

Use Case: Geolocation				
Rating Criteria	Requirements	Python	R	Weight
<b>Data Visualization/ Presentation of Results</b>		<b>6</b>	<b>9</b>	<b>25.00%</b>
	Variety of Presentation Options	folium, gmaps, geopandas	ggmap, mapview	
	Ease of Interpretation	icon size	icon size, color gradient, legend	
<b>Ease of Use</b>		<b>6</b>	<b>9</b>	<b>30.00%</b>
	Learning Time	2 weeks	1 week	
	Readability- natural connotation & understanding	code extremely easy to read	less straight forward but syntax is logical	
	Writeability- lines of code necessary	33	23	
	Simplicity	need to write for loop for getting geocodes of a table	use of single function to get geocodes of a table	
	Consistency	once code was established, can work with any table that has information about a location	once code was established, can work with any table that has information about a location	
	Maintenance- ease of updating code for data changes	stack overflow, personal blogs	stack overflow, personal blogs	
<b>Processing Limits</b>		<b>10</b>	<b>10</b>	<b>5.00%</b>
	Baselines: Excel: 1,048,576 rows X 16,384 columns	2500 queries per day limit for free google API	2500 queries per day limit for free google API	
<b>Processing Speed</b>		<b>9</b>	<b>8</b>	<b>5.00%</b>
	Averages of team measurements	0:58 minutes	1:06 minutes	
<b>Compatibility</b>		<b>10</b>	<b>10</b>	<b>15.00%</b>
	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	can export code and results to various types of files	can export code and results to various types of files	
<b>Resources</b>		<b>9</b>	<b>10</b>	<b>20.00%</b>
	Online Communities	stackoverflow, personal blogs - less clear examples online	stackoverflow, personal blogs	
	Document Management	used locally stored documents	used locally stored documents	
	Packages & Libraries	many packages that can be used together to create desired result	many packages that can be used together to create desired result	
<b>Total</b>		<b>7.55</b>	<b>9.35</b>	