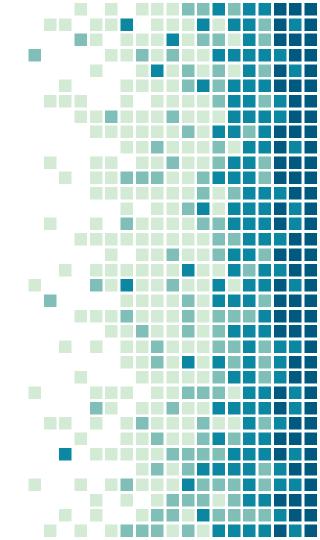
Comparing groups of texts

Joanna Byszuk, Artjoms Šeļa and Maciej Eder

Budapest workshop

Craig's Zeta in Stylo

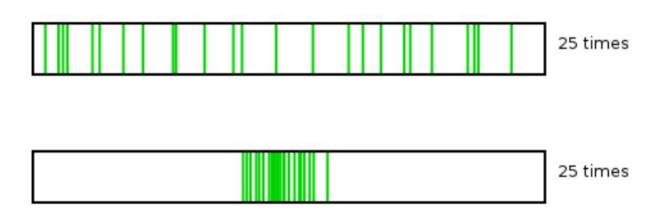


About Craig's Zeta

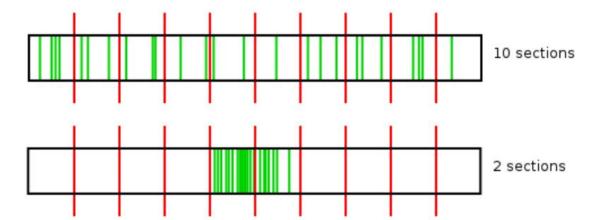
Frequencies matter

 Zeta focuses on CONSISTENCY of appearance of a word/feature in the text

Distribution matters



Distribution matters



Craig's Zeta - how to

- Take a corpus, split it in two you hypothesize are different in a significant way
- Slice each text into smaller sections
- See if the word is there

Craig's Zeta

$$\zeta_{(a,b)} = \left(\frac{f_{(a)} - f_{(b)}}{100}\right) + 1$$

$$\zeta_{(a,b)} = \frac{f_{(a)} - f_{(b)}}{f_{(a)} + f_{(b)}}$$

f(a) – frequency in section 'a'f(b) – frequency in section 'b'

Calling the function

oppose()

Or if it's not in English:

oppose(encoding = "UTF-8", corpus.lang = "Spanish")

Calling the function

Parameters to consider

- Slice length: size (in words) of the samples (5000)
- Slice overlap: (0)
- Method: (Craig's Zeta)
- Visualization: type of graph (Markers / Words)

Comparing corpora in lexis

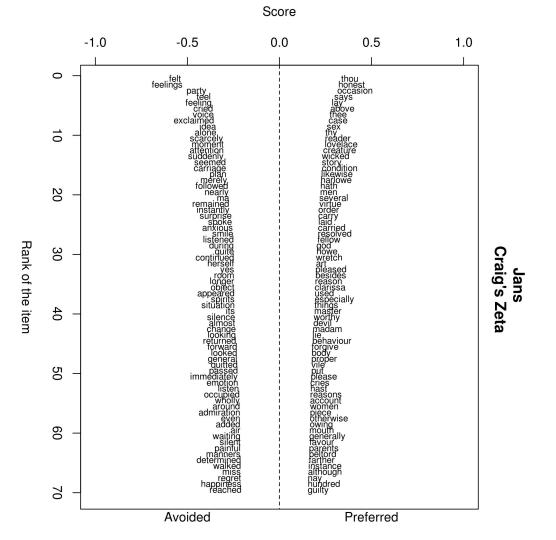
primary_set

One group of texts (e.g. texts by one author)

↓ words_preferred secondary_set

Another group of texts (e.g. different author)

words_avoided



Comparing corpora in lexis



Comparing corpora in markers

primary_set

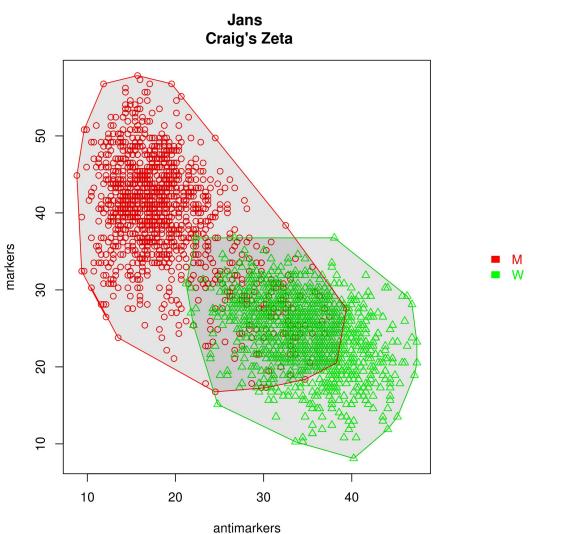
One group of texts (e.g. texts by one author)

A group of marker points

secondary_set

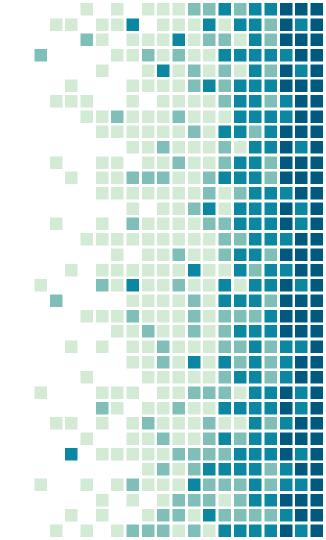
Another group of texts (e.g. different author)

Another group of marker points



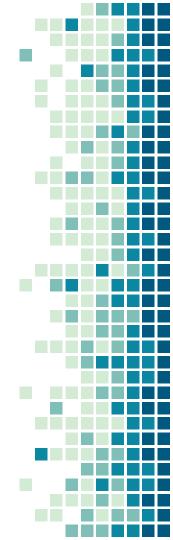
Comparing corpora in markers

Applications



Applications

- Comparing discourse markers
- Seeing how distinct two groups really are



Case study: the tale of two showrunners

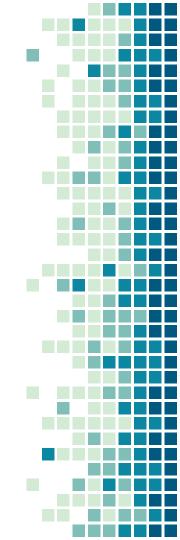
Discourse in TV shows

Who writes TV shows?

9 seasons of Doctor Who = 26 screenwriters What about directors?

Script editors?

... actors?



Showrunner – the producer who actually [holds] ultimate management and creative authority for the program (...) the boss, the hard-nosed operational manager responsible for all creative aspects of a show and who runs interference with the studios and the networks.

Shane Bannon

https://www.theaustralian.com.au/arts/getting-the-run-of-the-place/news-st ory/78b6658bc660728f73a2def314a3788



Doctor Who (1963 –)

1963-89 'Classic' series

focus on the main character

1996 Film

2005-? revival of the show: New/Nu series

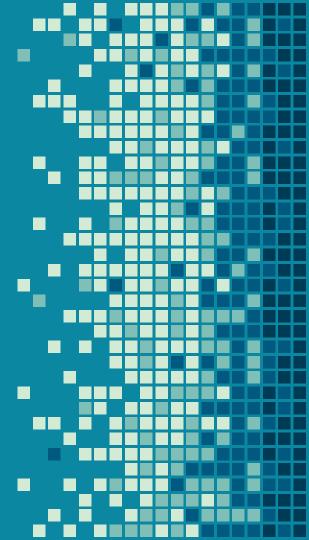
 transition to authorial – American model, increased role of a showrunner

might change at least 30 per cent of the material, often 60 per cent, sometimes almost 100 per cent. I go over every line of dialogue, either adding new stuff or refining what's there; sometimes that means enhancing a line that the original writer hasn't realised is good. I'll bring out themes, punch up moments, add signature dialogue, clarify stage directions and make cuts. To every single scene, if need be. Usually, the basic shape remains intact, but sometimes I'll invent brand new characters and subplots... while at the same time remaining faithful to the original writer. I'll even impersonate them.



what you're there to do is to say in different ways every single day, to send out a consistent message: this is the show we're trying to make, it's like this.

Steven Moffat



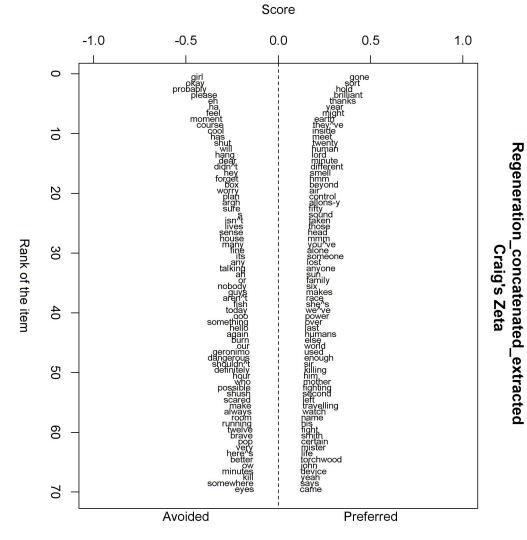
An episode dissected

1 episode of Doctor Who - from 4 to 7 thousand words,

Doctor's lines - on average 1,5 to 2,8 thousand words,

A companion's lines - on average 500 to 1 thousand words.





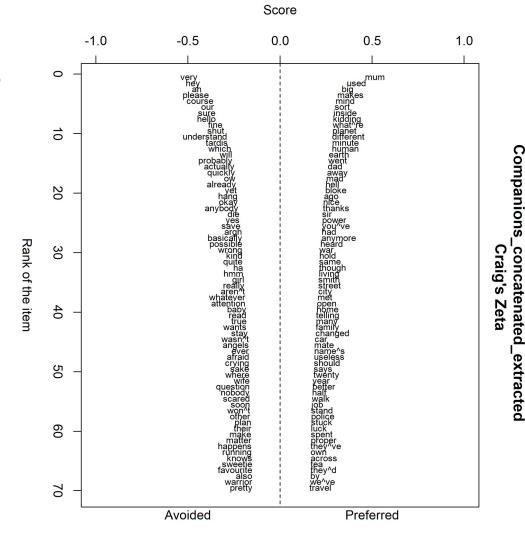
Davies's vs Moffat's Doctor

Davies vs Moffat

gone, sort, hold brilliant, thanks, year, might, earth, they've, inside, meet, twenty, human, lord, minute, smell, hmm, beyond, air, control, allons-y, fifty, sound, taken, those, head, mmm, you've, alone, someone, lost, anyone, sun, family, six, makes, race, she's, we've, power, over, last, humans, else, world, used, enough, sir, killing, him, mother, fighting, second, left, travelling, watch, name, bis, fight, smith, certain, mister, life, torchwood, john, device, yeah, says, came

girl, okay, probably, please, eh, ha, feel, moment, course, cool, has, shut, will, hang, dear, didn't, hey, forget, box, worry, plan, argh, sure, s, isn't, lives, sense, house, many, fine, its any, taking, ah, or, nobody, guys, aren't, fish, today, something, hello, again, burn, our, geronimo, dangerous, shouldn't, definitely, hour, who, possible, shush, scared, make, always, room, running, twelve, brave, pop, very, here's better, ow, minutes, kill, somewhere, eyes

Companions



_extracted

Davies vs Moffat

mum, used, big, makes, mind, sort, inside, kidding, what're, planet, different, minute, human, earth, went, dad, away, mad, hell, bloke, ago, nice, thanks, sir, power, you've had, anymore, heard, war, hold, same, though, living, smith, street, city, met, open, home, telling, many, family, changed, car, mate, name's, useless, should, says, twenty, year, better, half, walk, job, stand, police, stuck, luck, spent, propr, they've own, across,tea, they'd, by, we've, travel

very, hey, ah, please, course, our, sure, hello, fine, shut, understand, tardis, which, will, probably, actually, quickly, ow, already, yet, hang, okay, anybody, die, yes, save, argh, basically, possible, wrong, kind, quite, ha, hmm, girl, really, aren't, whatever, attention, baby, read, true, wants, stay, wasn't, angels, over, afraid, crying, sake, where, wife, question, nobody, scared, soon, won't, other, plan, their, make, matter, happens, running, knows, sweetie, favourite, also, warrior, pretty