 1 0		$egin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{matrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 1 0	0 0 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
264 F 0 0 0	0 0	0 0 0	0 1 1 0 0	0	0 0	0 0	0 0	0 1	0 0	0 0 0	0	0 0	0 0	0 0 0		0 0 0	0 0 0
265 SF 0 0 0 1 266 F 1 0 -1	0 0	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	-1 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \end{array}$	0	0 0 1 1	0 0	0 0 0	0 1	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
267 SF 0 0 0 0 268 F 1 0 0	-	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 1	1 0	0 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	$\begin{array}{cccc} 1 & 1 & 0 \\ 1 & 1 & 0 \end{array}$	0	1 1	0 0	0 0 0	, ,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
268 F 1 0 0 0 0 0 269 SF 0 0 1 0		0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	$\begin{array}{cccc} 1 & 1 & 0 \\ 0 & 0 & 0 \end{array}$	0	$\begin{array}{ccc} 1 & 1 \\ 0 & 0 \end{array}$	0 0	0 1 0		0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
270 F 0 0 -1 0 271 SF 0 0 0		$egin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
271 SF 0 0 0 0 272 F 0 0 0		0 0 0	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	0 0	0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0		-	0 0 0		0 0 0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$
273 SF 0 0 1 1 274 F 0 1 -1 0	1 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{pmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ \end{pmatrix}$	0	1 0	1 0 0 0	$\begin{array}{ccc} 1 & 0 \\ 0 & 1 \end{array}$	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 1 0 0 -1 0	0	0 0	0 0	0 0 0		0 0 0	0 0 1
275 SF 0 0 0 0	0 0	0 0 0	0 0 0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0	0 0 0		0 0 0	0 0 0
276 F 0 0 0 0 277 SF 0 0 0 1	0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	0 0	0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0		0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
278 F 1 0 0 0		0 0 0	0 0 0 0 0	0	0 0	0 0	1 0	0 0	0 1	0 1 0	0	0 0	0 0	0 0	0 0	0 0 0	0 0 0
279 SF 0 0 1 1 280 F 1 0 -1 -1		$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 1 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0		-		0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
281 SF 0 0 0 0	0 0	0 0 0	0 1 0 0 0	0		0 0	0 0	0 0	1 0	0 0 0	0		-		0 0	0 0 0	
282 F 1 0 0 0 283 SF 0 0 1 1	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 1 \end{array}$	$\begin{array}{cccc} 0 & 0 & 0 \\ 1 & 0 & 0 \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0 1	$\begin{array}{ccc} 0 & 0 \\ 1 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$egin{pmatrix} 0 & 0 \\ 0 & 0 \end{matrix}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 1 \end{array}$	0		-	-	0 0 0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	
284 F 1 0 0 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0	-	0 1	-	0 0 0	0 0 0	0 0 0
285 SF 0 0 0 1 286 F 0 0 0 0		1 0 0	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \end{matrix}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \end{array} $	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \end{array} $	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0	-	0	0 0 0	0 0 0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	
287 SF 0 0 1 0 288 F 0 0 -1 0		0 0 0	$egin{pmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 \\ \end{bmatrix}$	0	0 0	0 0	0 0	1 0 -1 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0 0 0	0		-		0 0 0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	
288 F 0 0 -1 0 289 SF 0 0 1		0 0 1	0 0 0 0 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	-1 0 0 0	0 0	$\begin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0	-	-	-	0 0 0	0 0 0	
290 F 1 0 0 0 291 SF 0 0 1 1	0 0 0	$\begin{array}{cccc} 0 & 0 & 1 \\ 1 & 0 & 0 \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	-1 0 0 0	0 0	$\begin{array}{cccc} 1 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0		-		0 1 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
292 F 1 0 0 0	-	0 0 0	0 0 0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0	-			0 0	0 0 0	
293 SF 0 0 1 1 294 F 0 0 0 0	0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	1 0 0	0 1 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0 0 0 -1 0	0		0 0	-	0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
295 SF 0 0 0 1	1 0	1 0 0	0 0 0 0	1	0 1	0 0	1 0	0 0	0 0	0 1 1	0	0 0	0 0	0 0	0 0	0 0 0	0 0 0
296 F 1 1 0 0 297 SF 0 0 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 1 & 0 \\ 0 & 0 \end{array}$	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0		-		0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
298 F 0 0 1 0	0 0	0 0 0	0 0 0 0 0	0	-1 0	0 0	0 0	0 0	0 0	0 1 0	0	0 0	0 0	0 0	0 0	0 1 1	0 0 0
299 SF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	0	1 0 -1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	1 0 -1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0				0 0 0	0 0 1 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
301 SF -1 0 1 0	0 0	0 0 0	0 0 0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 0 0	0 0 0
302 F 1 1 -1 0 303 SF 0 1 1 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	$egin{pmatrix} 0 & 0 \\ 0 & 0 \end{matrix}$	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \end{array} $	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{matrix}$	0		-		0 1 0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	
304 F 1 1 0		0 0 0	0 0 0 1 0	0		0 0	0 0	1 1	0 0	0 1 0	0			0 0		0 0 0	

Index Genre magic	fantasy scien	nce technology	future fictio	n space e	element wo	rld dragoi	ı story c	reature like likely	time/space - travel	possible ti	me alier	happen	think boo	k expla	in even ba	se characte	exist real	universe	supernatural	thing h	numan r	rule setting	advance	genre p	lot usual	different	general ju	st make	something	sword explore
305 SF 0 306 F 1	0 0 0 0	-	0 0 0	1 0	0 0) 1	0	0 0 0 0 0 1 1	0	1 0	0 0 0	0 1	0 0 1 0	0	0 (1	0 1 0 1	0	0	1 1	0	0 0 0	0	0	0 0 0	0	0 0	0	0 1	0 1 0 0
307 SF 0 308 F 1 309 SF 0	0 1 0 0	1 0 1	$ \begin{array}{cccc} 1 & 0 \\ 0 & 0 \\ 0 & 1 \end{array} $	0	0 0		1 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	1 0 0	0 0 0 1 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0 0	0 0 0 1 0 -1	0 0	0	0 1	0 0	0 0 0 0 0 1	0 0	0 0	$\begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0 0		0 0 1	$egin{array}{ccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{array}$
310 F 0 311 SF 0	0 0 0 0 0 1	0	0 1 0 0	0	1 0	0 0	0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	-1 0	$\begin{pmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	1 0	0 0	0	1 (0 0	0 0 0	0	0	0	0	0 0 0	0	1 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0	0 0		0	0 0 0
312 F 1 313 SF 0	0 0 -1 1	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	0 0	0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 1 & 0 \end{array}$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0 1	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0 0 0 1	0	0 0		0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$
314 F 0 315 SF 0	0 0 0 1	0	0 1 0	0		0 0	0	0 0 0 0	0	0	0 0 0	0	0 0	0	0 (0 0	0 0 0	0	0	0	0	0 0 0	0	0	0 0	0	0 0		0	0 0 0
316 F 1 317 SF 0 318 F 0	0 0 0 1 0 0	0	0 0 1 0	0	0 0	0 0	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0	0 (0 0	0 1 0 0	1 0 0	0	0	0	0 0	0	0	$\begin{pmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 1 0 0	0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{array}$
319 SF 0 320 F 1	0 1	1	0 0 0	0	1 (0 0	0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0	0 0	0	0 (0 0	0 0 0	0	0	0 0 1	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	1 0	0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0 1	0 0	0	0	0 0 0
321 SF 0 322 F 1	0 1 0 0	1	0 0 0	0	0 0	0 0	0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	1 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0 0	0	0 0	0 0	0 0 0	0	0	0 0	0	0 0 0	0	0	0 0 0 1	0	1 0 0		0 0	0 0 0
323 SF 0 324 F 0	0 1 0 0	0	1 0 0	0	1	1 0	0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0 0	0	0 0	0 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0	0	0 0 0
325 SF 0 326 F 1 327 SF 0	0 1 0 0 0 0	0	$\begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 0 & 1 \end{array}$	0	1	1 0 1 1	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 1	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0	1 (0 0	0 0 1 0 1 1	0 0 0	0	0	0	0 0	0	0 0 1	0 0	0	0 0	0	0 0 0	$ \begin{array}{ccc} 0 & 1 \\ 0 & 0 \\ 0 & 0 \end{array} $
328 F 1 329 SF 0	0 0 0 0 1	-	0 0 1	0	0 0	0	1 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	1 0 0	0	0 0	0 0	0 1 0 0	0	0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0	0	0 1 0
330 F 1 331 SF 0	0 0 0 1	0	$\begin{array}{ccc} 0 & 1 \\ 0 & 0 \end{array}$	0 1	0 0	0 0	0	$\begin{array}{ccc} 1 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0	1 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0 0	1 1 0 1	0	0	1 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$
332 F 1 333 SF 0 334 F 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0 0	0	1 0 0 0 0 1 0	0 1	0 -1	0 0 1 0	0	0 0	0	0 0	0 0	0 1 0	0	0	0 1	0 1	0 0 0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0		0 1 0	1 0 0
335 SF 0 336 F 0	0 1 0 0	0	1 0 0	0	0 0	0 0	0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	-1 0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0	0 0	1 0	0 (0 0	0 0 0	0	0	0	0 0	0 0 0	0	0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0	0 0	0 0	0	0 0 0
337 SF 0 338 F 1	0 1 0 0	0	1 0 0 1	0	0 0	0 0	0	0 0 0 0	0	0	0 0 0	0	0 0 0 0 1	0	0 0	0 0	0 0 0	0	0	0	0	0 0 0	0	0	0 1 0	0	0 0		0	0 0 0
339 SF 0 340 F 0	0 0 0	-	0 0 0	0	0 0	0 0	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0 0	0	0 0	0 0	0 1 0	0	0 1	0	0	0 0 0	0	0	0 0 0	0	0 0	0	0	0 0 0
341 SF 0 342 F 1 343 SF 0	$ \begin{array}{ccc} 0 & 1 \\ 0 & 0 \\ 0 & 0 \end{array} $		0 1 0 1 1 0	0	0 0	0 0	0	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0	0 (0 0	0 0 0 1 0	0 0 0	0	0	0	0 0	0	0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0	0 0	0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{array}$
344 F 1 345 SF 0	0 0 0 0		0 0 0	0	0 0	0 0	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	0 0 0 1	0	0 0 0	0	0 0	0 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array} $	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array} $	0	0 0		0	0 0 0
346 F 1 347 SF 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0 0	0	$\begin{array}{ccc} 1 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0	0 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	0 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0		0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \end{matrix}$
348 F 0 349 SF 0	1 0 0 0 0 0	1	$ \begin{array}{ccc} 0 & 0 \\ 1 & 0 \\ 0 & 0 \end{array} $	0	0 0		0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	0	$ \begin{array}{cccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 1	0 0 1 0 0 0	0 0	0 0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 1	0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0	$egin{pmatrix} 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ \end{array}$	0 0 0	0 0		0 1 0	$egin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$
350 F 1 351 SF 0 352 F 1	0 0 0	1	0 0	0	0 0	1 0	0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	•	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0	0 0	0	0 (-	1 0 0 0	0 0	0	0	0	0 0 0	0	0	$ \begin{array}{ccc} 0 & 1 \\ 1 & 0 \\ 0 & 0 \end{array} $	0	0 0		0	0 0 0
353 SF 0 354 F 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0		0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0		$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0 0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0		0 0 0 0	0 1	0 0		0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \end{matrix}$
355 SF 0 356 F 1 357 SF 0	0 1 1 -1	0	1 0 0	0	0 1 0 0	1 0 1 0	0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	0 0 0 0 1 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	-1	0 (0	1 0	0	0 1 0	0 1 0	0	0 1 0 1	0 0 0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0	0	0 0 0
357 SF 0 358 F 1 359 SF 0	0 1 1 0 0 0	0	$ \begin{array}{cccc} 1 & 1 \\ 0 & 1 \\ 0 & 0 \end{array} $	0	1 0	0	0 0	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$	0	0 0 0	$\begin{pmatrix} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0		0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0	0 0 1	0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0	1	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{bmatrix}$	0 0 0	0 0 0 0 0 0 0 0	0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{array}$
360 F 0 361 SF 0	1 0 0	0	0 1 1 0	0	0 0	-	0	0 0 0 0	0	0	0 0 1 0	0	0 0 0	0	0 (0	0 0	0	0	0	0	0 0 0 0	0	0	0 0 0	0	0 0	0	0	0 0 0
362 F 1 363 SF 0	0 0	1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	1 (0	0	$\begin{array}{ccc} 1 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	1 (0	0 0	0	1 0	1 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$
364 F 1 365 SF 0 366 F 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	1	0 0 0 0 1 0	0 1 0	0 0	0 1 0 1 0	0 0 0	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$	0 1 0	0	0 0 1 1 0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 1 \\ 1 & 0 \end{array}$	0 0 1	0 0 0	0 0 0	0	$egin{pmatrix} 0 & & 0 \\ 0 & & 0 \\ 0 & & 0 \\ \end{pmatrix}$	0 1	0	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0 0 0 0 0 0	0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{array}$
367 SF 0 368 F 0	0 1 0 0	1	1 0 1 0	0	1 0		1 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	1	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	1 0	0 0 0 0 0 1	1 0	1 (0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	1 0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0	0 0	0	1 0	0 0 0
369 SF 0 370 F 1	0 1 0 0	0	$\begin{array}{ccc} 1 & & 0 \\ 0 & & 0 \end{array}$	0 0	0 0	0	0 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	-	$\begin{array}{ccc} 1 & & 0 \\ 0 & & 0 \end{array}$	0 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	1	0 0	0	0 0	0	0 0	0 1	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	0	0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \end{matrix}$
371 SF 0 372 F 0	0 0 0	0	0 0 0	0	0		0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0		0 0 0	0	0 0	0	0 (0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	0	0	0 0 0	0	0	0 0 0	0	0 0	0	0	0 0 0
373 SF 0 374 F 1 375 SF 1	0 1 0 1 0 1	0	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 1 & 0 \end{array} $	0 0	0 0	0	0 1 1	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 &$	1 0 0		$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0			$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	0 1 0	0	0 0 1 0 0 0	0 1 0	0	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0 0 0 0 0 0	0	0 0 0	$egin{array}{ccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{array}$
376 F 0 377 SF 1	0 0	0	0 0 0	0	1 0	0	1 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	0 1 0 0	0	0 0 0 0 1	-		0	0 0	0	0	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array} $	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array} $	0	0 0	0	0	0 0 0
378 F 1 379 SF 0	0 0 0	0	0 0 0	0	0	0 0	0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	1	0	0 0 0	0	1 0 0	0	0 0	0		0	0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	0 0 0	0	0 1 0 0	0	0	0 0 0
380 F 1	0 0	0	0 0	0	0	0	0	0 0 0	0	0	0 0	0	0 0	0	0 0	0	0 0	0	0	1	0	0 0	0	0	0 0	0	1 0	0	0	1 0

Index Genre magi	ic fantasy s	cience technology	future fiction	n space e	element wo	ld dragon	story cre	ature like likely	time/space - travel	possible t	me alie	n happen	think bo	ook expl	lain even b	ase characte	er exist real	universe	supernatural	thing h	numan r	ule setting	advance	genre pl	lot usual	different	general just	make s	omething s	word explore
381 SF 0 382 F 0	0	0 0 0	0 0	0	0 0	0	0	0 0 0 0	0	0	0 0 0	0	0	0 0	0	0 0 0	0 0	0	0	0	0	0 0 0	0	0	0 0	0	0 0	0	0	0 0 0
383 SF -1 384 F 1	0	0 0 0	0 0 0	0	0 0		0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0 0	0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0 0	0	0	0	0	0 0 0	0	0 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0	0	0 0 0
385 SF 0 386 F 1 387 SF 0	0	0 0 0	0 0	0	0 0	0	0	$\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$	0	0	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 1 \end{bmatrix}$	0	0	0 () 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0 0 0 0	0	0	0	0	0 0	0	0 0	0 0	0	0 0	0	0	0 0 0 0 0 0
388 F 1 389 SF 0	0	0 0	0 0 0	0	0 0	1	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	$\begin{bmatrix} 0 & 1 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}$	0	0 0	0 0	0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0 0 0	0	0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0 1	0	0 0	0	0	0 0
390 F 1 391 SF 0	0	0 0 1 0	0 0 1 0	0	1 0 0	0	0	0 0 0 0	0	-1 1	0 0 0 0	1 0	0 0	0 0	0 0	0 0 0	0 0 0	1 0	0	1 0	0	0 0 0	1 0	0 0	0 0	0	0 0 0	0	0	0 0 0
392 F 1 393 SF 0	0	0 0 1 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 1	0 0	0	0	$\begin{matrix}0&&0&&0\\0&&0&&0\end{matrix}$	0 1	0	0 0 0 1	0	0	0 0	0 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	$\begin{array}{cc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$
394 F 1 395 SF 0	0	0 -1 0 1	1 0 0	0	0 1 0 0	0	0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	1 0	0 0	0 0 0	0 0 1 1	0	0	0	0	0 0 0	0	0 0	0 1 0	0	0 0 0	0	0	0 0 0
396 F 1 397 SF 0 398 F 1	0 0 0	0 -1 1 1 0 0	1 0	1	1 0	0	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 1 0	0	0 0 1 1 1 0	0	0 0	0 (0 1 0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0 0 0 0 0	0 0 0	0	0	0 1 0	0 0	0	0 0	0 0 1 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0 0 0	0 0 0 1 0
399 SF 0 400 F 1	0 1	0 1 0	0 0 0	1 0	0 0	· ·	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 0	0	0 1 0	0	0 0	0 0	0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0 0 1 0	0	0	0	0	0 0 0 1	0	0 0	0 0	0	0 0 0	0	0	0 1 0
401 SF 0 402 F 1	0 0	1 1 -1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	1 1 0	0	1 0	$\begin{array}{cccc} 0 & & 0 & & 0 \\ 0 & & 1 & & 0 \end{array}$	0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0 0	0 0	1 0 0 0	$\begin{array}{cc} 0 & 0 \\ 0 & 1 \end{array}$	0	0	1 0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	0 1 0 0
403 SF 0 404 F 0	0	0 1 0	1 0 0	0	0 0	0	0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0	0	1 0 0 0	0	0 0	0 0	0 0	0 0 0	0 0 0 1	0	0	0	0	0 0 0	0	0 0	0 0 0	0	0 0 0	0	0	0 0 0
405 SF 0 406 F 1 407 SF 0	0 1 0	$egin{array}{cccc} 0 & & 0 & & & & & & & & & & & & & & & $	0 0	0	0 0	0	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0 () 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0 0 0 0 0	0 0 0	0	0	0	0 0	0	0 0	0 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0 0 0	0 0 0 0 0 0
408 F 0 409 SF 0	0	0 0 1 1	1 0 1 0	0	0 1 0 0	0	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}$	0	0 0	0 0	0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0 0 0	0	0	1 0	0	1 0 0 0	0	1 0	0 1	1 0	0 0 0	0	0	0 0 0
410 F 0 411 SF 0	0	$egin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{matrix}$	$\begin{array}{ccc} 0 & 0 \\ 1 & 0 \end{array}$	0 0	0 0	0	0 1	$\begin{matrix}0&&0&&0\\0&&0&&0\end{matrix}$	0 0	0 1	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0 0 1	0	0	0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ \end{bmatrix}$
412 F 0 413 SF 0	0	0 0 1	0 0 0 1	0 1	0 1 0 1	0	0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0 0	0 0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0 -1 0 0	0	0	0	0	0 0 0	0	0 0	0 0 0	0 1	0 0 1 0	0 1	0	0 0 0
414 F 1 415 SF 0 416 F 0	0 0	-1 0 0 0 0 0	0 0 0 0	0	1 0	•	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	1 1 -1	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0 0) 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0 0 1 0	0 0 0	0 0 0	0	0	0 0	0	0 0		0	$ \begin{array}{cccc} 1 & 1 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0 0	0 0 0 0 0 0
417 SF 0 418 F 1	0	0 0 0	0 0 0	0	0 0	0	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	0 0 1 0	0	0 0	0 0	0 0	$egin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ \end{pmatrix}$	0 1 0 0	0	0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0 0	0 0	0	0 0 0	0	0	0 0 0 0
419 SF 0 420 F 0	0 1	1 0 -1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	1 0 1 0	0	1 0	$\begin{matrix}0&&0&&0\\0&&0&&0\end{matrix}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0 0	0 0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array} $	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0 0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$
421 SF 0 422 F 1	0	1 0 0	0 0 0	1 0	0 0	0	0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 1 & 0 \end{array}$	1 0	0	1 0 0 0	0	0	0 0	0 0	0 0 0	0 0 0 1	0	0	0	1 0	0 0 1 0	0	0 0	0 0 0	0	0 0 0	0	0	0 0 0
423 SF 0 424 F 0 425 SF 0	0 0 0	0 0 0 0	0 0 0	0	0 0	0	0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0 0 1	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}$	0	0 0	1 (,	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	$ \begin{array}{ccc} 0 & 0 \\ 0 & 1 \\ 0 & 0 \end{array} $	0 0 0	0	0 1 0	v	0 0	0 0	0 0	0 0	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 1 0	0 1 0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $
426 F 0 427 SF 0	0	0 0 0	0 0 0	0 1	0 0 0	•	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 1	0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 1 \end{array} $	0	0	0 0	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 -1 0 1	0	0	1 0	0	0 0 0 1	0	0	0 0	0	0 0 0	0	0	0 0 0
428 F 0 429 SF 1	0	-1 0 0 0	0 0 1 1	0 0	0 1 0 1	0 0	0 1	$\begin{array}{cccc} 0 & & 0 & & 0 \\ 0 & & 1 & & 0 \end{array}$	0 0	0 1	0 0 1 0	0 1	0	0 0	0	$ \begin{array}{ccc} 0 & 1 \\ 0 & 0 \end{array} $	0 -1 0 0	0	0	0 1	•	0 1 0 1	0		$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$		0 1	0 0 0 1
430 F 1 431 SF 0		$egin{array}{ccc} 0 & & 0 \\ 0 & & 0 \\ 0 & & 0 \\ \end{array}$	0 0 1 0 0 0	0 1	1 0 1 0	0	1 1 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 1	0	0 0 1 1	0 0 0	0 0	0 0 0 0	0	$egin{pmatrix} 0 & & 0 \\ 0 & & 1 \\ 0 & & 0 \\ \end{bmatrix}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	1 0 0	0 0 0	0	0 0 0	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0		0 0 0	0 0 0
432 F 0 433 SF 0 434 F 1	0	0 0 0 1 0 0	1 0 0	1	0 0	•	-	$egin{array}{cccc} 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 \\ \end{array}$	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0 0	0 0	0	$egin{array}{ccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0	0 0	0	$ \begin{array}{cccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0	$ \begin{array}{ccc} 1 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $
435 SF 0 436 F 1	0	1 1 -1 0	0 0 0	0	0 0	-	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array} $	0	0 0	0 0) 1	0 0 0	0 0 0	1 0	0	0	0	0 0 0	0	0	0 0	0	0 0 1 0	0	0	0 0 0
437 SF 0 438 F 0	0	$\begin{array}{ccc} 0 & & 0 \\ 0 & & 0 \end{array}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0	0	$\begin{matrix}0&&0&&0\\0&&0&&0\end{matrix}$	0	-1	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	0 0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$			0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0	0 0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$
439 SF 0 440 F 1 441 SF 0	0	$egin{array}{ccc} 0 & & 0 & & & & & & & & & & & & & & & $	0 0 0 0 0 1	0	0 0 0 1 0 0	0	0	$egin{array}{cccc} 0 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 0 \\ \end{array}$	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0	0 0 1 0	0	0 0 0 0 1 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 1 \end{array}$	0 0 1	0 0 0	0 1 0	0	$egin{pmatrix} 0 & & 0 \\ 0 & & 0 \\ 0 & & 0 \\ \end{pmatrix}$	0 0 0	1 ($ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0	0 0 0	0 0 0 0 0 0
441 SF 0 442 F 0 443 SF 0	0	0 0 0 1	0 1 0 0	0	0 0	0	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	-1	$egin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0		0 0	0	1 0 0 0		-	0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0	0	0 0	0	0 0 0	0	0	0 0 0
444 F 1 445 SF 0	0	0 0 1 1	0 0 1 0	0	0 0	1	-	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array} $	0	0 0	0 0	0	0 0 0	0 0 0	0	1 0	1 0	0	0 0 0 1	0	0	0 0	0	0 0 0	0	0	0 0 0
446 F 1 447 SF 0	0	-1 0 1 0	0 0 0 1	0	0 0	0	0	0 0 0 0	0	1	0 0 0	0	0	0 1	0	0 0 0	0 0 0	0	1 0	1	0	0 0 0	0	0	0 0	0	0 0 0	0	0	0 0 0
448 F 1 449 SF 0 450 F 0		$egin{array}{ccc} 0 & & 0 & \\ 0 & & 0 & \\ 0 & & 0 & \\ \end{array}$	0 1 0 1 0 0	0	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	0 1 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0	1	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	1 0 0	0 0	0 1 0 0 0 0) 1	$egin{pmatrix} 0 & & 0 & & \ 0 & & 0 & & \ 0 & & 0 & & \ \end{pmatrix}$	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array}$	0 0 0	0 0 0	1 0	0	$egin{pmatrix} 0 & & 0 \\ 0 & & 0 \\ 0 & & 0 \\ \end{pmatrix}$	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} $	0 0 0	0 0 0 0 0 1	1	1 0	0 0 0 0 0 0
450 F 0 451 SF 0 452 F 0	1	1 0 0 0	1 0 0	0	0 1	0	0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 0	0	$ \begin{array}{ccc} 0 & 0 \\ 1 & 0 \\ 0 & 0 \end{array} $	0 0	0	0 0 0 0	0	$egin{array}{cccc} 0 & 0 & 0 \\ 1 & 0 & \end{array}$	1 1 0 -1	0	0	0	0	$\begin{pmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{pmatrix}$	0 0	0	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}$	0	0 1 0 0	0	0	0 0 0 0
453 SF 0 454 F 0	0	0 0 0	0 1 0 0	0	0 0	0	0	$\begin{matrix}0&&0&&0\\0&&0&&0\end{matrix}$	0		0 0 1 0	0		0 0	0 1	0 0 0	0 1 0 1	0	0	0	0	$\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$	0	0 0	0 0	0	0 0	0	0	0 0 0
455 SF 0 456 F 0		0 1 0	0 1 0 1	1 0	0 0		1 0	0 0 0 0 1 0	0		0 0 0		•	0 1	0 0	1 0 0 0		0	0	0 1		0 0 0	0		0 0	0	0 0		0	0 0

Iı	ndex G	enre	magic	fantasy	science	technology	y future	fiction	space	element	world	dragon	story c	reature	like lik	ely time/spac travel	possib	le time	alien	happen	think	book	explain	even	base o	haracter	exist	real un	niverse su	pernatural	thing	human	rule s	etting ad	lvance	genre	plot u	sual d	ifferent	general	just	make	something	sword	explore
4	157	SF	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	458	F	1	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	159	SF	0	0	0	1	0	0	1	0	0	0	0	0	0) 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
4	460	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
4	461	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	462	F	0	0	0	0	0	1	0	0	0	0	0	0	0	0 0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0
4	463	SF	0	0	1	0	1	0	1	0	0	0	0	0	0) 1	1	1	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	164	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	1	0	0	-1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Categorisation Data For Table 4: Responses to 'What makes a story science fiction?' (SF) and 'What makes it fantasy?' (F). Coded as 1 = is present, 0 = not mentioned, -1 = not present. Data is in Paired Sets of Responses

NOTE: A word frequency analysis of the full responses was used to identify the categories to be coded. These were consolidated based on similarity e.g. 'possible' and 'plausible' consolidated to 'possible', 'magic' and 'magical' consolidated to 'magic'. Multiple use of terms in one response were recorded as one instance for categorisation purposes. Occurrence as a genre label alone was discounted.

Index Timestamo FANTASY	SCIFI	Genre magir	ic fantasy sci	ience techno	alogy future fiction	snace eleme	ent world dra	agon story crea	ature like likely time/s	snace-travel noss	ible time alien ba	onen think book ex	lain even hase	character exist re	al universe sun	ernatural thing h	man rule setting	advance genre	nlot usual differe	ent general just make	something sword explore
1 42684.90589	Rather a negative definition, but where magic is not possible, and there is an emphasis on science, the future and a focus on space and other planets - although all these elements don't necessarily have to be present at the same time.	SF -	-1 0	1	0 1 () 1	1 0	0 0	0 0 0	0	1 1 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
2 42884-90589 The creation of worlds in which magic is possible, where tropes such as the quest, the adventure, the journey are explored, along with the concepts of good and ex 42865-66541 incorporating creatures such as dragons or orcs; the story contains magical elements.	ill Within the realms of possibility using scientific elements or scenarios.	F SF (1 0 0	1	0 0 0	0 0	0 1 1 0	0 0	0 0 0	0	1 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 1
4 Accessors 1 incorporating detailes soon as diagons or troe, are story contains inagical elements. 5 42685.87207	Something with a future-orientated setting, use of different language or terms to describe things (language either made up or based on real science/technical terms) often dystopian or utopian.	SF (0 0	1	0 1 () 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 1	0 0	1 0	0 1	0 0	1 0 0	0 0	1 0 0 (0 0 0
A story that has fantastical creatures or animals as characters, something non-human and involving capabilities that humans can't do themselves (whether magic o 42685.87207 some other type of mystical power). A sense of the make-believe and good vs evil.		F.	1 1	0	0 0 0	0	0 0	0 1	1 0 0	0	-1 0 0	0 0 0	0 0 0	1 0	0 0	0 1	1 0	0 0 0	0 0	0 0 0 1	1 0 0
7 42685.99556 Some forms of magic could be a science we do not yet understand but others are just a construct for the author to use for a fantasy story. Depends on how good the author is in convincing one or if he even tries or needs to try. Robert Holdstock's Mythago Wood shows how it can be done convincingly so you believe that fantasy.	If you think the science fiction you are reading could actually happen it could well be science fiction. e is	SF (0 0	0	0 0 1	1 0	0 0	0 0	0 0 0	0	1 0 0	1 1 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 0 0	0 0 0
8 42685.99556 not fantasy. 9 42686.13627	To me, science fiction is based, however loosely, around what is or may be possible, according to our current understanding of physics and nature.	F SF (1 1 0 0	1	0 0 0	0	0 0	0 1 0 0	0 0 0 0	0	0 0 0 1 0 0	0 0 0	0 1 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 1 0 0 0 0 0	0 0 0
Fantasy to me is where there is a sense of remove from the laws of nature that we believe we know. It may therefore include what is likely to be impossible, based current understandings of science. It may also be where imagination is given freer rein than to a tying in with functional reality, such that there is an elaboration of			0 0		0 0 0) 0	0 0	0 0	0 1 1		-1 0 0	0 0 0	0 0 1	0 0	4 0	0 0	0 0		0 0	0 0 0 0	
10 42686.13627 what we know, as well as a stepping over of traditional boundaries.	Again, Science Fiction encompasses things for me which are "that which can be". An example of something where this gets confused is The Saga of Seven Suns. In this, Humans have a known role in a universe which otherwise contains some fantasy elements, but the humans are bound by the limits of technology even if the other contains the same of the same that is the same that the same that is the same that th			-1	0 0 0	, ,	0 0	0 0	0 1 1	Ü	-1 0 0	0 0 0	0 0 1			0 0		0 0	0 0	0 0 0 0	0 0 0
11 42686.26998 For me the simplest differential in definition comes down to "that which can be" and "that which cannot be". We will never have magic in our world, so even if we we		SF (0 1	0	1 0 0	0	1 0	0 0	0 0 0	0	1 0 0	0 0 0	0 1 0	0 0	0 1	0 1	1 0	0 0 0	0 0	0 0 0 0	1 0 0
to become technologically superior, then it simply will never exist. Anything in science fiction is theoretically possible given sufficient time, evolution or whatever. The 12 42666 26998 are obviously books which start off being fantasy which turn into science fiction (Anne McCaffrey, i'm looking at you!). At its heart, it's the vibe. 13 4266 2915	Evolution of science based inventions or themes.	F SF	1 0	0	0 0 1	0	0 1	0 0	0 0 0	0	-1 1 0 0 0 0	0 0 1	0 1 0	0 1	0 0	0 1 0 0	0 0	0 0 0	0 0	1 0 0 0	0 0 0
 42686.2915 Fantasy is when elements of the novel are not relastic or possible. le include mythical creatures, super powers 42687.04545 		F (0 0	0	0 0 0	0 0	1 0	0 0	1 0 0 0 0 0	0	-1 0 0 0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
16 42887.04545	A mechanism is postulated to explain the mechanics or workings of a process or effect, such as "tachyon flux" or "unobtainium" (the single most stupid mechanism e posited in all of SF&F, thanks James Cameron). It can also simply be set in the future, an alternate universe, or the far past (as via time travel). If dragons & castles		0 0	0	0 0 0	0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
17 42687.28572	present, then the difference is in whether they are magic (fantasy) or aliens (SciFi) and whether the castles are magical (fantasy) or feudal (SF). Yes, "any sufficiently advanced technology is indistinguishable from magic" and yet the significant point is whether it is _viewed_ as magic or as technology.		-1 -1	0	1 1 (0	0 0	-1 0	0 0 0	1	0 1 1	0 0 0	1 0 0	0 0	0 1	0 0	0 0	0 1 0	0 0	1 0 0 0	0 0 0
No mechanism is postulated to explain the mechanics or workings of a process or effect, beyond perhaps "it happened as if by magic" or "the magical properties of 18 42687 28572	Seeing as how I have been taught that alternative history is a form of science fiction, I guess it is just a way of telling stories that makes you look at the world in a wa		1 0	0	0 0 0	0	0 0	0 0	0 0 0	0	0 0 0	1 0 0	-1 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
	that doesn't tweak out out people who are annoyed by magical thinking. Something takes us outside of our known universe and introduces us to possibilities that may us see our own lives and societies more clearly by observing other lives and societies that don't exist outside our imagination. Its also a place to test out our scientif	ke C																			
19 42687.44219 Maoic that has no basis in science. When you have to just have faith or believe. That works great when you are a kid, to bring back Tinkerbell, but as adults we need	theories and how we might manage our humanity around our mechanization. We are human and natural, but (arguably) changing the planet that made us I guess also a way of trying to tell our future. Where in the hell are we going?	tis SF -	-1 0	1	0 1 1	0	0 1	0 1	0 0 0	0	1 0 0	0 1 0	0 0 0	0 1	0 1	0 1	1 0	0 0 0	0 0	0 0 1 1	0 0 0
20 42687.44219 to be able to connect the dots. 21 42687.72827	Science fiction stories might happen one day	F SF (1 0 0 0	-1 0	0 0 0	0	0 0	0 0 0 1	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 1 0 0 0	0 0 0
22 42687.72827 Fantasy stories could never happen in reality 23 42688.48914	Based in science with time travel and space	F (0 0	1	0 0 0	0 1	0 0	0 1	0 0 0	0	0 0 0	1 0 0	0 0 0	0 0	1 0	0 0	0 0		0 0	0 0 0 0	0 0 0
24 42688.48914 Fantastical creatures, locations and plots. 25 42688.79422 26 42688.79422		SF (0 0	0	0 0 0		0 0	0 0	1 0 0 0 0 0 0 0 0	0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0	0 0	0 0	0 0 0 0 0 0	0 0	0 0 0	0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0
27 42688.79889 28 42688.79889	Lawrench to a transport of the Mills	SF (0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 0 0 0 0 0	0 0 0
29 42699.00637 Fantasy tends to focus on heroes, fighting things like dragons, and in general is less deep and meaningful than science fiction. However, I can see that some fantas of 42699.00637 could be very insigniful and well written. So yes, the distinction is a bit blurned.	I guess it has to have some science in it! y	SF (0 0	1	0 0 0	. 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	U 0	0 0	0 0	0 0	0 0	0 0 0 0	0 0 0
30 420800057 Count be very singgriou and well written. So yes, the distinction is a bit clumed. 31 42889,19628 32 42889,19628		SF (0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
33 42689.33453 Generally, I see fantasy as having very little or very rudimentary technology involved and no reference whatsoever to other planets, descending/regressing from mo	I see Science Fiction, even if it involves magic, swords and dragons, as having some reference to more advanced technology at some point in the world's past or present - or future so long as that future has a reference point within the book	SF	1 0	0	1 1 (0	0 1	1 0	0 0 0	0	0 0 0	0 0 1	0 1 0	0 0	0 0	0 0	0 0	0 1 0	0 0	0 0 0 0	0 1 0
advanced technologies or linking to other technological races/planets .																					
But there is a huge cross-over and I am happy to accept that, and even get pleasantly surprised by some books that appear to be Fantasy but end up having a Sci- 34 42689.3453 revelation 35 42689.4153		F (0 0	0	-1 0 0	0	0 0	0 0	0 0 0	0	0 0 0	0 0 1	0 1 0	0 0	0 0	0 0	0 0	0 -1 0	0 0	0 0 0 0	0 0 0
35 42693.4153 Dragons and swords 37 42693.41655	no dragons Some imagined societal evolution of our own. Like - this could actually be us in the future ! Fantasy could be in another place or time or could be right here right now.	F (0 0	0	0 0 0	0 0	0 0	1 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 1 0
Less fairies more space ships I love fantasy as well as sci fi It is for me, lev grosman (I would include Patrick rothfuss if he freaking finished the king killer 38 42689.44665 chronicles) oooh and Neil gaiman vs Ian banks / and some others like Kim Stanley r (Mars trilogy)		F (0 0	0	0 0 0) 1	0 0	0 0	0 1 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
39 42889.47064 Fantasy generally involves strange creatures, customs and dress that could be past future of present. Often also involves magic or sorcery. Science fiction can incline these elements but generally involves imaginedscientific or technological advances on contemporary human technology. This allows many different what if scenaric		SF (0 0	1	1 1 (, ,	0 0	0 0	0 0 0	U	1 0 0	0 0 0	0 0 0	0 0	0 0	0 0	1 0	0 1 0	0 0	1 1 0 0	0 0 0
40 42689 47064 to be pursued. 41 42689 52135	A story with unreal elements that is primarily concerned with evaluating technological, intellectual, or moral implications of those unreal elements.	F SF (1 0	-1 0	-1 1 1 1 0 0	0	1 0	0 0	1 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	1 1 0 0 0 0 0 C	0 0 0
42 42699.62135 A story with unreal elements that is primarily moral or emotional in content, e.g. heroic, adventurous, epic storytelling 43 42699.76248 Magic, supernatural, god and the devil	Science based, even if fantastically advanced.	SF (0 0	1	0 0 0	0 0	0 0	0 1	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	-1 0 0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
45 42690.91506 Mages, witches, pointy hats and dragons on the cover, usually with a buxom young lady chained to some rock or being attacked by / saved from said dragon.	Ursula K Le Guin covers! Excellent. Planets, spaceships, excellent, exciting stuff like that.	SF (0 0	0	0 0 0	1	0 0	0 0	0 1 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
They key point is that I am interested in our future and Fantasy that I have seen is not dealing with that and not offering insights, inspiration, and solutions for it, so f 46 42690.91506 me it becomes less relevant and less attractive as a valuable way to spend my limited time. 47 42691.11472	or Futuristic, aliens, soaceshios	F (0 0	0	0 -1 (0 0	0 0	1 0	0 0 0	0	-1 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 1	0 0 0 0	0 0 0
48 42691.11472 Non standard scenarios / worlds / characters 49 42691.19417	Space travel, spaceships, light speed, lots of physics based mechanics/story elements. Aliens, lots of planets, galaxies, universes etc. Lasers/guns/supernova.	F (0 0	0	0 0 0	0 1	0 1	0 0	0 0 0 0 0 0 0 0 0	0	0 0 0	0 0 0	0 0 0	1 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
Lack of advanced technology. Technology is based on magicold mechanical ways. Swords and sorcery, no guns, lasers etc. Typical high fantasy races: human, ell dwarf, gnome, halflings, cross etc. Typical Adventure/coming of age plot travelling across the world. Based on a single world only or multiple 'planes', no outer 50 42691.19417 spacetime travel.		F .	1 1	0	-1 0 (1 -1	0 1	0 0	0 0 0	1	0 -1 0	0 0 0	0 0 1	0 0	0 0	0 0	1 0	0 -1 0	1 0	0 0 0 (0 0 0
51 42691.22239	Sci-fi books I believe have to (at least loosely) adhere to scientific laws/theories we know of in our own lives. Sci-fi simply expands on the potential of those ideas. Fantasy makes up its own.	SF (0 -1	1	0 0 0) 0	0 0	0 0	0 0 0	0	1 0 0	0 0 1	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 1	0 0 0
52 42691.22239 Fantasy I believe comes from creating a world that observes any rules you can make up about it. 53 42691.23444	Magical feats explored through technological or scientific lens, societies and cultures derived from real societies and cultures, technological creatures that do not yet exist but could, examination of societal trends and possible outcomes.	F (0 0	0	0 0 0	0	0 1	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 1	0 0 0	0 0	0 0 0 1	0 0 0
42691.23444 Magical realms outside of the real one, invented religions and cultures, mythic or fantastical creatures that do not exist in realism. 42691.30065	exist out count, examination of societal tierios and possible outcomes.	F SF (1 1 0	0	0 0 0	0 0	0 0	0 0	1 0 0	0	0 0 0	0 0 0	0 0 0	0 1	-1 0 0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
56 42691.30065	I think that sci fi comes under fantasy but only becomes sci fi when it focuses on space and tech. Not necessarily in a futuristic sense but in a way that is different to	F (0 0	0	0 0 0	0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
57 42691.3532	normal. I count the Discworld novels as sci fi too though because there are different realms and the way that science works in the Discworld is totally different to us. They apply magic scientifically and study it the way we study parts of science so I've always found it quite sci fi despite not focusing on weird and wonderful technology.	gy. SF	1 1	1	1 1 () 1	0 1	0 0	0 0 0	0	1 0 0	0 1 0	0 0 0	0 0	1 0	0 0	0 0	0 0 0	0 0	1 0 0 0	0 0 0
I think anything that can exist outside of our real world. I think that so if can be a form of fantasy as it's about not being part of everyday life. So magic, futuristic tecl special control of the properties		F	1 1	0	1 1 () 1	0 1	1 0	0 0 0 0 0 0 0	1	0 0 0	1 1 0	0 0 0	0 1	-1 0	0 1	0 0	0 0 0	0 0	1 0 0 0	0 0 0
 42691.40169 42691.40169 magic versus science, violating the basic tenants of what is physically possible 	anything extra planetary, outside of human history/experience, anything outside of what is clearly possible scientifically now but might be possible in decades Aside from a few troces it tries t contrav a universe run by the laws of science in a reasonable way and extrapolating the impacts on humanity and outlure based upo	F ·	0 0	1 -1	0 0 0	0 0	0 0	0 1 0	0 0 0	0	1 0 0 -1 0 0	0 0 0	0 0 0	0 0	0 0	0 1 0 0	1 0 0	0 0 0	0 0	0 0 0 0	0 0 0
61 42691.57644	Aside from a new tropes it tries it portray a universe run by the laws of science in a reasonable way and extrapolating the impacts on numarity and culture based upo- science-like premise.	se (0 0	1	0 0 0) 0	0 0	0 0	0 1 0	0	0 0 0	0 0 0	0 0 1	0 0	0 1	0 0	1 0	0 0 0	0 0	0 0 0 0	0 0 0
It must contain magic and fantastic magical creatures to be fantasy. If they try to explain away the magic with pseudoscience it ruins the mythos as a fantasy story and a likely garbage as science fiction. 62 4269157544																					
52 42691.57964 63 42691.57966 64 42691.57966		SF (0 0	0	0 0 0	0	0 0		0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0		0 0	0 0 0 0	0 0 0
65 42691.59145 66 42691.59145 magic	scientific principles	SF (0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0 0 0 0	0 0 0
67 42691.61676 Magic. The fundamental rules of physics/worldbuilding are based around magic or inborn gifts without scientific explanation. Vampires caused by a virus = science	There is a systematic explanation for how things work that can be connected to how things work in reality. You can get "there" from "here" mentally, without needing alternate dimensions.				0 0 0			0 0	0 0 0			0 0 0						0 0 0		0 0 0 0	
68 42691.61676 fiction; vampires caused by who-knows-what = fantasy.	I come down on the line that Darko Suvin does, though I use an inversion of his logic. He claims that "cognitive estrangement" is the primary locus of the genre, but out more weight on the logic of the "novum" as the defining characteristic of the genre. The novum must be so imbrigated within the text that to remove it is to		1 1	-1	0 0 1	1 0	0 1	0 0	0 0 0	0	0 0 0	0 0 0	0 0 1	0 0	0 0	0 0	0 1	0 0 0	0 0	0 0 0 0	0 0 0
	fundamentally aller the narrative.																				
	The Strange Case of Dr. Jekyll and Mr. Hyde/ is not SF because if you were to replace the elixir that he drinks (an experiment gone awry) with an alchemical creatic the logic of the text would not alter. He would still be caught in the crossfire of heterodox vs. orthodox science (to borrow Willis for a moment). Meanwhile, if you rem	ove																			
	or aller the root of Moman on the Edge of Time! (the technologies which divorce reproduction from the heterosexual union and allow for randomized replication), yo fundemenally aller the narrative— no longer is any of the technology that are both a cause and effect of the original practice (organ transfers, the family units, pronout the inter-dimensional traveler) valuely, and the whole novel collapses.	18,																			
	Or, in a line, if the science isn't critical to the narrative, it isn't SF. If the science determines the narrative—it's SF.																				
69 42691.63996		SF (0 0	1	1 0 0	0	0 0	0 0	0 0 0	1	0 0 0	0 0 0	0 0 0	1 0	0 0	0 0	0 0	0 0 1	0 0	0 0 0 0	0 0 0
I would default to what Luckhust and Willis have to say about this—that SF is grounded on a particular kind of rationality that is a result of the dissemination and professionalization of science in the nineteenth century, while fantasy is going to gesture back more to the preternatural and alchemical—it will have a basis in the																					
mythic. More coherently, perhaps, fantasy has a logic that is abstract and isn't grounded on the empirical or the rational. Magic may follow the laws of nature, but it operates	5																				
outside of nature and typically draws from an abstraction as its source (god, the divine, a powerful force that inhabits the earth).																					
Or, to simplify it down to basics- here is a conversation a friend and I had in a bar a few years ago. Does the book have dragons? Yes? It's fantasy. Are the dragon result of scientific engineering and genetic manipulation? Yes? Then It's SF. Did the scientific engineering and genetic manipulation happen so far past in history th. 70 42691.63996 is no longer understood/verifiable and has passed into myth? Yes? Then we've back to fantasy.	S & at it	F (0 1	-1	0 0 0	0	0 0	1 1	0 0 0	0	0 0 0	1 0 1	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 (0 0 0
71 42691.85002 72 42691.85002		SF (0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
73 42692.11315 74 42692.11315 I don't make that much of a disctinction - I think of SFF as speculative (And the Margaret Atwood literary/SFF disparty being soemwaht nonexistent)	Same. A science fiction book would likely be set in the future or in an alternative universe. The world looks very different than ours, with features we might regard as	F (0 0	0	0 0 0) 0	0 0	0 0	0 0 0	0	0 0 0	0 1 0	0 0 0	0 1	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
75 42992 23089 Farlasy books contain elements which are impossible in our world, and which the book does not attempt to explain through science. For instance, the dragon in the book has not been considered, applicated in the world of the owner. Exceptibility the book local in a different valid which book different rules from our	impossible. However, these aspects would be explainable according to scientific knowledge / theories we have.	SF (0 0	1	0 1 1	1 0	0 1	0 0	0 1 1	0	1 0 0	0 0 1	1 0 0	0 0	0 1	0 0	0 0	0 0 0	0 0	1 0 0 0	0 0 0
book has not been genetically engineered, it just exists in the world of the novel. Essentially, the book is set in a different world, which has different rules from ours 76 42692 23089 which are never called into question. 77 42692 41003		F (0 0	-1 0	0 0 0	0 0	1 1 0 0	1 0	0 0 0 0 0 0 0 0 0	0	-1 0 0 0 0 0	0 0 1 0 0 0 0 0 0	1 0 0	0 1	0 0	0 0	0 1 0	0 0 0	0 0	1 0 1 0	0 0 0 0 0 0
78 42692.41003 Tropes can help with this, but they only go so far. Just because there is a dragon doesn't mean that the narrative is fantasy. It has to do with the internal logic and the contract of the contract	ne	F (0 0	0	0 0 0	0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
narrative's approach towards the magical/supernatural elements of the text. I see China Mikville's Bas-Lag novels as clearly fitting into fantasy - others see it as a clear example of science fiction. It might be fair to say that it has elements drawn from science fitch, but the logic of a rigorously crafted fantasy world pervades the 79 42692.43455 text, and the nods towards science fiction seem to be just that: nods, and acknowledgement of important ideas or elements borrowed from the sister general.	e	SF (0 0	0	0 0 1) 0	0 0	0 0	0 0 0	n	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0
Tropes can help with this, but they only go so far. Just because there is a dragon doesn't mean that the narrative is fantasy. It has to do with the internal logic and the narrative's approach towards the magical/supernatural elements of the text. I see China Miéville's Bas-Lag novels as clearly fitting into fantasy - others see it as a		,	-			-	-	-	. -	-				· -	-					•	
clear example of science fiction. It might be fair to say that it has elements drawn from science fiction, but the logic of a rigorously crafted fantasy world pervades the 80 42692.43455 text, and the nods towards science fiction seem to be just that: nods, and acknowledgement of important ideas or elements borrowed from the sister genre. 81 42692.54597	e	F SF	1 1 0 n	0	0 0 1	0	1 1 0 n	1 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	1 0	0 0	0 0 1	0 0	0 0 1 0	0 0 0
82 42692.54597 83 42693.00939	An exploration of forward-thinking in conjunction with social science or technology.	F (0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 0 0	0 0 0
44 42693.00039 No basis in logical. The magical rules have their own explanation, but that doesn't mean they align with reality. 42693.6199 A story with fictional elements that could never happen.	A story with fictional elements that could happen, usually based around advanced technology.	SF (1 0 0 0 0 n	0	1 0 1	0 0	0 0 1 0 1	0 0 0 1 0 1	0 0 0 0 0 0 0 0 0	0	0 0 0 1 0 0 -1 0 0	0 0 0 1 0 0 1 0 0	0 0 0	0 0	0 0	0 0 0 0 0 0	0 1 0	0 1 0	0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0
on Access from A starty with incurrent elements that could here it rappers. 4 (4995-62896 4 (4995-62896 Personally I feel fantasy relies on existing myth or previous fantasy works rather than science to achieve suspension of disbellef	Science is a core component of suspension of disbellef	SF (0 0	1 -1	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0		0 0	0 0	0 0 0	0 0	0 0 0 0	0 0 0

89 42693.63226	The "how" of something is important - the story may not be about that entirely, but it's at least dealt with. For example, humans make first contact with aliens. How does that go? How do they interact?	SF 0	0	0	0 0	0 0	0 0	0 1	0 0 0	0	0 0 1	0 0 0	1 0	0 0 0	0	0 1	1 0 0	0 0	0 0	0 0 0	1 1	0 0
90 42693.63226 It contains elements that aren't scientific by nature. It can have science in it, but there are phenomena that are key to the story that don't have a basis in science. 91 42693.64461	That at its core, and usually despite there being new or unsupported physics, the rules of the universe are still in fact governed by science and physics.	F 0 SF 0	0	-1 1	0 0	0 0	1 0	0 1	0 0 0	0	0 0 0	0 0 0	0 0	0 0 0	0 1	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
92 42693.64461 Magic. When people have powers or abilities that cannot be explained by science or reality. 93 42693.64717	Necessary exposition that involves explaining technology/math/science, usually with some acknowledgements or an afterword that touches on this aspect in our results.	F 1	0	-1	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	1 0 1	0 0 -1		0 0	0 0	0 0	0 0	0 0 0) 0 (0 0
93 42993.64171 Probably a transparent deus ex machina at the end; SF does this too sometimes, but with Fantasy it tends to be more obvious. I also tend to think in terms of setting 94 42693.64171 which is why urban fantasies tend to be interesting in that they play around with that a lot (like Mercedes Lackey's famous "elves on motorcycles").	world. 9.	SF 0	4	1	1 0	0 0	0 1	0 0	0 0 0	0	0 0 0	0 0 0	1 0 1			0 0		0 0	0 1	0 0 0		0 0
4 2693.64729 Fantasy is more focused on character. The story works.	Science and sciencey stuff are central to the story	SF 0	ó	1	0 0	0 0	0 0	0 1	0 0 0	ő	0 0 0	0 0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 0 0	ó ó i	0 0
96 42693.64729		F 0	1	0	0 0	0 0	0 0	0 1	0 0 0	0	0 0 0	0 0 0	0 0	1 0 0	0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
97 42693.64854 think it's more related to setting and a sense of place. Fantasy creates its own world.	Science fiction is grounded in the "real" world, even if it doesn't take place there.	SF 0 F 0	0	0	0 0	1 0	0 1	0 0	0 0 0	0	0 0 0	0 0 0	0 1 0	0 0 1	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
99 42693.65197 100 42693.65197 The improbabilities of their fantastical world, whether it be the beasts, magic, witches, faeries, Nagas that lie in wait 101 42693.65269	A read that has a definite amount of science backing its claims, even if the science hasn't come to full fruition yet, such as: electromagnetic propulsion or alien spec On the other end of the scale is, in my mind, the bread and butter of sci-ft: science and technology (think Ghost in the Shell, Firefly, Ender's Game, etc).	F 1	1	0	0 0	0 0	0 0		0 0 0	0	0 0 1	0 0 0	0 0	0 0 0			0 0	0 0	0 0	0 0 0	0 0	0 0
102 42693.66269 It's a kind of scale to me. In my opinion, fantasy has supernatural elements, magic, and the like (Harry Potter, Lord of the Rings, Percy Jackson, and so on). 103 42693.67503	Subject material	F 1 SF 0	0	0	0 0	0 0	1 0	0 0	0 1 0		0 0 0	0 0 0	0 0	0 0 0	0 0		0 0	0 0	0 0	0 0 0	0 0	0 0
104 42693.67503 Subject material 105 42693.68139	Spaceships, new planets, space stations, aliens	F 0 SF 0	0	0	0 0	0 0	0 0		0 0 0	0	0 0 0	0 0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
42693.68139 Magic! Magicians, Gods and goddesses, dragons, hero quests, swords42693.69192	See last response	F 1 SF 0	0	0	0 0	0 0	0 0		0 0 0		0 0 0	0 0 0	0 0 0	0 0 0		0 0	0 0 0	0 0		0 0 0	0 0	1 0 0
108 42693.69192 Honestly, I don't really know or care about the difference. 109 42693.69234	Futuristic, technology	F 0 SF 0	0	0				0 0	0 0 0		0 0 0	0 0 0			0	0 0	0 0		0 0	1 0 0	0 0 0	-
110 42693.69234 Magic, fantastic creatures 111 42693.70199 It has magic or multiple magic systems, it has fairies/spnomes/ogres/unicoms/trolls/dragons - generally, some sort of non-alien fantastic creatures. There may also b	It's set in space or deals with hard science/tech, there may be aliensor it's set in the future on a radically different earth, or it's an alternate present.	F 1 SF 0	0	1	0 0	0 0	0 0		1 0 0	0	0 0 0	0 0 0	0 0 0	0 0 0			0 0 0	0 0		0 0 0	0 0	0 0
it has magic or mouple magic systems, it has rainesignomesrogresioniconstronsionagons - generally, some sort or non-alien rainassic creatures. There may also be 112 42693.70199 gods that play a part in the story.	If about humans, it is set in our future in which significant scientific advances have happened, or if about another species, is set in an imaginary universe, or the pas	F 1	1	0	0 0	0 0	0 0	1 1	1 0 0	0	0 0 -1	0 0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 1 0	0 0	0 0
113 42693.70843 114 42693.70843 Fantasy relies on things that couldn't happen or exist in our universe, like magic. Science fiction relies on things that are a plausible extrapolation of science.	the future, and describes another species or civilization who are technologically advanced, or our species' interaction with them.	SF 0 F 1	0	1	1 1	0 0	0 0	0 0	0 0 0 0 0 1 0	0	0 0 0	1 0 0	0 0	0 0 0) 1	0 0	0 0	1 0	0 0	0 0 0	0 0	0 0
115 42693.71088 Not hard science or no scientific basis; use of characters and/or abilities outside or violating currently known laws of science without basis; use of timeframe set in fa	Scientific basis presented in storyline with consistent and traceable effects, regardless of whether within known laws of science; author's own classification are	SF 0	0	1	0 0	0 0	0 0	0 1	0 0 0	0	0 0 0	0 0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
116 42693.71088 past or future; author's own classification 117 42693.71173	A text is science fiction that delives into the ramifications of the known beyond what is present in today's world.	F 0 SF 0	0	-1 0	0 1 0	0 0	0 0	0 0	0 0 0	0	-1 1 0 0 0 0	0 0 0	0 0 0	1 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
42693.71173 Impossible situations that contradict scientific method, known behaviors of physical materials and energy, for one obvious thing. 42693.71599	Plot is based on science or it is set in a future with no fantasy elements.	F 0 SF 0	-1	-1 1	0 0	0 0	0 0		0 0 0	0	1 0 0	0 0 0	0 0	0 0 0			0 0 0	0 0		0 0 0	0 0	0 0
120 42693.71599 If the world/plot cannot be explained using current science or a plausible extrapolation from current science I consider it fantasy (or paranormal) 121 42693.71998	A book which, broadly, operates within the universe of known science. Of course, that known science might have advanced a great deal from what we know today.	F 0 SF 0	0	-1 1	0 0			0 0	0 0 0		0 0 0	0 0 0			1	0 0	0 0 0	0 0	1 0	0 0 0		0 0
122 42693.71998 I baulk at thinking of stories with lots of advanced tech as fantasy. Up that's probably just my narrow minded prejudice. 123 42693.72032 124 42693.72032		SF 0	0	0	0 0	0 0	0 0		0 0 0	0	0 0 0	0 0 0	0 0	0 0 0			0 0 0	0 0	0 0	0 0 0	0 0	0 0
124 **E000.1 200E	space first contact			Ü	0 0			0 0	0 0 0	Ü		0 0 0			, ,		, , ,	0 0			,	
	alien artifact time travel																					
	different planets warp drive fit																					
125 42693.73765 dragons		SF 0	0	0	0 0	0 1	0 0	0 0	0 0 0	1	0 1 1	0 0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	1 0 0	3 0 /	0 0
magic "period pieces" alues																						
er-leves 126 42693.73765 fighting the "dark" monsters 127 42693.73946	Science and speculation. The writing again would reflect that fact.	F 1 SF ^	0	0	0 0	0 0	0 0	1 0	0 0 0	0	0 0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
128 42693,73946 Magic in the classical sense. Also the writing would reflect that fact.	The rules of the world are more or less the same as in our world with some allowances (take ansible or time travel that are not possible in the form as they are written.)	F 1	Ö	ó	0 0	0 0	0 0	0 0	0 0 0	Ö	0 0 0	0 0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 0 0	ó ó i	0 0
129 42693.76253 Rules of the world - albeit they might be complex and explained with scientific thoroughness - don't follow the rules of our own physical world, or the writer feels no	sci-fi books, just theoretically and/or on a quantum scale), and its history is up to a point compatible with ours.	SF 0	0	0	0 0	0 0	0 1	0 1	0 0 0	1	1 1 0	0 0 1	0 0	0 0 0	0	0 0	1 0	0 0	0 0	0 0 1	0 0	0 0
130 42693.76253 need to explain the rules behind wondrous elements. 131 42693.77208	Extrapolative	F 0 SF 0	0	0	0 0	0 0	1 1 0 0		0 0 0		0 0 0	0 0 0	0 0	0 0 0	0 0		0 1 0	0 0		0 0 0	0 0	0 0
132 42693.77208 No direct connection to current or possible science. 133 42693.79911 Use of magic	Sticking to the laws of physics	SF 0	0	-1	0 0	0 0		0 0	0 0 0		1 0 0	0 0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 0 0	0 0 0	0 0
134 42693.79911 Use of magic 135 42693.80175 136 42693.80175 Idon't really care much whether I think of a particular book as sci-fi or fantasy.	I don't really care much whether I think of a particular book as sci-fi or fantasy.	F 1 SF 0	0	0	0 0	0 0	0 0	0 0	0 0 0 0 0 0 0 0	0	0 0 0	0 0 0 0 0 1 1 0 1 1	0 0	0 0 0 0 0 1 0 0 1	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0
137 42693.00538 Things don't have explanations, people have unexplained special powers, existence of gods.	Use of science; things and abilities have explanations even if it sounds implausible.	SF 0	0	1	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 1	0 0 0	0	0 1	0 0	0 0	0 0	0 0 0	0 0 0	0 0
139 42693.80693	regardless of the presence or lack of tech it is the scientific method being at the root of the concepts - even something that is fantasy in appearance can really be science fiction if the basic idea that "fruth" is an observable, testable, repeatable thing, involving the potential direct relationship between the actors and the universe	e. SF 0	1	1	1 0	1 0	0 0		0 0 0	0	1 0 0	0 0 0	0 1	0 0 1	1 1	0 1	0 0	0 0	0 0	0 0 0	0 1	0 0
Asimov put it best, just replace myth/legend with fantasyboth seek to explain the universe "The difference is that the ancient myths and legends fulfill those need and meet those goals against the backdrop of a Universe that is controlled by gods and demons who can in turn be controlled by magical formulas either in the form	ds n of																					
enchantments to coerce, or prayers to cajole. Science fiction on the other hand, fulfills those needs against the backdrop of a Universe that is controlled by impersonal and unswervable laws of nature, which in turn can be controlled by an understanding of their nature." That understanding may take many forms, but it																						
involves a direct link between the actor and the universe in science fiction, and an indirect link in fantasy. 140 42693.80693 141 42693.81193	To follow on from the last question, SF is the rational end of the spectrum, causal, robust and predictive.	F 1	1	-1	0 0	1 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	1 0	0 0 0	1		0 0 0	0 0	0 0	1 0 1	0 0	0 0
To paraphrase Arthur C Clarke 'technology which is imprecisely understood becomes magic'. Discoveries in the quantum reality (or realities) that we inhabit have print to question how much science/technology can be considered emperical tools and so may be more subjective than we realise. Fantasy is the subjective word at the	ut	Si 0	Ü			0 0	0 0	0 0	0 0 0	Ü	1 0 0	0 0 0	0 0 1		, ,	0 0	, , ,	0 0	0 0	0 0 0	, , ,	
142 42693.81193 extreme end of that perception. 143 42693.82118	A strong concern with advanced technology and how that might effect a universe.	F 1 SF 0	0	1	1 0	0 0	0 1 0		0 0 0	0	0 0 0	0 0 0	0 0 0	0 0 1			0 0 0	0 0		0 0 0	0 0 0	0 0
 42693.82118 Strong elements of magic or religion. There is no real hard dividing line though, as there are many books of the "magicians/telepaths with space ships" genre. 42693.88191 	Boring. Luckily I've found some new ones with good character development.	F 1 SF 0	0	0	0 0				0 0 0		0 0 0 0	0 0 1					0 0 0	0 1		0 0 0	0 0	0 0
Lol. Sci fi is fantasy. It's all fantasy. I think sci fi readers just want to feel smart and say they aren't just reading made up stories about pretend people the "science" 146 42693.88191 makes it okay and more mature.		F 0	0	1	0 0	0 0	0 0	0 1	0 0 0	0	0 0 0	0 1 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 0 1	1 0	0 0
147 42693.89911	Looking towards the future, being set in the future or sometimes almost the present. Opening up to space or time or mental space. Using technology, or thinking in a technological way about magic. Aliens.	SF 1	0	0	1 1	0 1	0 0	0 0	0 0 0	0	0 1 1	0 1 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
Notablia. Looking towards the past rather than the future. Copying Tolkien. Using fairy tales or other well known tropes. Using magic as a deur ex machina. Dragor 148 42693.89911 Magic. 149 42693.90614	ns. Science developments	F 1	0	0	0 -1 0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
150 42693.30614 Lack of science 151 42693.91149	The same as above, but with technology or aliens as an integral part of the plot. Often in a future or alien setting, or with futuristic/alien elements.	F 0	0	-1 0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0				0 0 0	0 0	0 0	0 0 0	0 0	0 0
The presence of magic or real-world impossibilities as a function of plot. Often featuring pre-20th century technology or superstition/ideas. I think quite a bit of little is 42693.91149 actually fantasy, but it's not marketed that way for fear the middle class might not buy it.	S	F 1	0	0	1 0	0 0	0 1		0 0 0	0	-1 0 0	0 1 0	0 0	0 0 1	. 0	0 0	0 0	0 0	1 0	0 0 0	0 0	0 0
153 42693.93122	It is not always the technology because alternative histories do not use it as a plot device. So, science fiction can be best said to be a fantastical story that does not magic.	use SF -1	1	0	1 0	1 0	0 0	0 1	0 0 0	0	0 0 0	0 0 0	0 0	0 0 0	0	0 0	0 0	0 0	1 0	0 0 0	0 0	0 0
154 42693.93122 Lord of the Ring trilogy was set in a mythological realm with a complex set of characters. Although magic was used, it didn't get the characters out of trouble.	SF seems to be more about the future and exploring other worlds and the technoligy this brings. About different races that live on other planets and going to war with	F 1	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 1	1 0 1		0 0	0 0	0 0	0 0	0 0 0	3 0 1	0 0
155 42693.93446 A lot of fantasy I think of as the Middle Ages with magic. Though some can be timestip novels but still have magic. Magic always seems to be about magic and I find 156 42693.93446 interesting to see how authers find their own magic systems	them d it	SF 0	0	0	1 1	0 0	0 1	0 0	0 0 0	0	0 0 1	0 0 0	0 0 1	0 0 0	0	0 0	0 0	0 0	0 0	1 0 0) 0 (0 1
156 42693.33446 interesting to see how authers tind their own magic systems 157 42693.33796 158 42693.33796 Magic and/or magical/otherworldly creatures which are just there instead of being justified with pseudo-scientific explanations.	The story is enabled by futuristic technology (even if said technology isn't the story's focus).	SF 0	0	0			0 0		0 0 0 0 1 0 0	0	0 0 0	0 0 0		000			0 0		0 0	0 0 0	0 0	0 0
159 42693.94419 Overt magic, other typical fantasy trappings	Overt tech, other typical SF trappings	SF 0 F 1	0	0	1 0	0 0	0 0	0 0	0 0 0	0	0 0 0		0 0		0	0 0		0 0	0 0	0 0 0	0 0	0 0
161 42693.94532 Magic vs science. Phenomena that can't be explained scientifically. (I know time travel, wormholes, etc might as well be magic, a la Arthur C. Clarke, but an	Set in the future. Technologically based things in the fictional world that are involved in the story.	SF 0	0	0	1 1	1 0	0 1	0 1	0 0 0	1	0 0 0	0 0 0	0 0	0 0 0	0	0 1	0 0	0 0	0 0	0 0 0	0 0	0 0
 42693.94532 attempt is made to explain and justify them scientifically). 42694.00734 	Plots that have a link to what I know, and think about in present, and have connection to a wide understanding of human experience and struggles.	F 1 SF 0	0	-1 0	0 0	0 0	0 0	0 0	0 0 0	0	0 1 0 0	0 0 0	1 0 0	0 0 0	0 0	0 0	0 0	0 0	0 0	0 0 1 0	0 0	0 0
164 42694.00734 Complex nomenclature or its own sake, characters that are their "powers" but lacking emotional depth.	Other settings, other or advanced technology ("gone wrong" makes for a better story, but it can be "as-designed" if it was designed to mess things up.), future event	F 0	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0 (1 0 0	0	0 0	0 0	0 0	0 0	0 0 0	3 0 1	0 0
165 42694.01244 166 42694.01244 Unusual things in a usual setting. Vampires on Main Street, etc. Doesn't have to be vampires, of course. 167 42694.01243	not just more of the same with shiny clothing. Space opera involves space ships and the clash of cultures	SF 0 F 0	0	0	1 1 0 0	0 0	0 0	0 1	0 0 0	0	0 0 0	0 0 0	0 1 0	0 0 0	0	0 1	0 0 1	1 0	0 0	0 0 1	0 0	0 0
168 42694.01633 High fantasy has magic and avoids technology in its setting	Generally speaking I do not read science fiction although I do watch SF movies; so my answer might be cliche: other planets, science and technology that is far movies.	F 1	0	0	-1 0	0 0	0 0	0 0	0 0 0	ő	0 0 0	0 0 0	0 0	0 0 0	0	0 0	0 1	0 0	0 0	0 0 0	0 0	0 0
169 42694.01641 170 42694.01641 Magic of some sort; something that reminds you it is not real	advanced than ours which makes the story implausible.	SF 0 F 1	0	1	1 0	1 0 0 0	0 0	0 1 0 0	0 0 0	0	0 0 0	0 0 0	0 0 0	0 0 0	0	0 0	0 0 0	1 0 0 0	0 0	0 0 0	1 0 0	0 0
	Tech is the central element, or the plot line, like "I, Robot".																					
171 42694.02059 The easiest explanation is Christopher Stasheffs "The Wizard in Spite of Himself" series. There is a strong SF tech element, but the rest is pure fantasy. The tech is 172 40904.00060 both integral and plantified, and should be received by the close both integral and plantified, and should be received by the close both integral and plantified.	Scope has a part as well, in that the whole space travel thing opens lots of territory. Multiple worlds tend to make me give it more of a SF vibe.	SF 0	0	0	1 0	0 1	1 1	0 0	0 1 0	1	0 0 0	0 0 0	0 0	0 0 0	0	0 1	0 0	0 0	1 0	0 0 0	0 0	0 0
172 42694 02059 both integral and plausible, and absolutely essential to the story, but it doesn't consume the plot. 173 42694 02051 174 42694 020521		SF 0	1 0 0	0	0 0	0 0	1 0 0 0 0 0	0 1 0 0 0	0 0 0		0 0 0	0 0 0	0 0 0	0 0 0		0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
174 42694.0411 175 42694.0411 Fantasy takes me to a whole new world where the rules are not based on anything completely realistic to ours. Magic could be behind it or something like it. Maybe	There is still a touch (or more) of realism to it. Machines, weapons of mass destruction, people who only believe in science.	SF 0	0	1	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0	0 0 1	0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
176 42694.0411 there are creatures that appear or are used or are characters in the storyline. Mostly I want to feel swept away from my reality to another.	That it is a story that could conceivably happen in the real world, or perhaps in a future version of it. Space travel, matter transportation and things that while they d	F 0	0	0	0 0	0 0	0 1	0 1	1 1 0	0	0 0 0	0 0 0	0 0	1 0 -1	0	0 1	1 0	0 0	0 0	0 0 0	0 1	0 0
177 42694.04446 Fantasy for me is a story without hard science - magic, shapeshifting, or a theme where it wouldn't necessarily work in the real world. Urban fantasy kind of breaks	not exist today, could potentially exist.	SF 0	0	0	0 1	0 0	0 1	0 1	0 0 0	1	1 0 0	1 0 0	0 0	0 1 1	0	0 1	0 0	0 0	0 0	0 0 0	0 0	0 0
 42694.04446 that definition, as it does happen in an alternate version of the real world, but with things that would happen outside of scientific explanation. 42694.04921 	There is a branch of scientific study integral to the plot (even if it's not directly referred to)	F 1 SF 0	0	-1 1	0 0	0 0	0 1	0 1	0 0 0	0	0 0 0	1 0 0	0 0 0	0 0 1	0	0 1 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
 42694.04921 Both may include fantastic elements, but Fantasy has its basis in magic whereas SciFi has its basis in science. 42694.05031 	Science based, technology based. Could all be things that don't exist yet but are theoretically possible given advancements in technology	F 1 SF 0	1 0	-1 1	0 0	0 0	1 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
Lack of modern technology, mythological creatures, magic in place of technology, defiance of science (blending of species that could never viably mate like 42694.05031 hippocampus type creatures, abilities that defly science- seeing into future, altering reality, shape changing, etc)	Fairly strict adherence to laws of physics/science. Events in the story could actually happen in the real world - past, present, or future. Most sci fi stories in my mind	F 1	0	-1	-1 1	0 0	0 0	0 0	1 1 0	0	0 0 0	0 0 0	0 0	0 0 -1	0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
183 42694.06631 The story takes place in a world where the basic rules of physics/science are upended. "Mapid" replaces these rules, giving ordinary people abilities that are not	Fairly strict adherence to laws of physics/science. Events in the story could actually happen in the real world - past, present, or future. Most soil is stories in my mind have a heavy reliance on technology, but not all. If characters exhibit any sort of ability that would seem magical, there is always a scientific explanation for it.	SF 1	0	1	1 1	0 0	0 1	0 1	0 0 0	0	0 0 0	1 0 0	0 0	1 0 1	1 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
184 42694.06631 possible in the real world. Another attribute can be the real presence of delities that take an active role in the events of the world. 185 42694.06816	Science is explained. None of the plot points break the known laws of physics without a logical explanation	F 1 SF 0	0	-1 1	0 0	0 0	0 1	0 1	0 0 0	0	-1 0 0 0 0 0	0 0 0	0 1 (0 0 1	0	0 0	1 0	0 0	0 0	0 0 0	0 0	0 0
186 42694.06816 Swords and sorcery 187 42694.08536	Science fiction is books without magic and with more thought to what could be scientifically accurate in them.	F 1 SF -1	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
188 42694.08536 Fantasy is books that have magic and generally a less "rigorous" idea of things being somewhat scientifically accurate.	Set in the future when it was written, with an attempt to predict the future if it's not far awhen.	F 1	0	-1	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0 1	0 0	0 0 0	0	0 1	0 0	0 0	0 0	0 1 0	3 0	0 0
	And/or it has some kind of technology or science not currently known, that complies with what we do know about the universe, or explains plausibly why it doesn't.																					
189 42694.10517 Any hint at all of "magic". Andior anything unexplainable by, or impossible according to, our current knowledge, without any attempt to explain it	Bottom line, tech and/or science is key to the story.	SF 0	0	1	1 1	0 0	0 0	0 1	0 0 0	0	1 0 0	0 0 0	1 0	0 0 0	1	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
Any nint at all or majo: Andor anyming unexplainable by, or impossible according to, our current knowledge, without any attempt to explain it materially/scientifically.																						
190 42694.10517 If the "magic" has a "scientific" explanation, it's edging back into SF. 191 42694.11511	Technology critical to story	F 1 SF 0	0	-1 0	0 0	0 0	0 0	0 0 0 1	0 0 0 0 0 0	0	-1 0 0 0 0 0	0 0 0	-1 0 0 0 0	0 0 0	0 0	0 1 0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
Ends of the spectrum are pretty clear, the middle is very muddled and I don't mind. Just read a Genrenaut high fantasy, which is a perfect example of one genre playing with another: modern science "fixers" working in a high fantasy world to literally fix story, while getting swept into it. I don't like hard & fast borders; I think tho		v			-					-	· -			•	-	•	-					
192 42694.11511 betray the "intent" and evolution of the genre. I'm a very inclusive person. 193 42694.11607 And and the analysis of the genre. I'm a very inclusive person.	High technology comma low Magic	F 0 SF -1	0	0	0 0	0 0	0 1	0 1	0 1 0 0 0 0 0 0 0	0	0 0 0	0 1 0	0 0 0	0 0 0	0 0	0 0	0 0 0	0 1	0 0	0 0 0	0 0	0 0
194 42694.11607 Medieval ish type fantasy. No technology. 195 42694.12388 I think most fantasy is quest stories of one sort or another or reworked myths. There are other markers - often magic rather than science/technology for instance,	I think most sf is either an unashamed adventure story or a teaching parable.	SF 0	0	0	0 0	0 0	0 0	0 1	0 0 0	0	0 0 0	0 1 0	0 0 0	0 0 0) 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0
Think most fantasy is quest stories of one sort or another or reworked myths. There are other markers - often magic rather than science/fechnology for instance, 196 42694.12388 usually a heroine/hero rather than a true ensemble cast, a coming-of-age, a dragon to slay - but 197 42694.12697	Scientifically backed theories get put into use. Generally set in space. Often includes fantastic elements grounded in reality. Humanity's dream of the future.	F 1 SF ^	0	-1 1	-1 0 0 1	0 0	0 0	1 1	0 0 0	0	0 0 0	0 1 0	0 0	0 0 0	0 0	0 0	0 0	0 0	0 1	0 0 0	0 0	0 0
	,	0	'	-	- '		. •			·		_ 5 0	5 0 1		·				- •			

198 42694.12697 Magic is generally used as a tool. The character goes through some sort of transformation, physical or emotional, and imaginative settings are often accepted.		F 1	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0 0	1 0	0 (0 0	0	0 0 1	1 0	0 0 0	0	1 0 0	0 0 0	
199 42694.13527	STEM is a major part of the world making and plot line, and these follow fundamental physics and natural laws with exceptions (and they can be major) carefully, rationally, fully explained and justified. I need to be able to maintain a suspension of disbelled, after all. And if the author starts to bring in fantasy elements that are don't get this rational treatment, if so no longer science fiction. Or at least not good science fellow.				0 0		1 1	0 0	0 0 0					1 0 0					0 0 0		0 1 0		0 1 0	0 0 0	
Some important aspect of the plot, characters, or world making violates fundamental physics or other natural "laws". Examples are elves, zombies, dragons, vampires. Usually, this exception conforms to some genre as well; the ones that don't conform to genre can be some of the best (Wen Spencer, LE Modesiti).																									
200 42694.13527 In fundasy this is being done on purpose – some badly written science fiction does this as well but because of author incompetence. 42694.13575 Usually magic	Some sort of technology or medical techogy (like plagues, viruses)	F 0 SF 0 F 1	1 0 0	0	0 0 1 0 0 0	1 0 0 0 0 0	0 1 0 0 0 0	1 0 0 0 0 0	0 0 0 0 1 0 0 0 0	0 0 0	-1 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0	1 0 0 0 0 0	0 0	0 0 0 0	0	0 0 0	0 0 0 0 0 0	1 1 0 0 0 0 0 0 0	0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	
203 42694.14659 204 42694.14659 Magic happens without any scientific background. Happenings don't follow natural rules, just happens without real logic. 205 42694.14526	It has some scientific background, and action has real consequences. Technology or space related things.	SF 0 F 0 SF 0	0 0 0	1 -1 0	0 0 0 0 1 0	0 0 0 0 0 1	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0	0 0 0 0	0 0 0 1 0 0	0 0 0 0 0	0 0 0	0 0	1 (-1 (0 0	0 0 0	0 0 0 0	0 0 0 0 0 0 0 0 0		0 0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0	
206 42694.16326 I think of books with magical elements as fantasy novel, even if the magic is a back seat to the main plot, like in Carry On by Rainbow Rowell. 207 42694.1729	Something that has happened but technology has typically progressed farther than what is now possible, by some means other than Magic, gods, spirits, or other divir means	F 1 ne SF 0	0	0	0 0	0 0	1 0	0 0	0 1 0	0	0 0	0 0	1 1	0 1 0	0 0	0 0	0 0	0	0 0 0	0 0	0 1 0	0	0 0 0	0 0 0	
208 42694.1729 Technology is not progressed father than in our world unless from a supernatural source; something that has not happened 209 42694.17397 Lack of relevance to anything real, unexplained "magical occurrences", "Heroic" characters.	Some grounding in science and its principles, solving a mystery or puzzle in a logical manner, far future, and of course, spaceships.	F 0 SF 0 F 1	0	0 1 0	-1 0 0 1 0 0	0 0 0 1 0 0	0 1 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0	0 0 1 0 0 0	0 1 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 -1 0 0	0 0	0 0	0 1 0 0 0 0	1 0	0 0 0	0 0 0 0	0 0 0 0 0 0 0 0 0	0	0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0	
211 42994.1807 212 42994.1807 No attempt to connect to possible developments in the future or a completely different past 213 42894.19455	Connection to possible futures or the development oil alternate societies with rationalizations of how they developed through scientific reasoning Space flight, aliens, setting on different planet than earth	SF 0 F 0 SF 0	0	0	0 1 0 1	0 0 0	0 0	0 0	0 0 0 0 0 0 0 0 0	0	1 0 -1 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0	0 0 0	0 0 0	0 0 0	1	0 0 0	0 0 0 0 0 0 0 0 0	
204 42894 19455 Magic, magical creatures 215 42894 19913 (1991) (Plausible but unlikely things happen.	F 1 SF 0	0	0	0 0	0 0	0 0	0 0	1 0 0	0	0 0	0 0	0 0	0 0 0	0 0				0 0 0	0 0	0 0 0		0 0 0	0 0 0	
210 4204-1401 (projecture unings respect). 214 42694 21638 Seconds of ray guns 218 42694 21638	Not understandable to most women	SF 0	ő	ő	0 0	0 0	0 0	0 0	0 0 0	ő	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0	ó	0 0 0	0 0	0 0 0	ő	0 0 0	0 0 0	
219 42694.21908	How close is it to really happening, or corresponding to current concepts, inclusion of real-life ideas to put a "hard edge" on minor aspects of the story, respect for "Murphy's Law"	SF 0	0	0	0 0	0 0	0 0	0 1	0 0 0	0	0 0	0 1	0 0	0 0 0	0 0	1 (0 0	0	000	0 0	0 0 0	0	0 0 0	0 0 0	
Writing about things we can never experience, use of non-tech or non-scientific methods when perfectlyworkable real-life concepts would have been available to the 220 42684 21905 story universe. 221 42684 21995	e Rooted in science/technology, probable futures	F 0 SF 0	0	-1 1	0 0 1 1	0 0	0 0	0 1 0 0	0 0 0	0	0 0	0 0	0 0	0 0 0	0 0	1 1			0 0 0	0 0	0 0 0		0 0 0	0 0 0	
222 42694 21995 Not rooted in science, may lack technology aspects, harder to explain in practical terms 42694 22303 244694 22303 Lord of the Ring is total faintasy. Sri-fi attempts to predict the future.	Predicting the future	F 0 SF 0 F 0	0 0 0	-1 0 0	-1 0 0 1 0 -1	0 0 0 0 0 0	0 0	0 0 0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	-1 0 0 0 0 0 0 0 0	0 0	0 0	0 0 0 0		0 0 0	0 0 0 0	0 0 0 0 0 0 0 0 0	0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	
42694 24731 For me, the real difference between fantasy and science fiction is that fantasy involves things and people that could never be in our existence (demons, fairies,	Answered above: Science fiction is a story that explores what's quite possible, whether in today's world or in a word of the future. It might also involve speculation about the past (time travel, or stories about prehistoric times).	SF 0	0	0	0 1	1 0	0 1	0 1	0 0 0	1	1 1	0 0	0 0	0 0 0	0 0	0 0	0 0	0	0 0 0	0 0	0 0 0	0	0 0 0	0 0 1	
226 42694 24731 dragons, ghosts), and science fiction is quite possible, whether in today's world or in a world of the future, 227 42694 26023 288 42694 26023 The lack of science and technology.	The possibilities of science, technology and fiction.	F 0 SF 0 F 0	0	0 1 -1	0 1 1 0 -1 0	1 0 1 0 0 0	0 1 0 0 0 0	1 0 0 0 0 0	0 0 0 0 0 0 0 0	0	-1 0 1 0 0 0	0 0	0 0	0 0 0	0 1	0 0	0 0 0 0	0 0	0 0 0	0 0	0 0 0	1 0 0	0 0 0	0 0 0	
229 42994 2755 230 42994 2755 1 think that in fantasy the world has rules which are not based on science. But it's important that the rules are always applied consistently. 231 42994 28355	Same as above, but the rules are rooted in scientific facts. It has to have a philosophy behind it and is using some sort of science even if it's only theoretical as a base.	SF 0 F 0	0	1 -1	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0		0 0 0	0 0		0 0		0 1 0	0 0	0 0 0	0	0 0 0	0 0 0	
232 42694 28265 A fantasy is anything more based in magic, magical creatures, magical forces in no matter what setting. 233 42694 28698	it issue to have a principling to entrol to using some sort to science even in it is only decreased as a classe. Technology	F 1 SF 0	0	0	0 0	0 0	0 0	0 0	1 0 0	0	0 0	0 0	0 0	0 0 1	0 0	0 (0 0		0 0 1	1 0	0 0 0		0 0 0	0 0 0	
224 42694 28698 Magic 235 42694 28698 Tairies, goblins	alternate realities of humans	SF 0 F 0	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0		0 0 0	0 0				1 0 0	0 0	0 0 0		0 0 0	0 0 0	
237 42694 29738 Major, mystical creatures, romance. 239 42694 29738 Major, mystical creatures, romance.	Science, technology, space exploration. Having to explain the causes and interconnections of SF or super-normal elements in such a way that the reader gets the unity of the world building.	SF 0 F 1 SF 0	0 0 0	1 0 0	1 0 0 0 0 0	0 1 0 0 0 0	0 0 0 0 1 1	0 0 0 0	0 0 0 1 0 0 0 0 0	0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 1 0 0	0 0	0 0	0 0 0 0	0	0 0 0	0 0 0 0	0 0 0 0 0 0 0 0 0	0 0	0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0	
Fantaxy does not have to lay out the causes of its magic or supernatural effects. It simply presents the effect of these things in its story. I think it is freer to dazzle the 42694.3149 reader with super-normal elements since it is not ted to how these elements all tie together. 241 42694.31751	Plausibility	F 1 SF 0	0	0	0 0	0 0	1 0	0 1	0 0 0	0	0 0	0 0	1 0	0 0 0	0 0	0 0	0 1	1 0	0 0 0	0 0	0 0 0	0	0 0 0	0 0 0	
242 42694.31751 Fantasy includes an element that is generally accepted as not existing as we understand reality.	Done well, science fiction deals with plausibilities, even if they are far flung (if not far fetched). Done well, fantasy deals with the deepest parts of our id.	F 0	0	0	0 0	0 0	1 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0 0	0 1	-1 (0 0	0	0 0 0	0 0	0 0 0	0	1 0 0	0 0 0	
243 42694.32715 The best fantasy stories tap into the deepest parts of human psyche, where logic and science simply aren't important, but which are nonetheless central to what it means to be human. The best fantasy stories become a mythology, in the truest sense, which tills the reader with meaning.	Done excellently, this line can blur, even marketers won't know how to position to work.	SF 0	0	1	0 0	1 0	0 0	0 0	0 0 0	0	1 0	0 0	0 0	0 1 0	0 0	0 (0 0	0	0 0 0	0 0	0 0 0	0	0 0 0	0 0 0	
Unfortunately, most fantasy writing isn't this. Most is simply a hackneyed world which possesses a flat, faux science. The number of books, sometimes quite popula books, which present this kind of simplified cog-and-wheel, faux-science world defies belief.	or .																								
Strictly speaking, one could write a science-fiction novel with a dragon. Arthur C. Clarke did just that in the 3001 Space Odyssey. The trappings aren't important; the 42694 32715 thinking is.	e	F 0	0	0	0 0	1 0	0 1	1 1	0 0 0	0	0 1	0 0	1 1	0 0 0	0 0	0 (0 0	0	1 0 (0 0	0 0 0	0	0 1 0	0 0 0	
245 42694 34003	It must be fundamentally testing a hypothesis that is relevant and connected to the known world. Could also be founded on overt scientific principles considered today I differentiate between space opera and true SciFI.	y	٥						0 0 0	٥	4 0		0 0		0 0				0 0 0		0 0 0		0 0 0		
Zero connection to the world as we know it.	Tuineterinade Detween space upera and use Soil I.	51 0	۰							٠												,			
246 42694 34003 Magic + here and now = magical realism 42694 37368 Magic and lack of technology.	Advanced technology, space travel	SF 0 F 1	0	0	1 0	0 1	0 0	0 0	0 0 0	1	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0		0 0 0		0 0 0		0 0 0	0 0 0	
249 42694 38936 Imposible worldbuilding (magic, fantastical creatures, secondary worlds) 250 42694 38936 Imposible worldbuilding (magic, fantastical creatures, secondary worlds) 42694 41129	Science or technology are central to the story Problems are solved by guns or technology.	SF 0 F 1 SF 0	0 1 0	1 0 0	1 0 0 0 1 0	0 0	0 0 0 1 0 0	0 1 0 0 0 0	0 0 0 1 0 0 0 0 0	0 0 0	0 0 -1 0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0	0 0 0	0 0	0 0 0 0 0 0 0 0 0	0	0 0 0 0 0 0 0 0 0	0 0 0	
252 42694.4129 Problems are solved by swords or sorcery. 253 42694.42181 Supernatural or other-than-recognizable characters, whether human or other-than humanthe sort of "vampires walk among us" tales, often inhabiting a parallel	Some sort of basis in real or near-future science and technology	F 1 SF 0	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0	0 0 0	0 0	0 0 0	0	0 0 0	0 1 0	
254 42694.42181 universe or dimension		F 0	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0	0 0	0 0 0	1 0	0 1	1 0	0		0 0	0 0 0	0	0 0 0	0 0 0	
	Timeframe Snace travel																	U	1 0 (0 0					
255 42694.42287 Swords Meric	Timetrane Space fravel Robots	SF 0	0	0	0 0	0 1	0 0	0 0	0 0 0	1	0 1	0 0	0 0	0 0 0	0 0	0 0	0 0	0	0 0 0	0 0	0 0 0	0	0 0 0	0 0 0	
Swords Magic 256 42694.42287 Other worlds 257 42694.45188	Space travel Robots Most of its conceptual circuits are grounded.	SF 0 F 1 SF 0	0 0	0 0 0	0 0 0 0 0 0	0 1 0 0 0 0	0 0 0 1 0 0	0 0 0 0 0 0	0 0 0	1 0 0	0 1 0 0 1 0	0 0	0 0	0 0 0	0 0	0 0	0 0	0	0 0 0	0 0	0 0 0	0	0 0 0	0 0 0	
Swords Magic 256 42694 42287 Other worlds 274 42694 42287 Other worlds 275 42694 42787 Algorithm of the properties of th	Space travel Robots Most of its conceptual circuits are grounded.	SF 0 F 1 SF 0 F 1	0 0 0 0 0 1	0 0 0 0 1	0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0 0	0	0 0 0	0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 1 0 0 0 0	0	0 0 0 0	0 0 0	
Swords Magic 256 42694.42287 Other worlds 27 42694.45188 The presence of magic as magic and not technology. Silly-ass plots, over-the-top drama, inconsistent characters, inconsistent environments, author reliance on de-	Space travel Robots Most of its conceptual circuits are grounded. June 1	SF 0 F 1 SF 0 F 0 F 0 F 0 F 0 F 0	0 0 0 0 1 -1	0 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0 (0	0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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It must contain and put emphasis on real science. Even if it is taken to unrealistic places. I magic is present and not completely explained, or even if it is, this is ok it 304 42695.32757 can still be sof it; the science however needs to be authentic. Otherwise, like Star War, it becomes science fantasy, which is also enjoyable. 305 42695.38152	Technology. Robots, space exploration (that isn't space opera), anything that falls more into the realm of realistic or theoretical possibility.	F 1	1	0	0 0	0 0	0 0	0 0	0 1 0 0 0 0	0	0 0 0	0 0	0 1	1 0	0 0 1	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0
Magic, dragons, wizards, etc., but obviously that's not always the case. Obviously we have the category of magical realism which can include telepathy or slightly magical things happening that are smaller in scale. Perhaps the simplest answer would be when something happens that can only be described as wishful thinking.	сынонуу. 1900-ж, эроос сырованы (нак эт с эроос орону), шукшу шак каш посс ино исс сашто с сашто с сашто и поссова розлиту.	., ,						0 0	0 0 0	ū		0 0				Ü			0 0	0 0	, , ,		
"I wish I could fly" and so a character does without any kind of apparatus unless it's a magical wand or ring, but not a jet pack. Teleportation, invisibility, etc. Yes, 306 42695.38152 these things can be in SF, but if a story is set in the present or past it's more likely fantasy.	A possible future scientific/technological development (no matter how remote that possibility) is central to the plot, for the protagonists' good or iii. The plot should relate		0	0	0 0	0 0	0 0	1 1	0 1 1	0	0 0 0	1 1	0 0	0 0	1 0 1	0	0 1	0 0 0	0 0	0 0	0 0 0	0 1 0	0 0
307 42695.43144 308 42695.43144 MAGIC. Don't say you're fantasy and not have magic. If there's no real, discernible magic, it's not fantasy. (Everything else is negotiable.)	to that development in some form or another, even if the story is not entirely about said development.	SF 0 F 1	0	1	1 1 0 0	0 0	0 0	0 1 0 0	0 0 0	0	1 0 0 0 0 0	0 0	0 0	1 0 0 0	0 0 0 0 0 1	0	0 0 0	$\begin{array}{cccc} 0 & 0 & 0 \\ 0 & 0 & 0 \end{array}$	0 0	1 0 0 0	0 0 0	0 0 0	0 0
309 42695.55795 Samuel R. Delany's Jewel Hinged Jaw offers the best working definition of the subjunctive.	An extrapolation that is not comforfescape literature- with a viable society and setting that could conceivably be linked to this one but is clearly not realistic fiction in the vein of Rabbit, Run - something is NOT as it would be if I walked outside on the street and looked around, whether that be technology or time. Infinite Jest is SF.	sF 0	0	0	1 0	1 0	0 0	0 0	0 0 0	0	0 1 0	0 0	0 0	0 0	0 0 -1	0	0 1	0 0 1	0 0	0 0	0 0 0	0 1 0	0 0
reportage: this has happened. naturalist fiction: this could have happened. fathasty, this could not happen																							
SF: this has not happened (dystopian SF: yet!) Suvin's cognitive estrangement and other definitions seem to ignore the mythic element so convincingly integrated by Frye into modern genres. Literary Criticism																							
should probably never have moved beyond Frye, as this relativistic nonsense and overcomplication winds up producing people who don't even know what they know 310 42695.55795 who call themselves experts. 311 42695.58826	Technology/science.	F 0	0	0	0 0	1 0	1 0	0 0	0 0 0	0	-1 0 0	1 0	0 0	1 0	0 0 0	0	0 0	0 0 0	0 1	0 0	0 0 0	0 0 0	0 0
312 42695.68826 Magic. 313 42695.76702	It usually has a sort-of problem, hypothesis, idea inside, unlike fantasy, which in my opinion, instead of scientific coldness has more heartwarming things.	F 1 SF 0	0 -1	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	3 0
Setting? Usual transition from fantasy to science fiction goes through steampunk. Reminds of distinction between hard rock and heavy metal in music, it is hard to put 314 42995.78702 one's finger on it. 315 42995.78702 one's finger on it.	t See above:)	F 0	0	0	0 0	1 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0
Sci fi defines the world with scientific examples and theories. Fantasy simply states that it is a basis of the universe or uses the 'magic' explanation. Either way its an 316 42695.83047 attempt to explain/justify/create the reality in the plot line.	,	F 1	0	0	0 0	0 0	0 1	0 0	0 0 0	0	0 0 0	0 0	0 1	0 0	0 0 1	1	0 0	0 0 0	0 0	1 0	0 0 1	0 0 0	0 0
317 42955,8418 3 318 4295,8418 ? 319 42895,84591	hard science set in a future but it is so flexible Scientific elements or advanced technology.	SF 0 F 0	0	0	0 1	0 0	0 0 0 1 0		0 0 0	0	0 0 0		0 0	0 0	0 0 0	0		0 0 0 0 0 0 0 0 0	0 0 0 1 0		0 0 0	0 0 0	0 0
 42695.84591 Something set in a different world, or something set in this world with fantastical elements like creatures or magic. 42695.84785 	High tech, scientific explanations that are generally plausible.	F 1 SF 0	1	0	0 0	0 0	1 1	0 0	1 1 0	0	0 0 0		0 0	0 0	0 0 0	0	0 1	0 0 0	0 0		1 0 0	0 1 0	0 0
322 42695.84785 Fantasy usually involves some kind of magic or supernatural force. Or an alternate world that's usually low tech. Suspension of disbellef. 323 42695.85258	Science orientated (le steampunk or futuristic) elements or world Building.	F 1	0	0	0 0	0 0	0 1	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	1 0	0 0 0	0 0	0 1	0 0 0	0 0 0) 0
324 42695.85258 Supernatural elements or world building.	Tends to use science as a tool to explain and explore the world around the characters.	F 0	0	0	0 0	0 0	1 1	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	3 0
325 42695.85341 Faralay tends to built around "magic" or is a world that has elements that we would call magic even if the inhabitants wouldn't. E.g. magic doesn't exist but animals	Also tends to be more industrial and mechanical in nature. E.g futuristic space going explorers.	SF 0	0			0 1	0 1		0 0 0	0	0 0 0	0 0	0 1	0 0	1 0 0	0		0 0 0	0 0	0 0	0 0 0	0 0 0) 1
326 42695.85341 included are dragons and griffins.	Science fiction is a little easier for me to pin down: I tend to think of it as the Big Idea genre where, really, all you have to do is introduce one element that doesn't exis in our world and see the ways in which our world would change around that new element. It can be as simple as telepathy or as mindblowing as fully realized "hard"		U	-		-				Ü		0 0	0 0	1 0		Ü						0 0	, 0
327 42695.85698 My gut instinct here says "magic," but I've honestly read plenty of secondary world stories where the magic plays a minimal role or none whatsoever and still feels likk fantas vto me. Bevond that, it's very hard to nell down. I think that what I lend to think of as classic fantasies are the stories that really invite you to explore a new plac		SF 0	0	0	0 0	1 0	1 1	0 0	0 0 0	1	0 0 0	0 1	0 0	0 0	0 1 1	0	0 0	0 0 0	0 1	0 0	0 0 0	0 0 0) 0
328 42695.85698 through the eyeballs of new people, where I have to set aside preconceived notions I've grown up with to fully appreciate a place I've never set foot before.	re Fiction that speculates using science to examine the future of humanity. The imaginative aspects are inspired and propelled from current science and our	F 1	0	0	0 0	0 0	0 1	0 1	0 1 0	0	0 0 0	0 1	0 0	0 0	0 0 1	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 1
329 42695.85719 Fantasy is fiction written using imaginative content outside our reality. From imagined creatures to created worlds, fantasy exists to me as things that only come to be	understanding of technology and the universe.	SF 0	0	1	1 1	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	1	0 0	1 0 0	0 0	0 0	0 0 0	0 0 0) 0
330 42995.85719 Inside the imagination- magic, impossible creatures, impossible geography. Worlds spun by the inspiration of ours but never actually ours. 331 42995.89022 332 42995.89022 Magic, supernatural creatures, swords, armour, alternate reality.	Space, pseudoscience, laser guns, airships, grounded in reality.	F 1 SF 0 F 1	0	0 1	0 0	1 0 0 1 0 0	0 1	0 0	1 0 0	0	1 0 0 0 0 0	0 0	0 0	0 0	0 1 1 0 0 1	0	0 1 0 1 1 0	0 0 0	0 0	0 0	0 0 0	0 0 0 0 0 0	0 0
333 42695.87775 334 42695.87775 Things that can't exist, like centaurs, magic, fairy tale quality	Something that tells me something about human beings, but there is something not currently possible like time travel	SF 0 F 1	0	0	0 0	0 0	0 0	0 0	0 1 0	1 0	-1 1 0 -1 0 0	0 0	0 0	0 0	0 0 0	0	0 1	1 0 0	0 0	0 0	0 0 0	0 1 0	J 0
 42695.87925 336 42695.87925 Fantasy, for me, is generally an alternate version of our world, current or past. It can look at 'what if' but generally only in those two contexts. 	The science has to be logical/explainable. It can be speculative, but that works best when set in the future.	SF 0 F 0	0	0	0 1	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 1	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0
337 42695.88553 338 42695.88553 Dragons, magic, vampires, but could be mixed with science too. Dystopia type books which seem mainly to be fantasy fiction include science fiction. 339 42695.88746	Futuristic science ideas usually Logical, technology, clear, reality	SF 0 F 1 SF 0	0	0	0 1	1 0	0 0	1 0	0 0 0	0	0 0 0	0 0	1 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 1 0 0	0 0 0	0 0 0	0 0
340 42695.88746 Mythology, supernatural 341 42695.88955	Any form of fiction science	F 0 SF 0	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	1 0	0 0 0	0 0	0 0	0 0 0	0 0 0	3 0
342 42695.88955 Usually the focus is on some form of magic, tends to not have a large technological focus. 343 42965.88977 No technology, some magic	Set in a future with technology that doesn't exist yet	F 1	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0		0 0 0		0 0	0 0 0	0 0 0	0 0
344 4299-38917 No technology, some magic 345 42995-89015 Magic, Wizards, monsters, fey creatures.	Aliens, technology, hard science	SF 0 F 1	0	1	1 0	0 0	0 0	0 0	0 0 0 0 1 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0		0 0 0	0 0		0 0 0	0 0 0	0 0
347 42695.89863 Specific genre structure (fantasy doesn't have to use magic) and specific writing styles. eg for big fat fantasy (heroic adventure) then I expect a lot of adjectives lined	Specific genre structure eg higher level of explanation, lower commitment to character development.	SF 0	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	1 0 0	0	0 0	0 0 0	0 1	0 0	0 0 0	0 0 0) 0
348 42695.89863 up like school children , two at a time.	Sci Fi involves technology and something that happens in the future. Books that may start off as Fantasy end up being Sci Fi by including technology eg Anne McCaffrey.	F 0	1	0	0 0	0 0	0 0	0 0	0 1 0	0	0 1 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 1	0 0	0 0 0	0 0 0	0 1
349 42695.9051 350 42695.9051 Fantasy usually involves mythological creatures; dragons, elves, dwarves, magic	I think of Aaronovitch's Rivers of London series as Sci Fi, rather than fantasy.	SF 0 F 1	0	0	1 1 0	0 0	0 0	0 0	0 0 0	0	0 0 0	1 1 0 0	0 0	0 0	0 0 0	0	0 1 0	0 0 0 0 0 0	0 0	0 0 0 1	0 0 0	0 1 0 0 0 0	3 0 0 0
351 42695-90632 352 42695-90632 Magic replaces technology (whether you understand the technology or not). 353 42695-91426	Technology that doesn't exist in our current world helps drive the plot.	SF 0 F 1	0	0	1 0	0 0	0 1 0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 1 0 0 0 0 0 0 0	0	0 0	0 0 0 0 0 0 0 0 0	0 0	1 0 0 0	0 0 0	0 0 0	0 0
354 42695.91426 Stories in worlds different to our own are relatable through "human" characters	- Setting i.e. futuristic settings	F 0	0	0	0 0	0 0	0 1	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	1 0 0	0	0 0	1 0 0	0 0		1 0 0	0 0 0	0 0
355 42695.92138 Fantasy elements i.e. things that don't exist in our world but aren't or aren't likely to be explained by science, including supernatural creatures or magic. Setting, a	Technology that doesn't exist in our world but could or might be explained by science,	SF 0	0		1 1		0 1		0 0 0	0	0 0 0	0 0	0 1	0 0	0 1 0	0		0 0 1		0 0	0 0 0	0 0 0) O
356 42695.92138 "typical" fantasy setting, even if the fantasy elements aren't front & centre.	For me science fiction can be of several types. 1. Fiction about science 2. Fiction set in the future. 3. Fiction speculating about scientific developments and their impacts. 4. Fiction using and responding to science fiction tropes used in the past, even if current science does not support those ideas (eq time travel). However, I	F 1	1	-1	0 0	0 0	1 1	0 0	1 1 1	0	0 0 0	0 0	0 -1	1 0	0 1 0	0	1 1	0 0 1	0 0	0 0	0 0 0	0 0 0	, 0
357 42695.92199 For me fantasy fiction contains recognisable fantasy elements such as magic and/or a secondary world or fairytale elements. Usually it recognisably draws on or	don't believe any genre can be exhaustively defined and that trying to establish the boundaries between genres is not particularly productive	SF 0	0	1	0 1	1 0	0 0	0 0	0 0 0	1	0 1 0	0 0	0 0	1 0	0 0 0	0	0 0	0 0 0	0 1	0 0	0 0 0	0 0 0	0 0
358 42695.92199 responds to other work in the genre. 359 42695.94366	That there is a cause to everything and not a creator.	F 1 SF 0	1 0	0	0 0	1 0	1 1 0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 1	0 0	0 0 0	0 0 0	0 0
The individual upbringing and child hood beliefs mould and shaped my idea of fantasy and fiction. Therefore any idea that goes against what I believe is fiction and 360 42695.94366 ideas that suggest parallel to my beliefs are fantasy.	Novels set in the future, robots, time and space travel, genetic manipulation	F 0	1	0	0 0	1 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0
361 42695.96938 Generally if there is any supernatural/magic I consider it fantasy but of course there are so many novels that contain both sci-fi and fantasy elements. In broad terms	In broad terms sci-fi is the possibility of the future, things that will one day exist. Eg Hitch-Hilker's Guide to the Galaxy = iPad	SF 0	0	0	0 1	0 1	0 0	0 0	0 0 0	1	1 1 0	0 0	0 0	0 0	0 1 0	0	0 1	0 0 0	0 0	0 0	0 0 0	0 0 0) 0
362 42695.96936 finitiasy is an escape, creatures and magic and 'impossible' things, a place to visit in my mind that will probably never exist but yet I wish it did. 363 42695.9793 The presence of magic, hands down. Character archetypes and plot structure are also.	Tricky, as Science-Fiction is arguably a far wider net than fantasy. A technology or event that alters society is probably the most basic necessary element.	F 1 SF 0 F 1	1 0 0	0	1 0	0 0	1 0	0 0	0 0 0	0	-1 0 0 0 0 0	0 0	0 0	1 0	0 1 0	0	1 1 0 0 0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0
365 42695,98579	Mostly spaceships.:) Virtual reality, technological dystopias, advanced Al systems, robots, travelling to other worlds, amazing technological advances, aliens, time travel, space travel	SF 0	0	0	1 0	0 1	0 1	0 0	0 0 0	1	0 1 1	0 0	0 0	0 0	0 0 1	0			1 0	0 0	0 0 0	0 0 0	0 0
Ooch, difficult question! My definition of fantasy is actually very broad, is text in the near future, but isn't concerned primarily with the technological advances? Is it a dysoplan future? Is there magic? Does a team of disparate people get together to save the workfurniense? Is there some Loverdraian horror furtining beneath the surface of somecne's boring suburban existence? Is there an alternate or parallel universelmagic found in the ordinaryla newfound power or abilitylan's upside-down?																							
366 42695.98579 Does anyone have any extrasensory ability? Then it's probably a fantasy novel.	SF is something that gives the impression that it could possibly happen now or soon or even into the far future even if the technological /science elements are	F 1	0	-			- '	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 1 0	1	0 0	0 0 0	1 0	0 0	0 0 0	0 0 0	3 0
367 42695.99377 Fantasy is an imagined world — either this one (past/present or future) where it is obvious that some of the technology and/or human abilities are simply not possible given our comprehension of scientific limits.	unexplained in the story.	SF 0	0	1	1 1	0 0	1 0	0 1	0 0 0	0	1 0 0	1 0	0 1	1 0	0 0 0	0	0 1	0 0 0	0 0	0 0	0 0 0	0 1 0) 0
given our comprehension of scientific timities. Note that I would look at the bible or any book about religious saints or miracles miracles as fantasy.																							
368 42695.99377		F 0	0	0	-1 1	0 0	0 1	0 0	0 0 0	0	-1 0 0	0 0	1 0	0 0	0 0 0	0	0 0	1 0 0	0 0	0 0	0 0 0	0 0 0	0 0
369 42695 59863 a story where things can happen that are not only impossible, but also non explainable (like magic) 371 42695 09832 a story where things can happen that are not only impossible, but also non explainable (like magic)	futuristic science and technology, or interpretations of those in other times (some steampunk for example)	SF 0 F 1 SF 0	0	0	0 0	0 0	0 0	0 0	0 1 0	0	-1 0 0	1 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0 0
372 42696.07832	Technologies or discoveries that are or promise to become understandable to humans (or other species) either now or in the future.	F 0	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0
	It is not necessary for that technology to have a current-day plausibility as ever being possible (e.g., time travel, FTL) — what seems impossible to science today has a way of changing, and we can give it the benefit of the doubt.	3																					
373 42696.11788	In addition, SciFi as a genre often focuses more on the technology as character and plot driver than the characters and their growth. (The better specimens do both).	SF 0	0	1	1 1	0 0	0 0	0 0	0 0 0	1	1 1 0	0 0	0 0	0 0	1 0 0	0	0 0	1 0 0	0 1	1 0	0 0 0	0 0 0	0 0
Magic or magical beings (including delties) accepted as part of the world, with consistent (if perhaps obscure) "physics" behind them (rules of magic, science of magic).																							
Given X is the case (e.g., magic of a particular nature), then everything else is logically laid out in the world and the characters.																							
The story is more about the characters than the technology of magic. 374 42896.11788 (Highly advanced science can masquerade as magic to lower cultures, potentially.)				4	0 0		0 4	0 1				0 0	0 0	0 0	1 0 0		0 4		4 0	0 0	0 0 0		
574 42090.11700 (Highly advanced science can masqueriade as magic to lower cultures, potentially.)	Suspension of disbellief, today's science projected into the future, based on Earth as it is known today or historically.		U		0 0	0 0	0 1	0 1	0 0 0	U	0 0 0	0 0	0 0	0 0	1 0 0	U	0 1	0 1 0	1 0	0 0	, , ,	0 0	, ,
375 42696.13397 Suspension of disbellef, elements that are clearly not explainable by physics or any other "reasoning" available to Earth, not based on Earth as it is known today or	Aliens & "magic" may or may not be involved.	SF 1	0	1	0 1	0 0	0 0	0 1	0 0 0	0	0 0 0	0 0	0 0	0 1	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0) 0
historically. 376 42696.13397 Magic & aliens or alien creatures may or may not be involved.		F 0	0	0	0 0	0 0	1 0	0 1	1 0 0	0	0 0 1	0 0	0 -1	0 1	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0
377 42696.23801	SF on the other hand, tends to need to rationalize the fantastic. Even magical systems in many books give way to ultimately being explained in scientific terms. Also rapidgement - to me character is more important than either and I enjoy both.	ot SF 1	1	1	0 0	0 0	0 0	0 0	0 0 0	0	1 0 0	0 0	1 1	0 0	1 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0
Fantasy offers unexpected or impossible ideas without as much focus on the reason. Fantasy offers magic, or alternate realities, or living folklore without worrying too 378 42696.23801 much about why. Fantasy says, ok - here's your new reality - go with it. Note this is not a judgement, just how I think of it. 379 42696.25706	Time travel and warp drives and the use or robots or computers	F 1	0	0	0 0	0 0	0 0	0 0	0 0 0	0	-1 0 0 0 0 0	0 1	0 0	0 0	0 0 1	0	0 0	0 0 0	0 0	0 0	0 0 1	0 0 0	0 0
380 42696.25706 swords and sorcery generally using ones mind or muscles to get things done 381 42696.26699	Taile traver and walp drives and sie use or roughs or computers	F 1 SF 0	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 1	0 0 0	0 0	0 0	0 1 0	0 0 1	1 0
382 42696.26699 383 42696.27239 384 42696.27379 Magic	No magic	F 0 SF -1	0	0	0 0	0 0	0 0		0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0		0 0 0			0 0 0	0 0 0	0 0
384 42696 2729 Magic 385 42696 27406 Swords, magic	Space ships, technology	F 1 SF 0 F 1	0	0	1 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0 0 0 0 0 0 0 0	0 0	0 0	0 0 0	0 0 0	3 0
387 42696.27557 If it has elves, or dragons, or magic, it is usually fantasy.	Space. Alternate universes. Lasers. Aliens. People getting weird diseases.	SF 0 F 1	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 1	0 0	0 0	0 0	0 0 0	1 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0
389 42696.30988 Of course Clark's law "Any sufficiently advanced technology is indistinguishable from magic" says that he division between magic and science is arbitrary, but to me,	Science-and I include social/psychological "soft" sciences as well as chemistry, physics, and genetics—that underpins the world and its machinations is the hallmark science fiction. If this happens, and if this goes on both count.	OF 0	0	1	0 0	1 0	0 1	0 0	0 0 0	0	0 0 0	1 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	0 0
390 42696.30988 "magic" is an element of fantasythat is, things not physically possible in the physics of the universe hat happen because of belief/prayer/ritual. 391 42696.31442	Sciencel A consistent and believable alternative or future world, grounded in plausible (at least plausible, ideally possible / probable) science.	F 1 SF 0	0	0	0 0 0 1	0 0	1 0 0 1	0 0	0 0 0	0	-1 0 0 1 0 0	1 0 0 0	0 0	0 0	0 0 0	1	0 1 0 0	0 0 0	1 0 0 0	0 0	0 0 0	0 0 0	0 0
392 42696.31442 Magic, blokes in pointy hats doing whatever they want to a bunch of nameless nobodies.	My personal definition is that sci-fi (particularly "hard sci-fi") has technology - ray guns, space ships, intergalactic travel, alien races, hard science etc.	F 1	0	0	0 0	0 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0	0 0 0) 0
393 42696.33864 Fantasy usually has mythical beasts, or magic, and/or is set in a low (or no) technology world; be it the past or some post-apocalyptic future such as in Moorcock's		SF 0	0	1	1 0	0 1	0 0	0 0	0 0 0	1	0 0 1	0 0	0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 0	0 0 0	0 0 0	3 0
394 42696.33864 "Hawkmoon" books. 395 42696.34997	Technology and society that is beyond what exists in real life	F 1	0	0	-1 1 1 0	0 0	0 1	0 0	0 0 0	0	0 0 0	0 0	1 0 0	0 0	0 0 0	0	0 0	0 0 0	0 0	0 1 0	0 0 0	0 0 0	0 0
396 4266.3497 Technology. If it's less than or equal to current technology it's fantasy. Magic helps to 397 4266.38479	looking forward into the evolution of humanity, plot elements involving science or cosmology, time travel, alternate timelines, space travel, unexplained phenomena, human interaction with technology, social effects of technology, aliens	F 1	0	1	-1 0 1 1	U 0	0 0	0 0	0 0 0	0	0 0 0	0 0	0 1	0 0	0 0 0	0	0 0	1 0 0	0 0	1 0	0 0 0	0 0 0	0 0
Use of magic (eg: spells and potions), dragons and magical beasts, looking to past forms of social structure eg: Medieval times, heroes on a quest facing dark forces 42696.38479 swords, archery and martial arts		F 1	0	0	0 0	0 0	0 0	1 0	0 0 0	0	0 1 0	0 0	0 0	0 0	0 0 0	0		0 0 0	0 0	0 0	0 0 0	0 0 1	1 0

399 4/995 5093	Future tech or locations, discovery and exploration, alien encounters, space travel.	QF.	0 0		1 () 0	1 0	0 0	0 0	0 0	1 (0 0 1	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0		0 1
Historical style setting, existence of magic or creatures of myth and fantasy, complex cultures that are not identical to existing ones, great journeys. (Note: these at neither mutually exclusive nor all required. An example is Swordpoint by Ellen Kushner which was clearly fantasy and fit the historical-style and complex cultures be	re	SF	0 0	, ,	1	, 0		0 0	0 0	0 0	,	0 0 1	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0		, ,	0 1
400 42696.50383 had no magic.) 401 42696.5231	Where things are clearly based within the modern world, or an alternate version of it. Where the explanation for technology is grounded is science (or faux science) a where the scientific elements of the story are relevant to exploring the concept.	F and SF	1 1	0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0 0	0 0 0	0 0 0	0 1	0 0	0 0	0 0 1	0 0	0 0	0 0 0	0 0	0 0
Elements that don't have a scientific explanation. You can have a magic gun or a gun that seems like it has magical properties but really it's super high tech.																							
Books that might have both those guns I tend to categorise as fantasy because the lack of scientific explanation for the use of the magic gun means it doesn't fit 402 42696.5231 wholly into soft (and soft is a subset of fantasy). 403 42696.56015	High degree of technology and/or technical jargon: reflecting technology that is beyond the current state at the time of writing	F SF	1 0	-1	0 (0 0	0 0	0 0	0 0	1 0	0 0	0 0 0	0 0 0	-1 0 0 0 0 0	0 0	1 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
404 42696.66015 Supernatural forces at play, often with some sort of utopian ideal (which may be realizable or unrealizable in the book, but is at least suggested) 405 42696.72388	Code. Space. Interrelated travel. Alien.	F SF	0 0	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0 1	0 0 0	0 0	1 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
406 42696.7238 Swords. No electricity. Magic. Treasure. Campfires. This is fantasy. 407 42696.73821	A small number of definable or identifiable steps between our world and the world the book portrays. The reader can identify with the world but also the writer is constrained by it and consequently has to make the plot fit.	F	1 1	0	0 (0 1	0 0	0 0	0 0	0 0	0 (0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 1	0 0
Lack of rules in how the world works: both genres work in different worlds to our own, but theres usually only a few steps away in sci fi (maybe decades in the future 408 42696.73821 the presence of a single invention). With fantasy it's anything goes.	re or	F	0 0	. 0	0 1		0 0	1 0	0 0	0 0	0 (0 0 0	0 0 0	0 0 0	0 0	0 0	0 1	0 1 0	0 1	0 1	1 0 0	0	0 0
409 42666 54086 410 42696 54086 structured as mythology, return to the sacred/bellef, premodern. 411 42696 58513	commentary on technology and science, modernism, speculation of the future.	SF F	0 0	0 0	0 0	0 (0 0	0 0	0 0	0 0	0 0	0 0 0	0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
411 4299-99513 412 42996-99513 a world close to the real world, but with things we don't see as reality	if the story is not yet possible, but might become reality in the (near) future Technology!	F	0 0	0	0 0	0 0	0 0	1 0	0 0	0 0	0 (0 0 0	0 0 0	0 0 0	0 0	1 0	0 0	0 0 0	0 0	0 0	0 0 0	0	0 0
	In science fiction there is always amazing and wondrous technology! The stories generally seem to involve multiple worlds or different worlds and whilst the science of the technology might be a bit shakey or theoretical, there is always	а																					
413 42897.02829	solid basis for it that makes it passably believable. The scale of these stories can generally encompass entire space nations spanning multiple planets and is generally much larger.	SE	0 0	1	1 (1 1	1 0	1 0	1 0	0 0	0 (0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	1 1 0		0 0
Magic, but in a way where it is obviously distinguishable from science in that the magic users are mystical and secretive about their art and there is no need to just or explain any of it.	fy																						
The "standard" set of fantasy races go a long way to helping classify this genre too.																							
Generally the story itself is in a very low or current technology world (so miracles of science indistinguishable from magic aren't even possible)																							
414 42697 02929 The scale of these tales generally only covers a "few kingdoms" or a single world 415 42697 19622 2 416 42697 19622 Ould its elements plausibly exist, putting aside suspension of disbellef? If not likely, fantasy.	Could its elements plausibly exist, putting aside suspension of disbelief? If so, SF	F SF	1 1	-1	0 0	0 0	0 0	1 0	1 0	0 0	0 1	1 0 0	0 0 0	1 1 0	0 0	0 0	0 0	0 0 0	0 1	0 0	0 1 1	0 0	0 0
410 42697.3313 417 42697.3313	Realistic about what we are and know yet not constrained by it	SF	0 0	. 0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0 0 0	0 0 0	0 0 0	0 0	1 0	0 0	0 0 0	0 0	0 0	0 0 0) 0	0 0
418 42697.3313 magic and mystery usually set in a simplistic Arthurian time or mindset 419 42697.46089	The science elements are front and center and pivotal. Without them, the story collapses.	F SF	1 0	0	0 0	0 0	0 0	0 0 0 0 0 0	0 0	0 0	0 0	0 1 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 1	0 0 0	0 0	0 0
420 42697.46089 Fantasy invokes fantastical speculation thorough elements that seem far removed from classical science disciplines.	Space dimensions / aspects Space / time travel	F	0 1	-1	0 (0 (0 1	0 0	0 0	0 0	0 (0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0	0 0
	Clash of science and the humanities Huge moral questions																						
421 42697.53537 Superstition, dragons, magic I don't really like fantasy, too many rules (powers) and history (warring factions) to learn	Makes you think about what you would do or how you would handle it	SF	0 0	1	0 (0 .	1 0	0 0	0 0	0 0	1 (0 1 0	0 1 0	0 0 0	0 0	0 0	0 0	1 0 0	0 0	0 0	0 0 0	0 0	0 0
Folklore stereotypes 422 42697.53537 Boring		F	1 0	0	0 0	0 0	0 0	0 1	1 0	1 0	0 (0 0 0	0 0 0	0 0 0	0 0	1 0	0 0	0 1 0	0 0	0 0	0 0 0	0 0	0 0
423 42697.63087 Sinc Modaster Bujold who is known to write in both camps once said that making a distinction between fantasy and science fiction can be difficult to define as they both tend to overlap. She said one the ways you know something is fantasy is that it tends to have a an element of paranormal/mysticism (ahem, see Obi-Wan Ke	I'm two sentences in and I'm already bored and wondering what the hell made me pick up this book, let alone buy it. Then I remember, I hate sci-fi.	SF	0 0	0	0 (0 (0 0	0 0	0 0	0 0	0 (0 0 0	0 0 1	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0	0 0
com tend to overlap. She said one the ways you know something is fantasy is that it tends to have a an element of paranormalimysticism (anem, see Uti-vvan Kel doing the walking dead on Dagobah - or anything to do with The Force really)	000																						
As for me, Fantasy, good fantasy that is, makes me feel like I've come home. The saying that there's no better feeling than getting lost in a good book That's who 424 42697.63087 good fantasy does for me.		F	0 0	0	0 0	1 (0 1	0 0	0 0	1 0	0 (0 0 0	0 0 1	0 0 0	0 0	1 0	0 1	0 0 0	0 0	0 0	0 0 0	1 1	0 0
425 42697.67328 Something beyond our reality	Plausibility, use of technology The characters and setting usually concerns space travel and /or encounters with alien beings. The technology is usually very far advanced from the current level of	SF F	0 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0 0 0	0 0 0	0 0 0	0 0	1 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
427 42698.21581 The setting and characters do not conform to the laws of science as we know them. The social / societal structure is different from the ones we know in "the real	technology in "the real world."	SF	0 0	-	1 (-		1 0	0 0	0 0	1 (0 0 1	0 0 0	0 0 0	1 0	1 0	0 0	0 0 1	1 0	0 1	0 0 0	0 0	0 0
428 42698.21581 world." The trick for a good author is to make these ideas and settings believable.	I think Science Fiction takes a concept (or multiple) in today's world and projects what that would be like in some future setting. It explores the consequences of that, science Fiction is telling a story about the present. It deals what could be if certain things were allowed to happen, and allows us to make choices on whether this is	80	0 0	1 -1	0 (0 (0 0	1 0	0 0	0 0	0 (0 0 0	0 0 0	0 0 0	1 0 -	1 0	0 0	0 0 1	0 0	0 0	1 0 0	1 0	0 0
	good or not. The difficulty in categorising science fiction is that the further forward you project the more something feels like magic and hence would then be fantasy. Additionally,	, in																					
429 42699.66044 Any invocation of the supernatural or mythology is fantasy for me. Introducing concepts like magic or mysticism is fantasy. Fantasy has an element of myth to it, it	the past writers have made certain projections forward that, at the time, they might have believed is possible but we now regard as impossible - am thinking of Edgar Rice Burroughs Mars books.	SF	1 0	0	0 1	1 1	0 0	1 0	1 0	1 0	0 1	1 1 0	1 1 1	0 0 0	0 0	0 0	0 1	0 0 1	0 0	0 0	0 0 0	1 1	0 1
430 42699.66044 reminds us of mythology and tells stories about people in those mythologies in a unique and interesting way	Again tropes of content and style Space travel, aliens, time-machines etc though maybe the tropes here dictate the style? They seem to be more integrative or can be	F De.	1 1	0	0 0	0 0	0 1	0 0	1 0	1 0	0 (0 0 0	0 0 0	0 0 0	0 0	0 0	1 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
431 42600 73044R	For instance (again) take Michael Moorocck and "The Nomad of the Time Stream" novels in which he uses a 19th Century style in order to capture a particular time because of the time travel element. Or Ted Chiang's "Story of Your Life" which is told in the 2nd person future for quite a lot of the story reflecting the change in																						
431 42599.79948 I'm of the school that thinks that genre is created through tropes. So that might include tropes of content: dragons, elves, swords etc. or tropes of style: 432 42699.79948 attempts at old-fashioned diction and long battle scenes.	perception of time that the main character has because of learning a new language.	SF F	0 0) 0	0 () 0 1	0 0	0 0	0 0	0 0	0 (0 0 0	0 1 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0) 0	1 0
433 42700.79582 434 42700.79582 Magic, fantasy worlds and creatures.	Space, technology, robots, futurism.	SF F	0 0	0	1 1	0 0	1 0 0 0	0 0	0 0 0 1	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
425 42703.05037 436 42703.05037 Science is generally replaced by magic. Creatures other than human are sentient.	Mostly it is about scientific knowledge and technology. It may also be an examination of mankind's place in the universe. It should always be thought provoking even aside from adventurous. For me a fantasy novel only needs to be an adventure.	SF F	0 0	1 1	1 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 0	0 0 0	0 1 0	0 0	0 1	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
437 42703.08257 438 42703.08257 If the logic of the world does not map in some way onto the logic of our world.	It's not fantasy.	SF F	0 -1	0	0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
439 42705.06396 I don't particularly do this. I don't work with a strong sense of 'fantasy' as a genre. I suppose it is because i like books where whatever 'magic' there is, has a plau	Curiously, I do have a stronger sense of this - and it is becuase my wife and I used to read a lot of this in the 1960s. SF is intergalactic - not in a literal sense, but it is definitely 'outwards bound'.	s SF	0 0	0	0 0	0 0	0 0	0 0	0 0	0 0	0 (0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
account to drive it. Ursula LeGuin is good at this, and I like her work a lot. Within her world, all is believable. funny thing is, I didn't feel that about Philip Pullman, v 440 42705.06396 again came across as too preachy.	vho	F	1 0	0	0 0	0 0	0 0	1 0	0 0	1 0	0 (0 0 0	0 0 1	0 0 0	0 0	0 0	0 1	0 0 0	0 1	0 0	0 0 0	0 0	0 0
441 42709.69657 442 42709.69657 Fartasy is speculative fiction that bases the laws of the universe around impossibilities in reality. 443 42709.79084	Sci-fi is speculative fiction thatbases the laws of the universe around possibilities in reality. Spaceships, technology, how the use of tech impacts on people (or whatever their race is called) and their society	SF F SF	0 0	0	0 0	0 1 0	0 0 0 0 1 0	0 0	0 0	0 0 0 0 0	0 -	1 0 0 1 0 0 0 0 0	0 0 0	0 0 1 0 0 1 0 0 0	0 0 0 0	1 1	0 0	0 0 0		0 0 0 0 0	0 0 0	0 0	0 0
 444 42709.73084 If the main theme is related to dragons, living with dragons, magic and witchcraft, anything supernatural, combination of these. 445 42709.77361 	Science. Politics in space, space ships, people who have power through weaponry or technology rather than unexplained powers, future setting.	F SF	1 0	0	0 0	0 1	0 0			0 0	0 0	0 0 0	0 0 0		0 0			0 0 0	0 0	0 0	0 0 0	0 0	0 0
446 42709.77361 Dragons, magic, elves, items that have supernatural powers, people with supernatural powers, story lines that rely on things that can't be explained by science. 447 42709.79897	Based on fact. Whether it remains on fact or not is another thing as we're still discovering what's possible in science, but if it has a structure of fact in it, then it's scientificion	F nce SF	0 0) -1	0 0) 0 (0 0	0 1	1 0	0 0	0 (0 0 0	0 0 0	1 0 0	0 0	0 0	1 1	0 0 0	0 0	0 0	0 0 0	0	0 0
Where an element needs to be explained to the reader - where the world or what's common there needs to be explained in detail to the reader. Like the magic sys etc. If it's something that we can kinda understand happening (like space travel) then it's more science fiction, but if it's something like travelling through portals by	tem,	JI.	0 0	. !	J (0 0			0 1			0 0 0	0 0		0 1		0 0	5 0			
448 42709.79897 assistance or blood/spells etc., then it's fantasy. 449 42710.44508 Pastasy is registed in belief - you don't need to know why something works the way it does it just does	Science fiction always has a plausible answer, even if the story doesn't make it explicit.	F SF	0 0	0	0 0) 1	1 1 0 0	1 0	0 0	1 0 0 0 0 0	0 1	0 0 0	1 0 0	1 0 0	0 0	0 0	0 1	0 0 0	0 0	0 0	0 0 0	0 1	0 0
	Science is a good start, but doesn't have to be 'hard' science. Extrapolation from our existing world to consider where it might go. Sci fi is anchored, if sometimes loosely, in our real world, is an augmentation of our real world. While fantasy doesn't necessarily have that same anchor (and yet fantasy is drawn from our world, jus	st							0 0													, ,	0 0
451 42710.86004 If SolF1 is extrapolation, taking our current world and extrapolating it out to what might be in the future, fantasy is anything not somehow based in the 'real world'. () 452 42710.86004 must still comment on it.) It is an alternative to reality, not a sol fi augmentation on it.	in less concrete ways). Yet it			1 0	0 1	0 1			0 0	0 0	0 (0 1 0	0 0 0	0 0 0	0 1	1 0	0 0	0 0 0	0 0	0 0	0 0 1	0	0 0
453 42712.98868	Science fiction, on the other hand, is more of a socio-political commentary that takes aim at the government and economic policies rather than at the individual. Again the author may or may not realize that they're doing it, but it's they're for those who look for it.	in,	0 0		0 0		0 0	0 0	0 0	0 0	0 (0 0 0	0 0 0	0 0 0	0 0	1 0	0 0	0 0 0	0 0	0 0	0 0 0) 0	0 0
Fantasy, whether it means to be or not, is more of an individualistic or social commentary on the times in which we live. The author probably doesn't even realist 454 42712.98888 they're doing it, but it comes through in the stories.		F	0 0	0	0 0	0 0	0 0	0 0	1 0	0 0	0 (0 1 0	0 0 0	0 1 0	0 0	1 0	0 0	0 0 0	0 0	0 0	0 0 0	0 0	0 0
	A story based on a technology that can be explained/extrapolated, rather than one that can't. (As I said above, however, I think science fiction is a sub-genre of fantasy.)																						
455 42717.77381 A world that is not like ours. A world that has things that can't happen in our world.	A story set in space tends to be science fiction.	SF	0 0	0	1 (1 1	1 0	0 0	1 0	0 0	0 (0 0 0	0 1 0	1 0 1	0 0	0 0	0 0	0 0 0	0 1	0 0	0 0 0	0 0	0 0
456 42717.77381 Also note, that I tend to think of science fiction as a sub-genre of fantasy, and I'm quite partial to novels with a mix of both in it.	Space	F	0 0	0	0 0	1 (0 0	1 0	0 0	1 0	0 -	1 0 0	1 1 0	0 0 0	0 0	0 0	0 1	0 0 0	0 1	0 0	0 0 0	0 0	0 0
VES. 1971 A0070	Spaceships Aliens																						
457 42717.95273 Swords Angels and Demons	Science and Technology	SF	0 0	1	1 (0	1 0	0 0	0 0	U 0	0 (U 0 1	0 0 0	0 0 0	0 0	υ 0	0 0	0 0 0	0 0	U O	0 0 0	0	υ 0
Magicians and Witches 458 42717.95273		F	1 0	0	0 0	0 (0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	0 0 0	0	0 0
459 42737.02704 Think that is there is a mystery, something unknown without a specific reference to the most common soil tropes, I tend to read the novel as a fantasy novel. Eg. read The City and The City by China Méville for a course and eventhough there is no spesific fantasy tropes in the novel, I read it as a urban fantasy because of the course of the cou	Technology, obvously. Space, different planets, time travel.	SF	0 0	0	1 (0 0	1 0	0 0	0 0	0 0	1 (0 1 0	0 0 0	0 0 0	0 0	0 0	0 0	0 0 0	0 0	0 0	1 0 0	0	0 0
460 42737.02704 mysterous feel of the book. 461 42756.36861	For me, I'd be good with unicoms and pegasi if there were a physics-based explanation for them.	F SF	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0 0	0 0	0 0 0	0 1 1 0 0 0	0 1 0 0 0 1	0 0	0 0	0 1 0 0	0 0 0	0 0	0 0	0 0 0	1 0	0 0
For me, science fiction is based in physics as currently understood. Fantasy gets to break the rules of physics.		F	0 ~					0 0						0 0 1								, ,	0 0
462 42756.36861 If science fiction wants to break rules, a machine or something has to be invented to allow that to happen.	Anything that could plausibly happen in the future, or present, or even past, within the realms of believable scientific possibilities but thus far our knowledge limits have not confirmed it IS possible. For instance, space-ships that can take us to another galaxy in the future; time travel (despite it all, I still find it plausible that somehow it	ve it																					
463 42817.99625 Anything that is not based on reality and I would not reasonably expect that it ever could be reality eg. vampires, warewolves, people being able to fly or have 464 42817.99625 "supernatural" abilities.	could happen but we haven't discovered how yet); etc.	SF F	0 0	1	0 1	0	1 0	0 0	0 0				1 0 0	0 1 0	0 0		0 1				0 0 0		0 0
464 42817.99625 'supernatural' abilities. Cateoorisation Data For Table 4: Responses to 'What makes a story science fiction?' (SF) and 'What makes it fantasy?' (F). Coded as 1 = is present, 0 = not mentioned1 = no	or present. Data is in Paired Sets of Responses	r	υ 0	, 0	υ (, , ,	. 0	υ 0	υ 0	U U	υ (. u 0	U U 0	υ 0 1	U 0 -	. 0	1 1	0 0 (υ 0	0 0	U 0	, 0	U U

Categorisation Data For Table 4: Responses to 'What makes a story science fiction?' (SF) and 'What makes it fantasy?' (F). Coded as 1 = is present, 0 = not mentioned, -1 = not present. Data is in Paired Sets of Responses

NOTE: A word frequency analysis of the full responses was used to identify the categories to be coded. These were consolidated based on similarity e.g. 'possible' and 'plausible' consolidated to 'possible', 'magic' and 'magical' consolidated to 'magic'.

Multiple use of terms in one response were recorded as one instance for categorisation purposes. Occurrence as a gener label alone was discounted.