

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="title")</code>	<code>px.line(months_array, y=avg_bicycle_sold_array)</code>
bar	Create a bar plot	<code>px.bar(x=x_column, y=y_column, title="title")</code>	<code>px.bar(months_array, y=income_array, title="Pete's Income")</code>
countbar	Create a count plot	<code>px.countbar(dataframe, path=[col1,col2,...], values='column', title="title")</code>	<code>px.countbar(df, path=["Month", "Weather"], values="Flights", title="Flight Distribution Weather")</code>
histogram	Create a histogram	<code>px.histogram(x=x_column, title="title")</code>	<code>px.histogram(height_array, title="Distribution of Heights")</code>
bubble	Create a bubble chart	<code>px.scatter(dataframe, x=x_column, y=y_column, size="size", title="title")</code>	<code>px.scatter(df, data_x="City", data_y="MedianCrime", size="MedianCrime", hover_name="City", title="Crime Statistics")</code>
pie	Create a pie chart	<code>px.pie(values=values, title="title")</code>	<code>px.pie(values=[{"category": "Household Income", "value": 100}], 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.Scatter(x=months_array, y=avg_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=avg_bicycle_sold_array, mode="lines"))</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="Month", 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=[text1])</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>

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