

Data Visualization with Python

Cheat Sheet: Maps, Waffles, WordCloud and Seaborn

Function	Description	Syntax	
Folium			
Мар	Create a map object with specified center coordinates and zoom level.	folium.Map(location=[lat, lon], zoom	
Marker	Add a marker to the map with custom icon, popup, and tiles Tiles as Stamen Toner	<pre>folium.Marker(location=[lat , lon], popup='Marker Popup'. tiles='Stamen Toner').add_to(map)</pre>	
	Tiles as Stamen Terrain	<pre>folium.Marker(location=[lat , lon], popup='Marker Popup'. tiles='Stamen Terrain').add_to(map)</pre>	
Circle	Add a circle to the map with specified radius, color, and fill opacity.	<pre>folium.features.CircleMarker(location radius=n. color='red'. fill_opacity=n).add_to(map)</pre>	
Chorpleth	Create a choropleth map based on a GeoJSON file and a specified data column.	folium.Choropleth(geo data='path/to/data=df.columns=['region'. 'value ckev on='feature.properties.id'. fill fill opacitv=0.7. line opacitv=0.2, legend_name='Legend').add_to(map)	
PyWaffle			
Waffle	Create a waffle chart based on values and categories.	<pre>plt.figure(FigureClass = Waffle,rows values) waffle chart = waffle.Waffle(values= rows=n, columns=n)</pre>	
Legend	Add a legend to the waffle chart.	waffle_chart.legend(loc='upper left'	
Title	Add a title to the waffle chart.	waffle_chart.set_title('Waffle Chart	
Labels	Add labels to the waffle chart.	<pre>waffle_chart.set_labels(['Label 1',</pre>	

Function	Description	Syntax	
WordCloud	Create a word cloud object based on text data.	wordcloud = WordCloud().generate(text	
Generate	Generate the word cloud based on the text data.	wordcloud.generate(text_data)	
Display	Display the word cloud using matplotlib or other plotting libraries.	plt.imshow(wordcloud, interpolation='	
Options	Set various options for the word cloud, such as font, colors, mask, and stopwords.	<pre>wordcloud = WordCloud(font_path='path background color='white'. colormap='Blues'. mask=mask image. stopwords=stopwords).generate(text_da</pre>	
Seaborn			
barplot	Create a bar plot to visualize the relationship between a categorical variable and a numeric variable.	<pre>sns.barplot(x='x_variable', y='y_vari</pre>	
countplot	Create a count plot to display the frequency of each category in a categorical variable.	<pre>sns.countplot(x='category', data=data</pre>	
regplot	Create a scatter plot with a linear regression line to visualize the relationship between two numeric variables.	<pre>sns.regplot(x='x variable'. y='y_variable', data=dataframe)</pre>	

Author(s)

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Changelog

Date	Version	Changed by	Change Description
2023-06-18	0.1	Dr. Pooja	Initial version created