



Data Visualization with Python

Cheat Sheet : Plotly and Dash

Function	Description Syntax	Example
Plotly Express		
scatter	Create a scatter plot <code>px.scatter(dataframe, x=x_column, y=y_column)</code>	<code>px.scatter(df, x=age_array, y=income_array)</code>
line	Create a line plot <code>px.line(x=x_column, y=y_column,'title')</code>	<code>px.line(x=months_array, y=no_bicycle_sold_array)</code>
bar	Create a bar plot <code>px.bar(x=x_column, y=y_column,title='title')</code>	<code>px.bar(x=grade_array, y=score_array, title='Pass Percentage')</code>
sunburst	Create a sunburst plot <code>px.sunburst(dataframe, path=[col1,col2..], values='column',title='title')</code>	<code>px.sunburst(data, path=['Month', 'DestStateName'], values='Flights',title='Flight Distribution Hierarchy')</code>
histogram	Create a histogram <code>px.histogram(x=x,title="title")</code>	<code>px.histogram(x=heights_array,title="Distribution of Heights")</code>
bubble	Create a bubble chart <code>px.scatter(dataframe, x=x,y=y,size=size,title="title")</code>	<code>px.scatter(bub_data, x="City", y="Numberofcrimes", size="Numberofcrimes",hover_name="City", title='Crime Statistics')</code>
pie	Create a pie chart <code>px.pie(values=x,names=y,title="title")</code>	<code>px.pie(values=exp_percent, names=house_holdcategories, title='Household Expenditure')</code>
Plotly Graph Objects		
Scatter	Create a scatter <code>go.Scatter(x=x, y=y, mode='markers')</code>	<code>go.Scatter(x=age_array, y=income_array, mode='markers')</code>
	Create a line plot <code>go.Scatter(x=x, y=y, mode='lines')</code>	<code>go.Bar(x=months_array, y=no_bicycle_sold_array,mode='lines')</code>
add_trace	Add additional traces to an existing figure <code>fig.add_trace(trace_object)</code>	<code>fig.add_trace(go.Scatter(x=months_array, y=no_bicycle_sold_array))</code>
update_layout	Update the layout of a figure, such as title, axis labels, and annotations. <code>fig.update_layout(layout_object)</code>	<code>fig.update_layout(title='Bicycle Sales', xaxis_title='Months', yaxis_title='Number of Bicycles Sold')</code>
Dash		
dash_core_components.Input	Create an input component <code>dcc.Input(value='', type='text')</code>	<code>dcc.Input(value='Hello', type='text')</code>
dash_core_components.Graph	Create a graph component <code>dcc.Graph(figure=fig)</code>	<code>dcc.Graph(figure=fig)</code>
dash_html_components.Div	Create a div element <code>html.Div(children=component_list)</code>	<code>html.Div(children=[html.H1('Hello Dash'), html.P('Welcome to Dash')])</code>
dash_core_components.Dropdown	Create a dropdown component <code>dcc Dropdown(options=options_list, value=default_value)</code>	<code>dcc.Dropdown(options=[{'label': 'Option 1', 'value': '1'}, {'label': 'Option 2', 'value': '2'}], value='1')</code>

Author(s)

Dr. Pooja

Changelog

Date Version Changed by Change Description

2023-06-19 0.1 Dr. Pooja Initial version created