

WHAT'S MY LINE

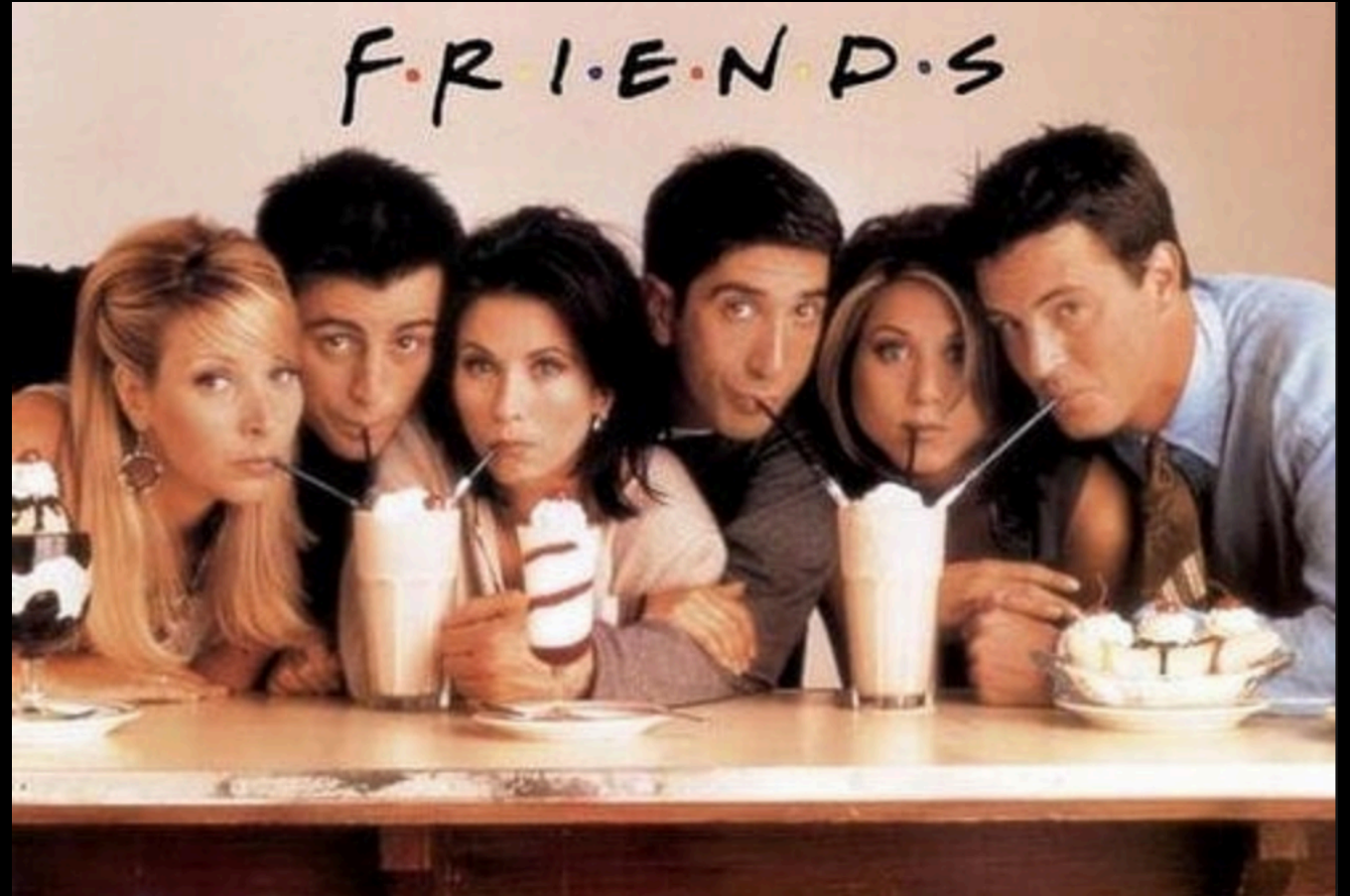
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F.R.I.E.N.D.S



Objective

- Use LDA to understand main topic for each characters
- Text generator: generate dialog for the main characters.



DATA

- Scraping dialog from 224 episode (<https://fangj.github.io/friends/>)

1. The One Where Monica Gets a New Roommate (The Pilot-The Uncut Version)

Written by: Marta Kauffman & David Crane

Transcribed by: [guineapig](#)

Additional transcribing by: [Eric Aasen](#)

(Note: The previously unseen parts of this episode are shown in blue text.)

[Scene: Central Perk, Chandler, Joey, Phoebe, and Monica are there.]

Monica: There's nothing to tell! He's just some guy I work with!

Joey: C'mon, you're going out with the guy! There's gotta be something wrong with him!

Chandler: All right Joey, be nice. So does he have a hump? A hump and a hairpiece?

Phoebe: Wait, does he eat chalk?

(They all stare, bemused.)

Phoebe: Just, 'cause, I don't want her to go through what I went through with Carl- oh!

Data mining

1.

Monica: There's nothing to tell! He's just some guy I work with!

Joey: C'mon, you're going out with the guy! There's gotta be something wrong with him!

Chandler: All right Joey, be nice. So does he have a hump? A hump and a hairpiece?

Phoebe: Wait, does he eat chalk?

(They all stare, bemused.)

Separate expressions with dialog.

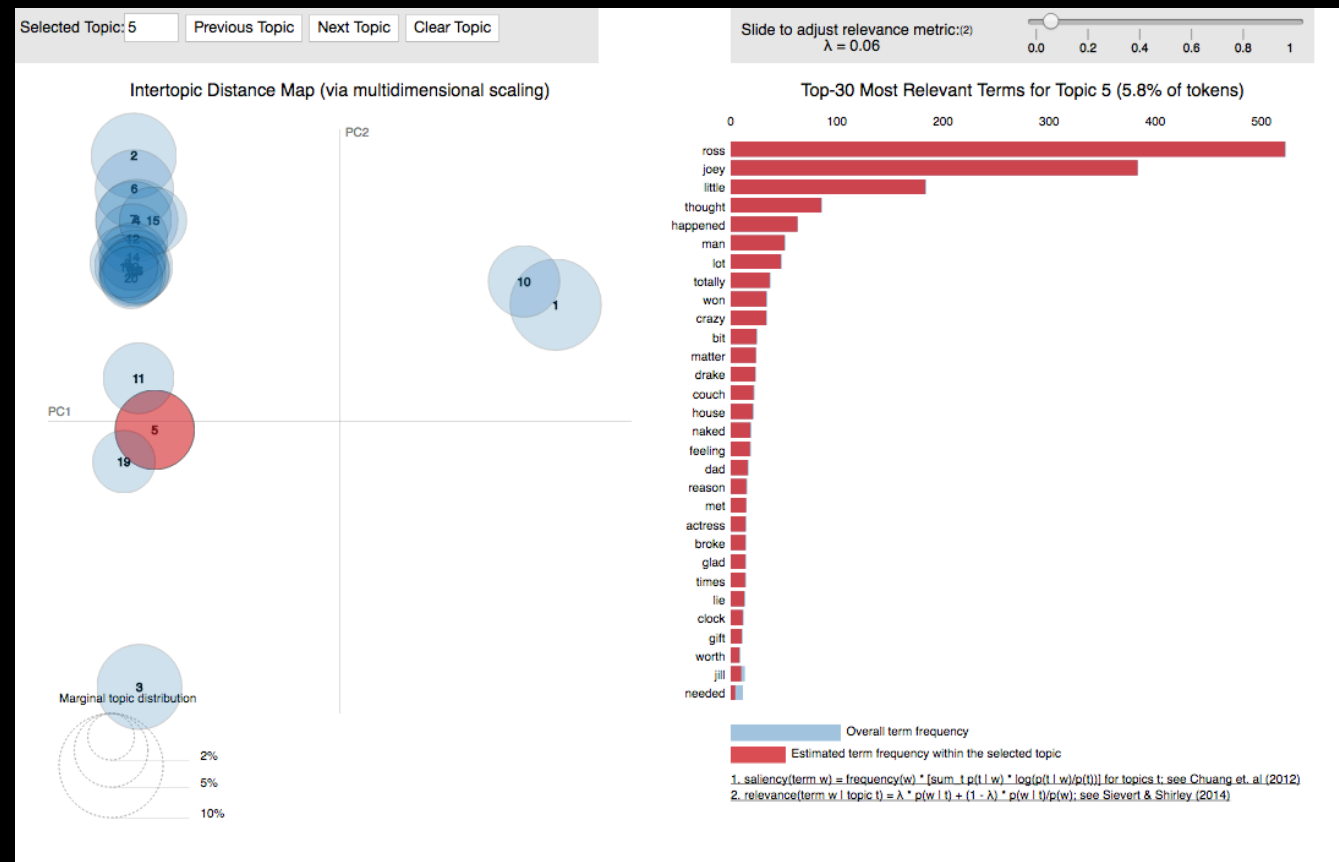


2.

	diag	expression	diag_filt
Phoebe:	Wait, does he eat chalk?, Just, 'cause, I don...	She starts to pluck at the air just in front o...	Wait, does he eat chalk?, Just, 'cause, I don...
Rachel:	Oh God Monica hi! Thank God! I just went to y...	to,the waitress that brought her coffee,to Mon...	Oh God Monica hi! Thank God! I just went to y...
Ross:	(mortified) Hi., I just feel like someone reac...	nortified,in a deep voice,choked voice,normal ...	Hi., I just feel like someone reached down my...
Monica:	There's nothing to tell! He's just some guy l...	explaining to the others,to Ross,pointing at R...	There's nothing to tell! He's just some guy l...
Chandler:	All right Joey, be nice. So does he have a hu...	They all stare at him.,He extends his hand hop...	All right Joey, be nice. So does he have a hu...
Joey:	C'mon, you're going out with the guy! There's...	comforting her,picking up a leftover part,look...	C'mon, you're going out with the guy! There's...

LDA

- WILL PRESENT SOME RESULTS ON LDA, SOMETHING SIMILAR TO THE PICTURE ON THE LEFT SIDE. HAVE SOME PRELIMINARY RESULTS, NEED TO TRIM THE MODEL A BIT.



Text generator

"I was, fourteen. My mom had just killed herself and my step-dad was back in prison, and I got here, and I didn't know anybody. And I ended up living with this, albino guy who was, like, cleaning windshields outside port authority and then, he killed himself, and then I found aromatherapy. So believe me, I know exactly how you feel"



Character to integer

{ ' ': 0, ',': 1, '-': 2, '.': 3, 'A': 4, 'I': 5, 'M': 6, 'S': 7, 'a': 8, 'b': 9, 'c': 10, 'd': 11, 'e': 12, 'f': 13, 'g': 14, 'h': 15, 'i': 16, 'j': 17, 'k': 18, 'l': 19, 'm': 20, 'n': 21, 'o': 22, 'p': 23, 'r': 24, 's': 25, 't': 26, 'u': 27, 'v': 28, 'w': 29, 'x': 30, 'y': 31, '"': 32 }

Text generator

“I was, fourteen. My mom had just killed herself and my step-dad was back in prison, and I got here, and I didn't know anybody.

Sequence length: 100



[19 0 29 8 25 1 ...]



Reshape

M samples

Time Steps

[[19	...	25]	[0	...	27]	[29	...	26]
		⋮	⋱	⋮			⋮	⋱	⋮						
		36	...	0			33	...	6			31	...	4	

Features (Sequence length)



Text generator

Model

LSTM

Dropout 0.2

Dense

Compile

Model

- 200 epoch
- Still under training in AWS. Will present final results for at least 1 character



CONCLUSION



THANK YOU

QUESTIONS?