

Use Case: Sentiment Analysis				
Rating Criteria	Requirements	Python	R	Weight
Data Visualization/ Presentation of Results		6	9	25.00%
	Variety of Presentation Options	a variety of charts existed, but manipulation was difficult couldn't handle tokenized lists for charts	histograms, facet charts	
	Ease of Interpretation	word clouds were more colorful, but not as functional	basic plots were easy to interpret and export for file sharing	
Ease of Use		7	8	30.00%
	Learning Time	12 hours	4 hours	
	Readability- natural connotation & understanding	easy to understand if you know javascript and web development languages	adjustment to understand syntax	
	Writeability- lines of code necessary			
	Simplicity	cleaning the data would occur within the charts		
	Consistency	syntax changed based on different packages occasionally	syntax was consistent throughout	
	Maintenance- ease of updating code for data changes	chunks of code on jupyter notebook easy to sort through	set working session to the file location	
Processing Limits		8	10	5.00%
	Baselines: Excel: 1,048,576 rows X 16,384 columns	seemed to have a processing issue when tokenizing the code. It tokenized the first rows, but when viewing the end of the dataset, these data were not processed.	no issues with processing limits	
Processing Speed		7	9	5.00%
	Averages of team measurements	1:30 minutes Jupyter notebook used a lot of RAM because of the internet connection, which slowed down the process	0:15 seconds	
Compatibility		8	10	15.00%
	Operating Systems (Windows/ Mac /Linux)	no issues	no issues	
	Form of Data Files (Excel, CSV, etc)	csv used, no issues	csv used, no issues	
	Export Options/ Sharing of Results	would have to write code to export graphs	no code needed to export plots	
Resources		7	9	20.00%
	Online Communities	Lynda, Stack overflow	Kaggle, blogs, online communities and simple solutions	
	Document Management	code links to specific file location, so it won't run unless you change it in the code edited code in Jupyter notebook, so internet connection was needed	need to set the working directory every session	
	Packages & Libraries	ggplot had running errors, had to manipulate matplotlib and seaborn	ggplot2	
Total		6.95	8.90	