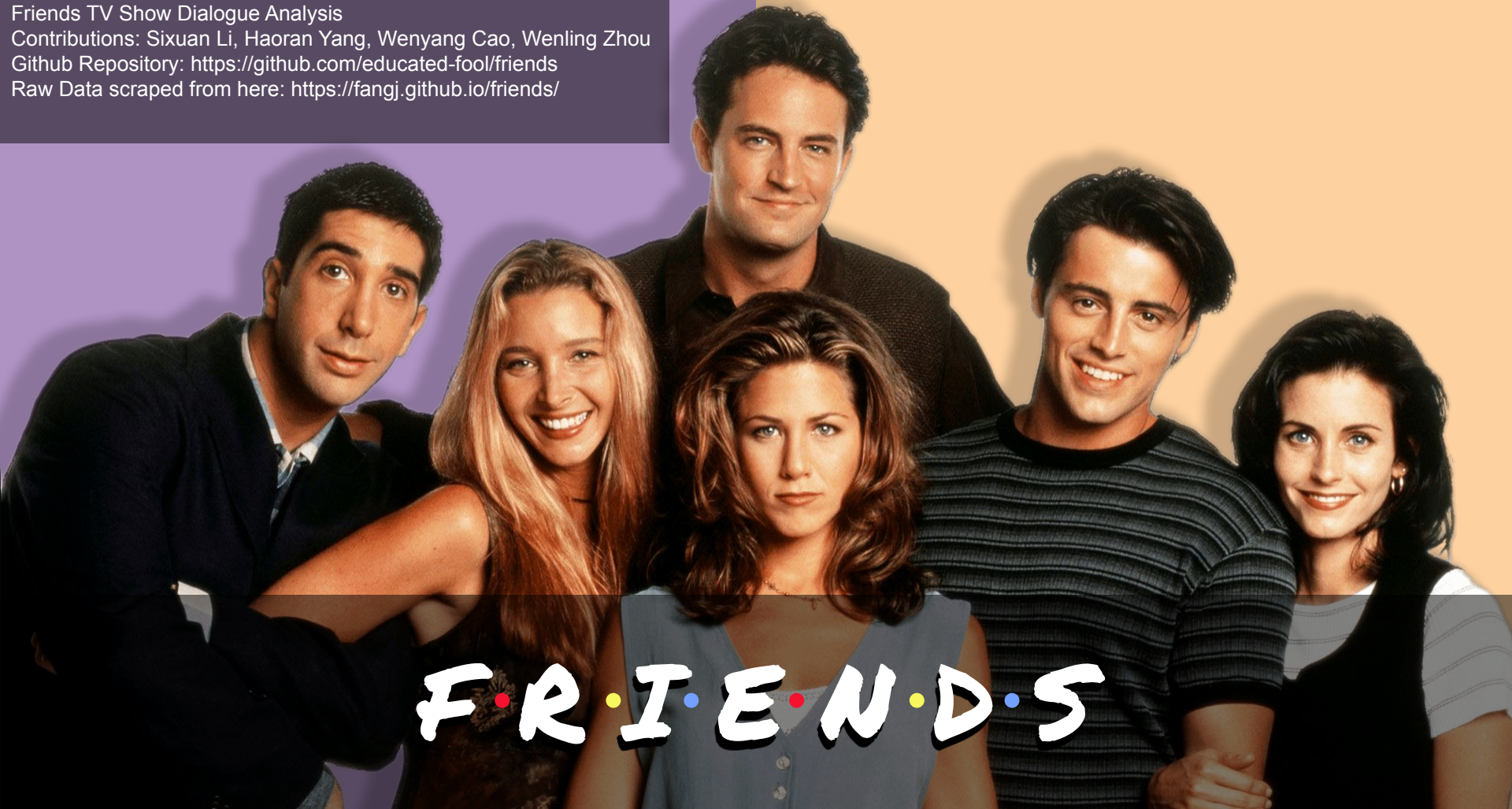Friends TV Show Dialogue Analysis
Contributions: Sixuan Li, Haoran Yang, Wenyang Cao, Wenling Zhou
Github Repository: https://github.com/educated-fool/friends
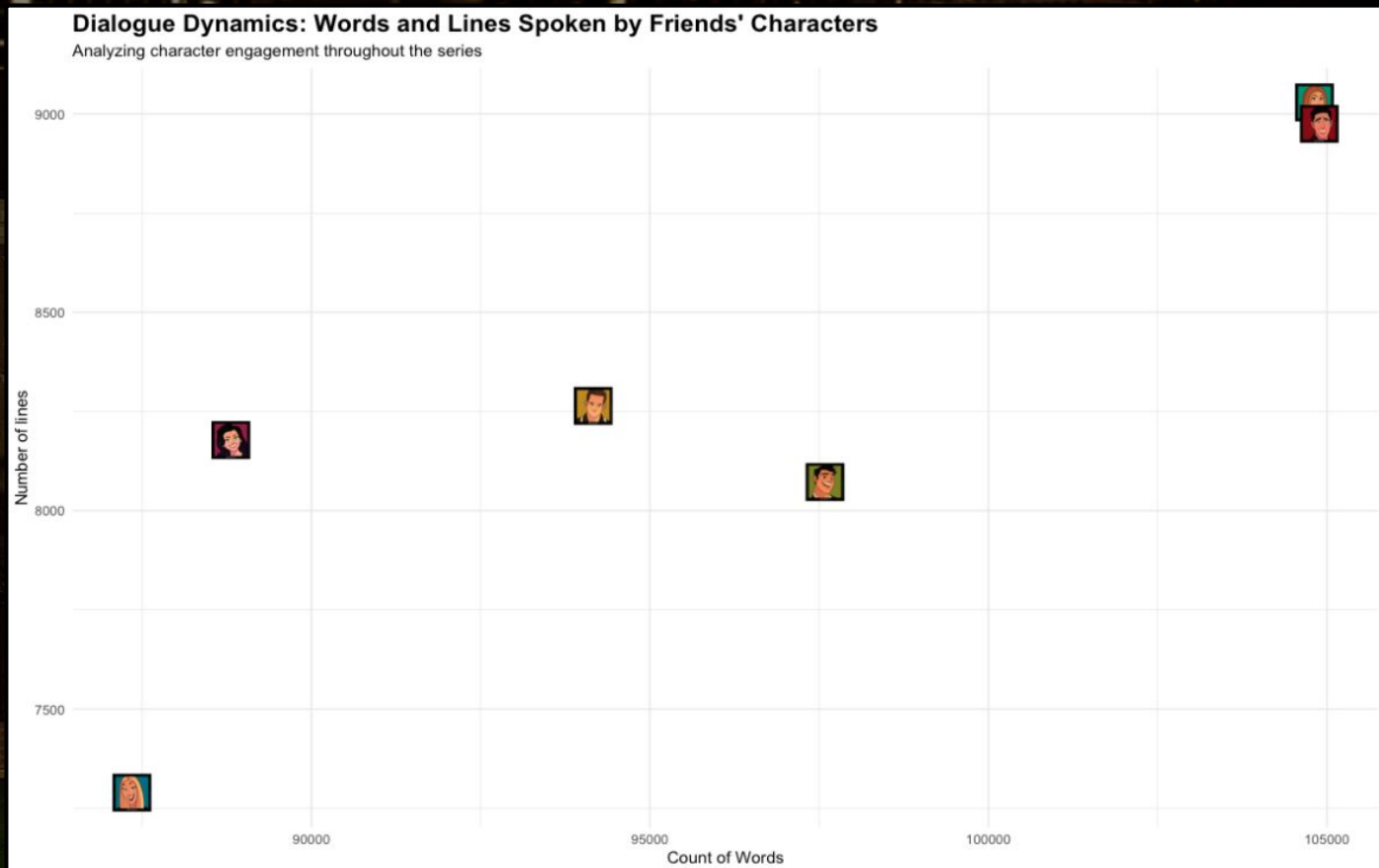Raw Data scraped from here: https://fangj.github.io/friends/

F·R·I·E·N·D·S

EDA: Dialogue Dynamics

Dialogue Dynamics: Words and Lines Spoken by Friends' Characters
Analyzing character engagement throughout the series

EDA: Voices of Influence

Seasonal Dialogue Distribution Among Friends' Characters

Comparative analysis of speaking volumes by season

Season	Chandler	Joey	Monica	Phoebe	Rachel	Ross
10	0.63	0.66	0.62	0.63	0.7	0.79
9	0.79	0.72	0.77	0.67	0.78	0.77
8	0.61	0.83	0.74	0.7	0.99	0.9
7	0.78	0.86	0.83	0.74	1	0.76
6	0.94	0.83	0.82	0.72	0.9	0.83
5	0.86	0.85	0.82	0.74	0.83	0.79
4	0.83	0.74	0.7	0.65	0.83	0.73
3	0.75	0.71	0.77	0.72	0.84	0.98
2	0.6	0.57	0.59		0.58	0.76
1	0.74	0.58	0.79	0.58	0.77	0.87

EDA: Mapping Character Interactions
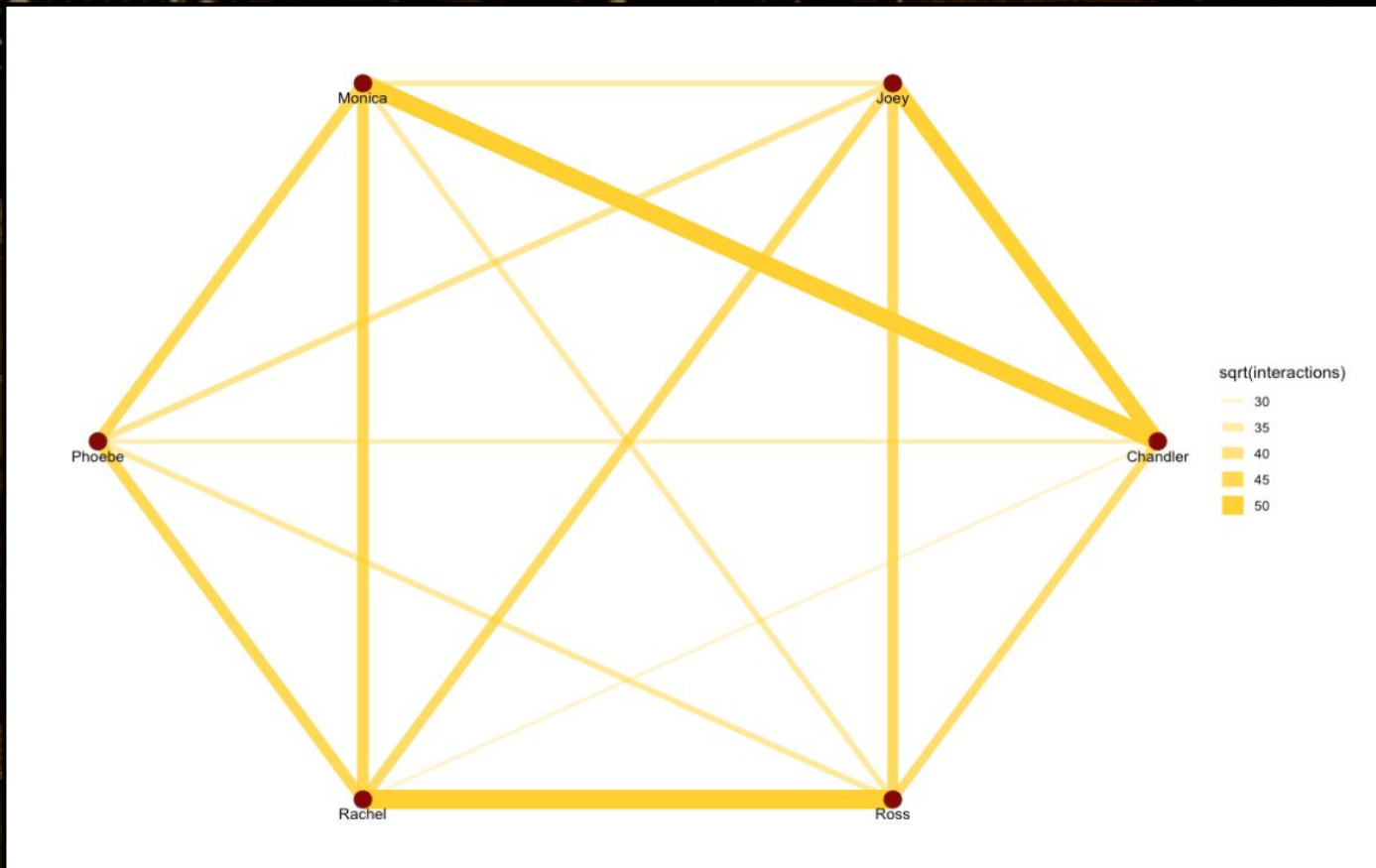
EDA: Wordcloud

Ross

Rachel

Joey

Monica

Chandler

Phoebe

EDA: Episode-by-Episode Sentiment Analysis

Total Sentiment Score by Episode with Afinn Lexicon
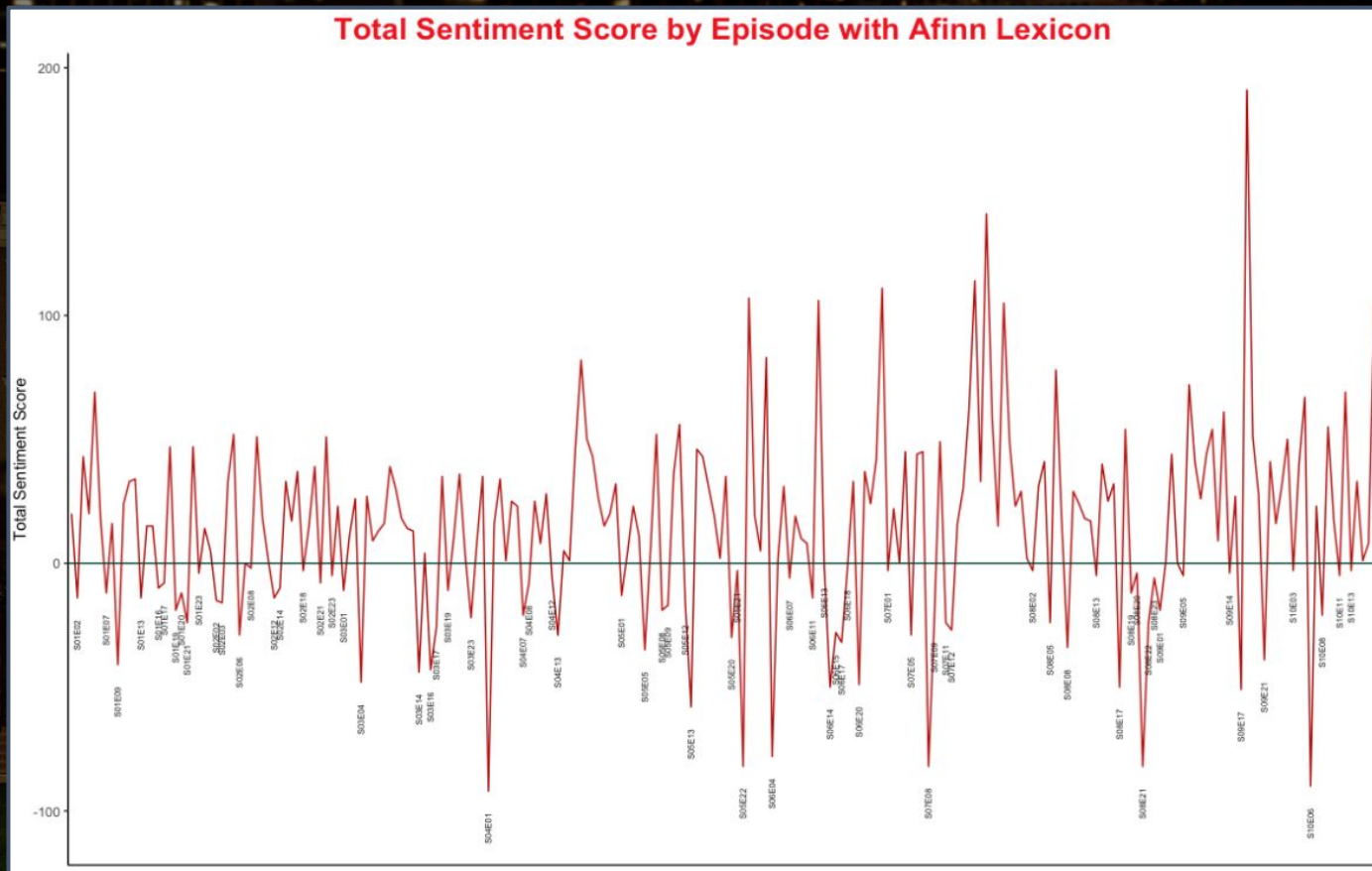
Research Question One:
Tracing Love and Bonds

WE WERE ON A BREAK!!!

RQ1: Analyzing 'Love' in Dialogues

Expressions of Affection: Analyzing 'Love' in Character Dialogues
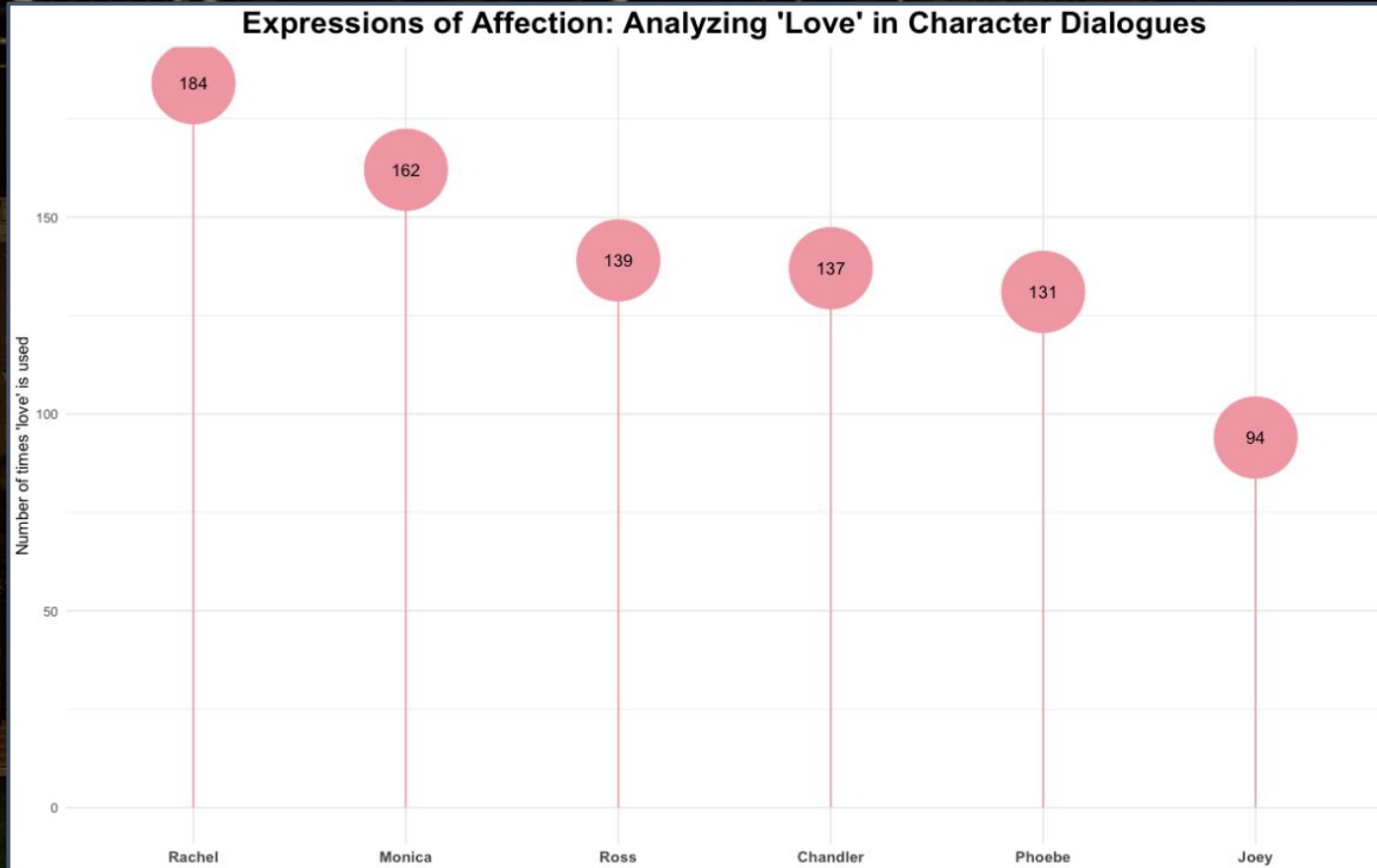
RQI: Trends in Relationship Topics

Tracking the Pulse of Relationships: Seasonal Trends in Love, Break-ups, and Marriage
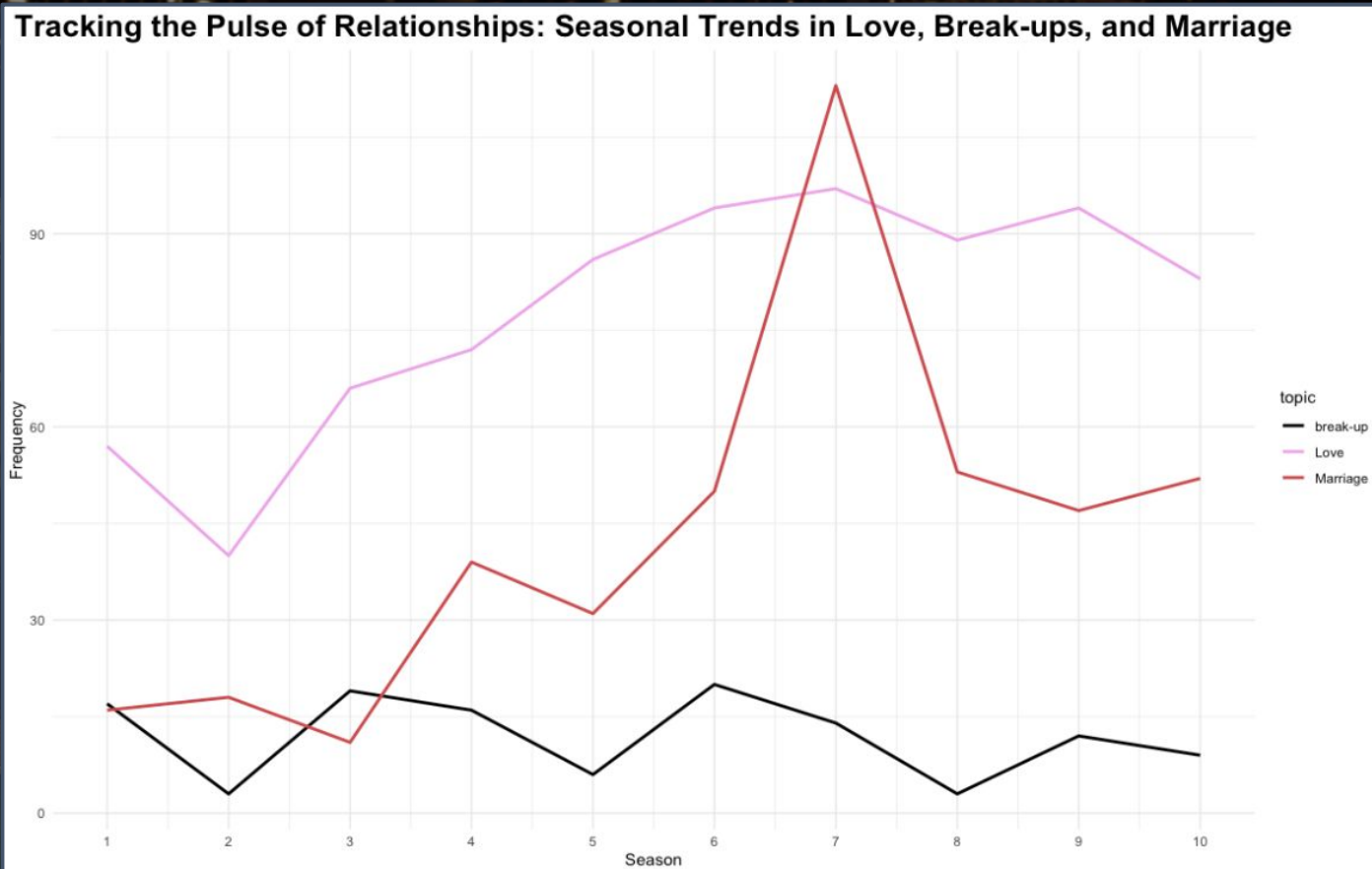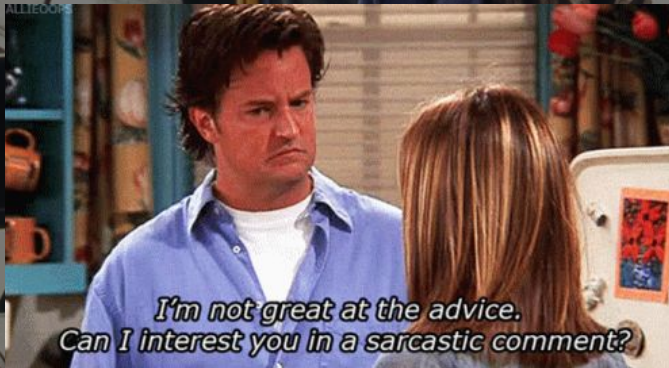
RQ2: Character Sentiments Using NRC Lexicon

Sentiments of Each Character Using NRC Lexicon
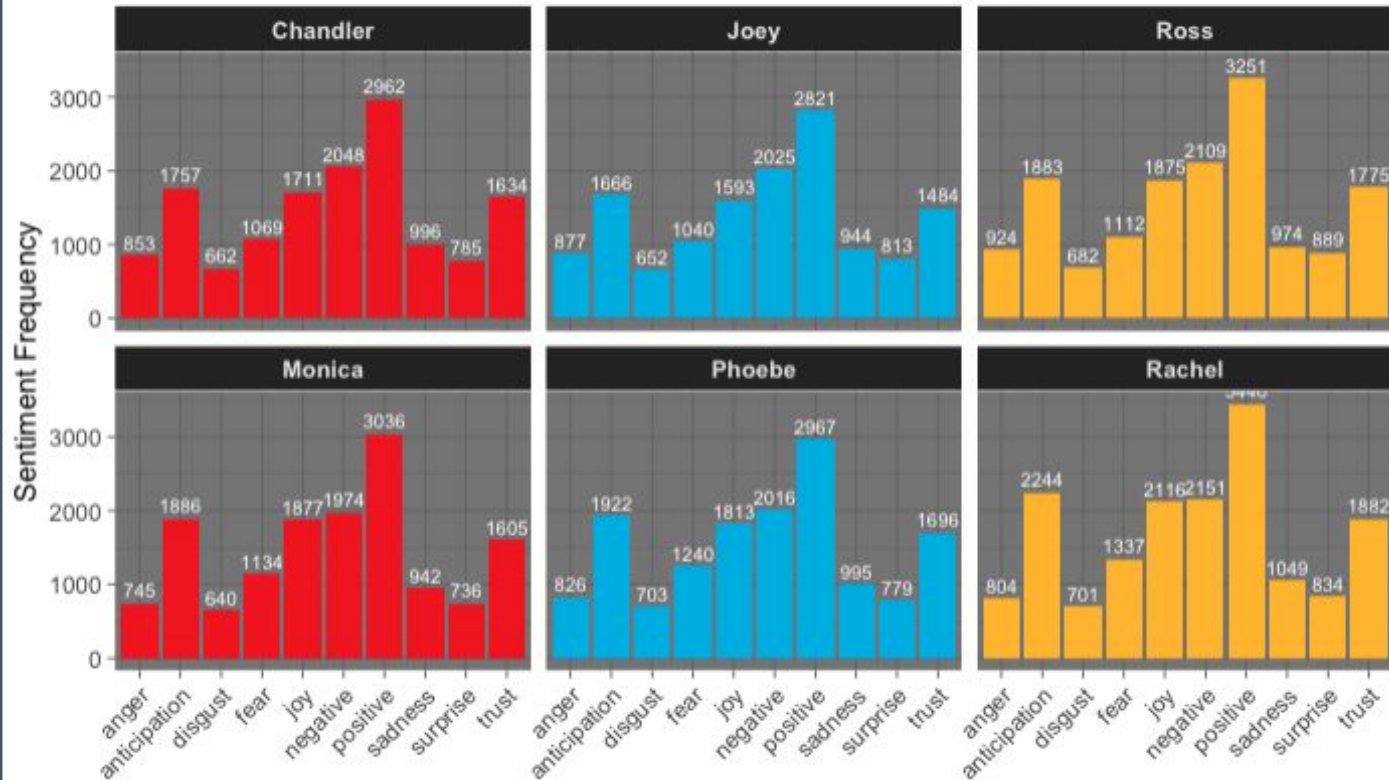
RQ2: Negative-Positive Ratio Analysis

Negative-Positive Ratio in All Seasons Using Bing Lexicon

	Chandler	
	positive	negative
10	130	173
9	200	275
8	124	182
7	183	221
6	201	311
5	165	200
4	176	229
3	141	218
2	82	146
1	141	225

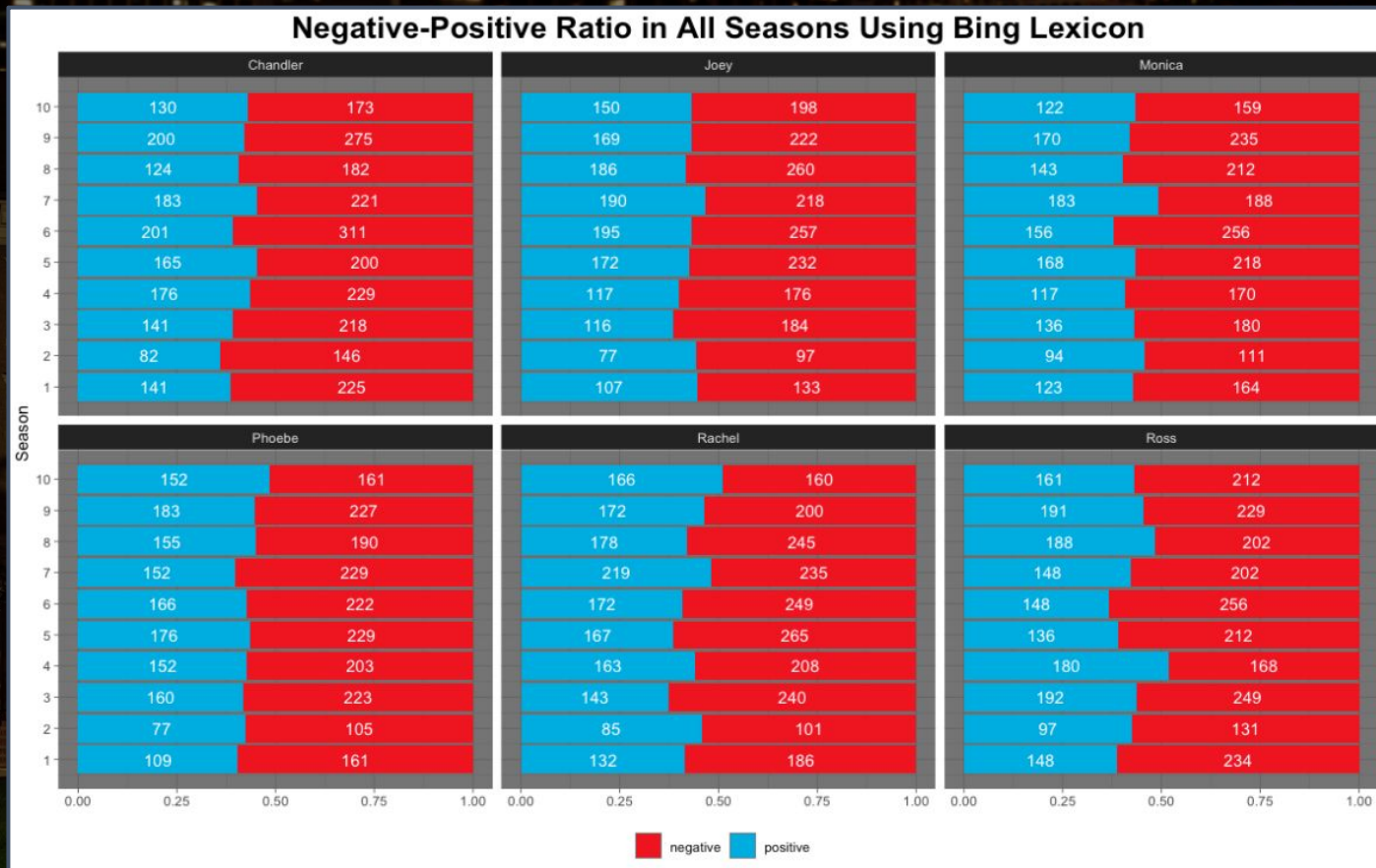|	Joey	
	positive	negative
10	150	198
9	169	222
8	186	260
7	190	218
6	195	257
5	172	232
4	117	176
3	116	184
2	77	97
1	107	133

	Monica	
	positive	negative
10	122	159
9	170	235
8	143	212
7	183	188
6	156	256
5	168	218
4	117	170
3	136	180
2	94	111
1	123	164

	Phoebe	
	positive	negative
10	152	161
9	183	227
8	155	190
7	152	229
6	166	222
5	176	229
4	152	203
3	160	223
2	77	105
1	109	161

	Rachel	
	positive	negative
10	166	160
9	172	200
8	178	245
7	219	235
6	172	249
5	167	265
4	163	208
3	143	240
2	85	101
1	132	186

	Ross	
	positive	negative
10	161	212
9	191	229
8	188	202
7	148	202
6	148	256
5	136	212
4	180	168
3	192	249
2	97	131
1	148	234

Season

negative   positive

Sentiment Trajectory Across Seasons for Friends Characters
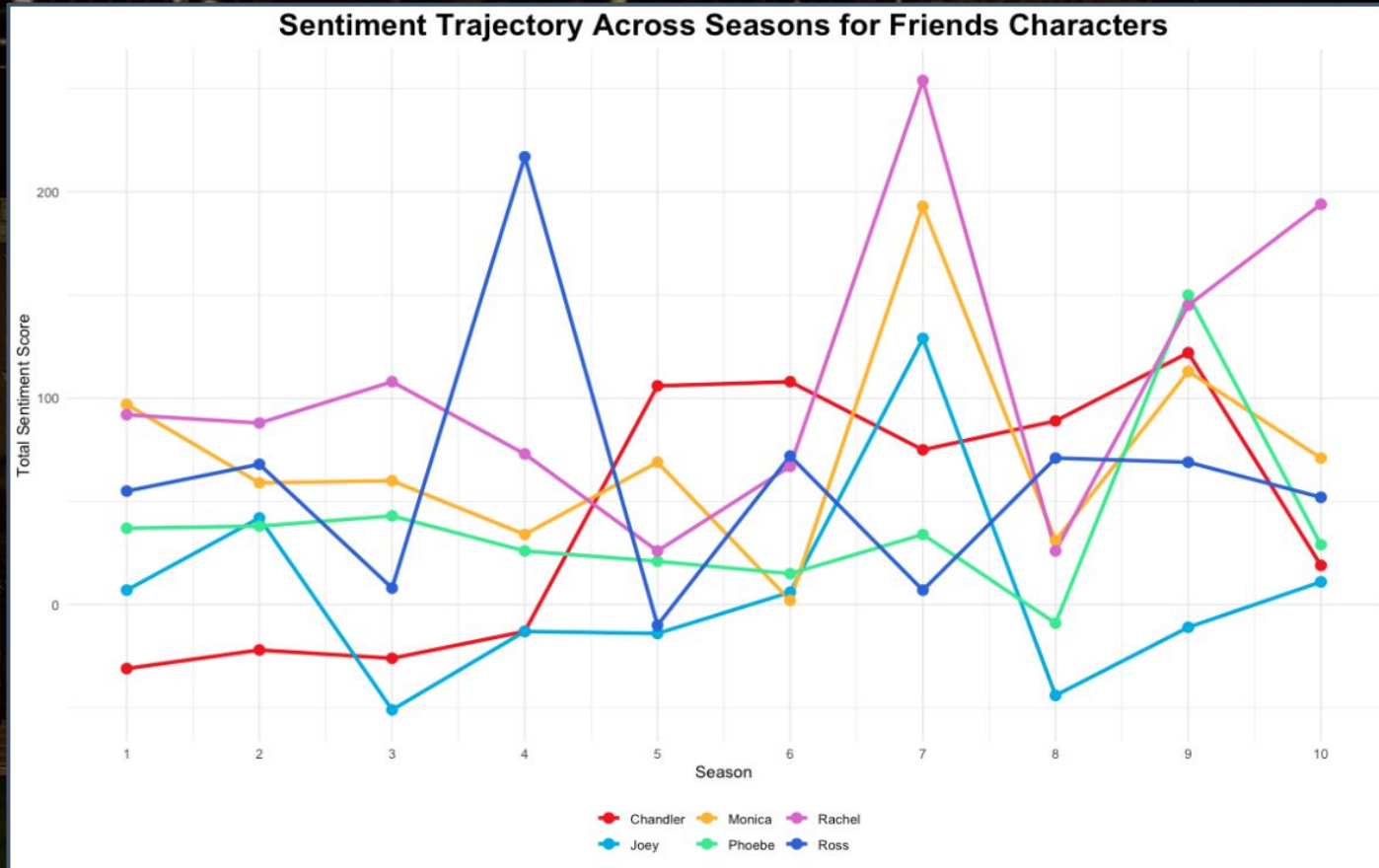
RQ2: Character-Specific Keywords Analysis

Distinguishing Lexicons: Analyzing Character-Specific Keywords Across Narratives
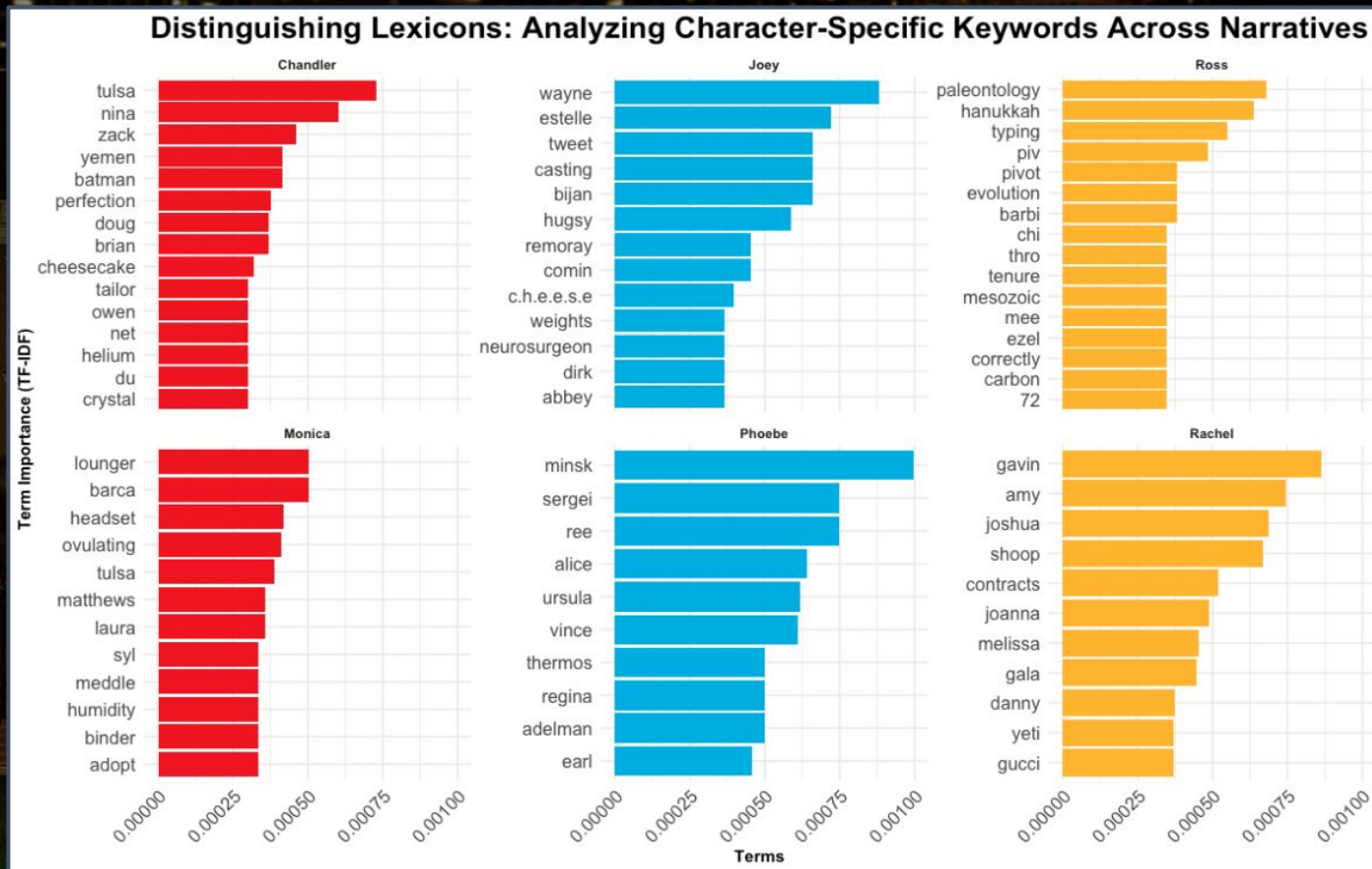
Conclusion & Recommendations

Key Insights:

- Character Depth
- Narrative Pulse
- Audience Connection

Recommendations:

- Content Creation
  - Data-Driven Development
  - Enhanced Character Realism
- Marketing Strategies
  - Targeted Campaigns
  - Audience Engagement

THANK YOU

Credits

Slide **Chef**