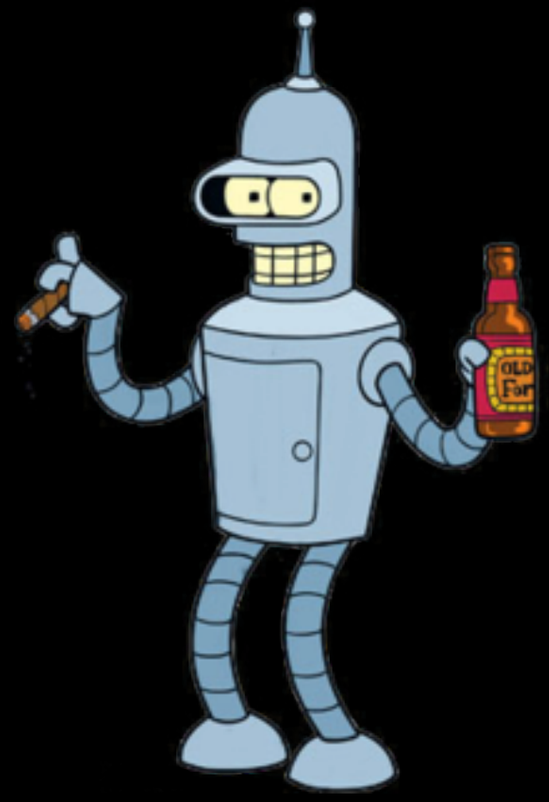
The hero with (several) thousand faces

Agreeableness

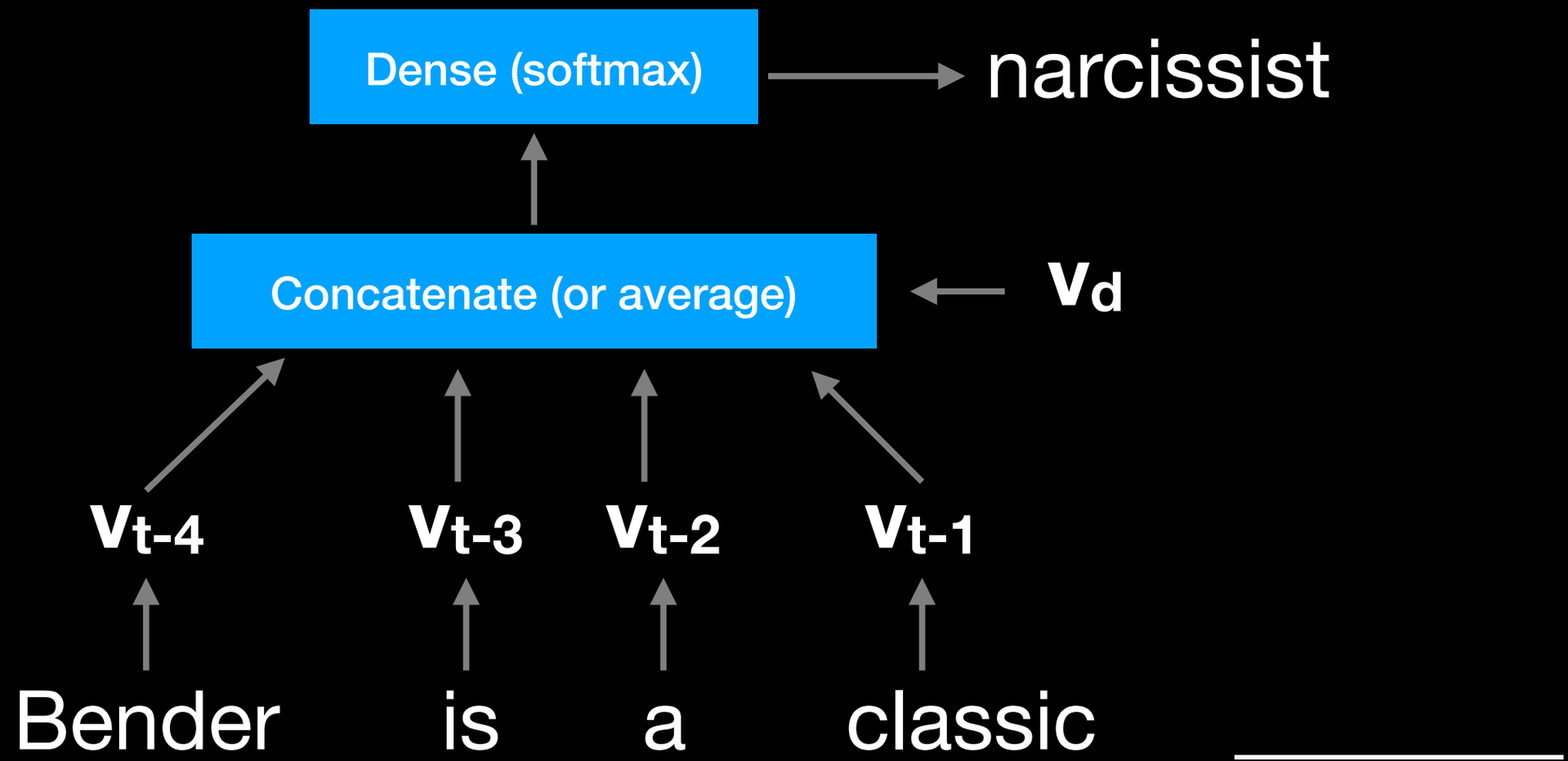


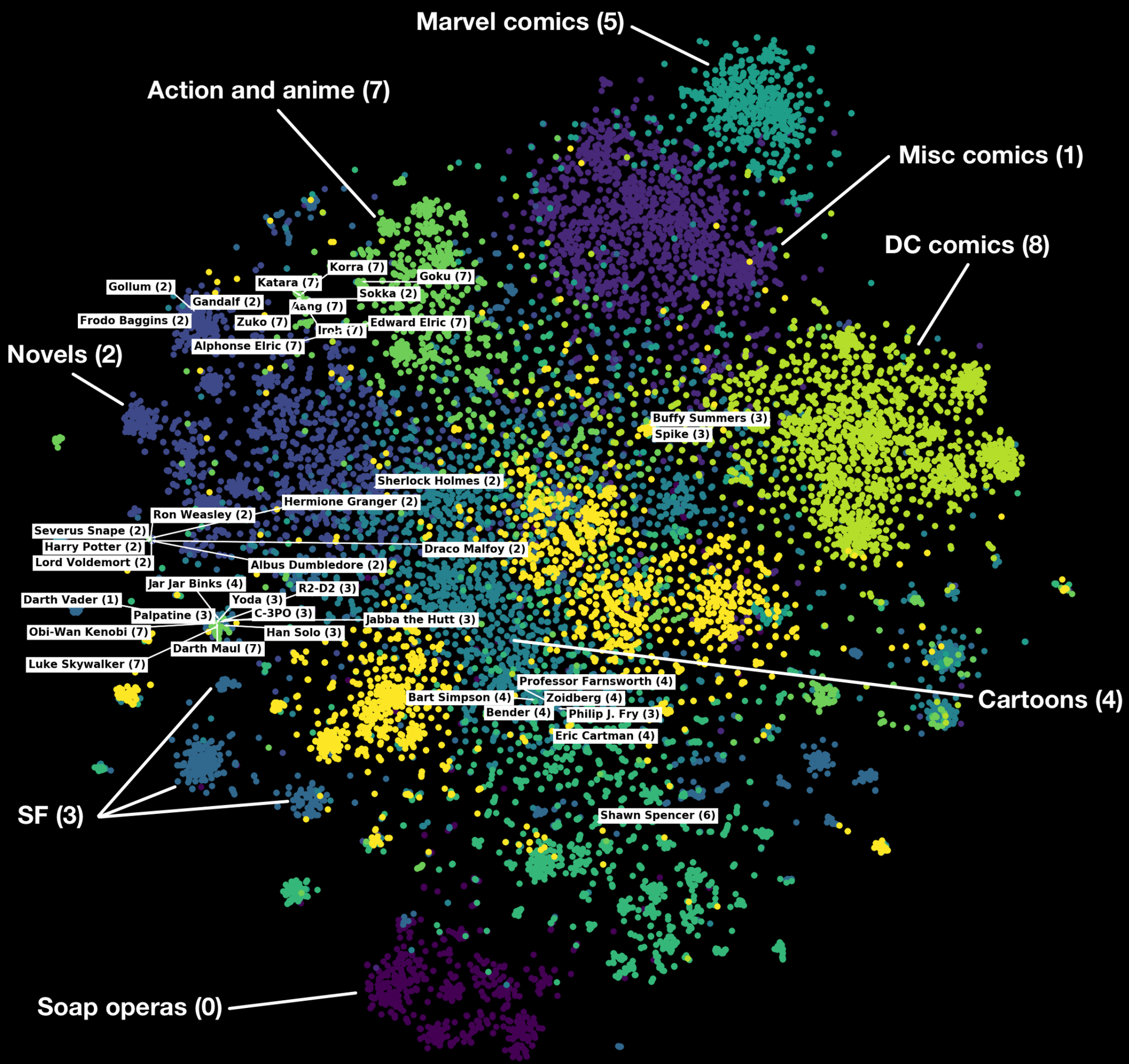
Sociopathy

Data set

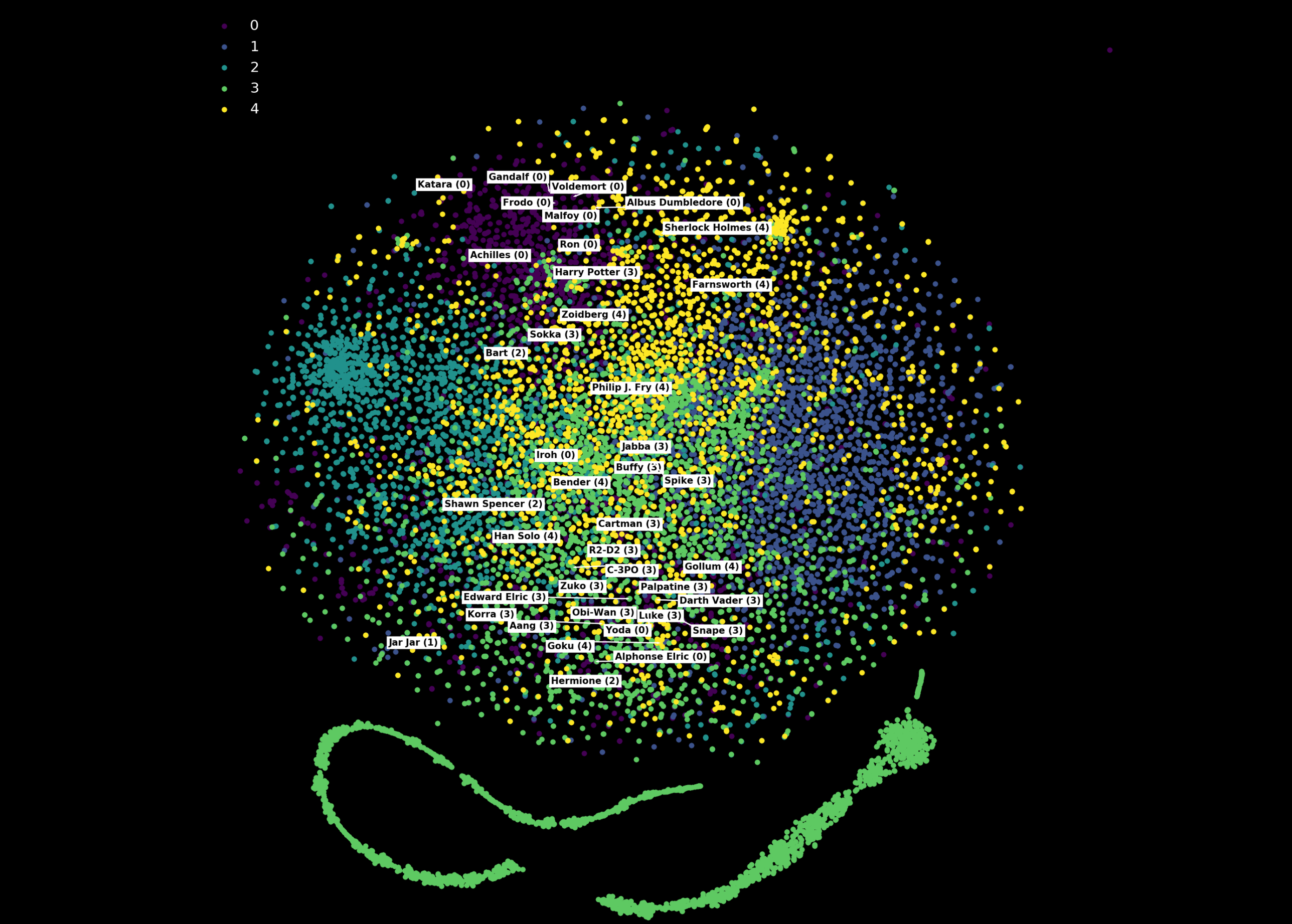
- ~14,000 character articles from Wikipedia
- 23,616,309 raw words
- 1 to 5 million relevant ones

Doc2Vec


Dense (softmax)
narcissist
Concatenate (or average)
Vd
Vt-4
Vt-3
Vt-2
Vt-1
Bender
is
a
classic
_____


Marvel comics (5)
Action and anime (7)
Misc comics (1)
DC comics (8)
Novels (2)
Cartoons (4)
SF (3)
Soap operas (0)
Korra (7)
Goku (7)
Katara (7)
Sokka (2)
Gollum (2)
Gandalf (2)
Aang (7)
Frodo Baggins (2)
Zuko (7)
Edward Elric (7)
Iroh (7)
Alphonse Elric (7)
Buffy Summers (3)
Spike (3)
Sherlock Holmes (2)
Hermione Granger (2)
Ron Weasley (2)
Severus Snape (2)
Harry Potter (2)
Draco Malfoy (2)
Lord Voldemort (2)
Albus Dumbledore (2)
Jar Jar Binks (4)
R2-D2 (3)
Darth Vader (1)
Yoda (3)
Palpatine (3)
C-3PO (3)
Jabba the Hutt (3)
Obi-Wan Kenobi (7)
Han Solo (3)
Darth Maul (7)
Luke Skywalker (7)
Professor Farnsworth (4)
Bart Simpson (4)
Zoidberg (4)
Bender (4)
Philip J. Fry (3)
Eric Cartman (4)
Shawn Spencer (6)

"<SUBJECT> is the mad scientist proprietor of the <ENITY> delivery service , for whom the main characters work ."


0
1
2
3
4
Katara (0)
Gandalf (0)
Voldemort (0)
Frodo (0)
Albus Dumbledore (0)
Malfoy (0)
Sherlock Holmes (4)
Ron (0)
Achilles (0)
Harry Potter (3)
Farnsworth (4)
Zoidberg (4)
Sokka (3)
Bart (2)
Philip J. Fry (4)
Jabba (3)
Iroh (0)
Buffy (3)
Bender (4)
Spike (3)
Shawn Spencer (2)
Cartman (3)
Han Solo (4)
R2-D2 (3)
C-3PO (3)
Gollum (4)
Zuko (3)
Palpatine (3)
Edward Elric (3)
Darth Vader (3)
Korra (3)
Obi-Wan (3)
Luke (3)
Aang (3)
Yoda (0)
Snape (3)
Jar Jar (1)
Goku (4)
Alphonse Elric (0)
Hermione (2)

Raw text similarity

```
1  model.docvecs.most_similar('Yoda')
```

```
[('Obi-Wan Kenobi', 0.8464793562889099),
 ('Count Dooku', 0.8301168084144592),
('R2-D2', 0.8243268132209778),
('Qui-Gon Jinn', 0.823263406753 54),
('C-3PO', 0.8140591382980347),
('Luke Skywalker', 0.8125448822975159),
('Palpatine', 0.7923175096511841),
('Admiral Ackbar', 0.7624970078468323),
('Darth Maul', 0.7532809376716614),
('Jar Jar Binks', 0.7466059923171997)]
```

Filtered text similarity

```
1  d2v_model.docvecs.most_similar('Yoda')
```

```
[('Qui-Gon Jinn', 0.6633567810058594),
 ('Luke Skywalker', 0.616747498512268l),
('Optimus Prime', 0.610719025135040 3),
('Scourge (Transformers)', 0.5825557708740234),
('Kanan Jarrus', 0.5685822367668152),
('Zuko', 0.5668112635612488),
('Gimli (Middle-earth)', 0.565727710723877),
('Mokujin', 0.5602509379386902),
('Albus Dumbledore', 0.553769826889038 1),
('Beorn', 0.5510784387588501)]
```

Future directions

- I still have mistags and other noise.
- Implement Doc2Vec in Keras/Tensorflow.
- Improve sentence extractor and apply to plot summaries.
- Understand at the axes of the space (axis of evil, et cetera).