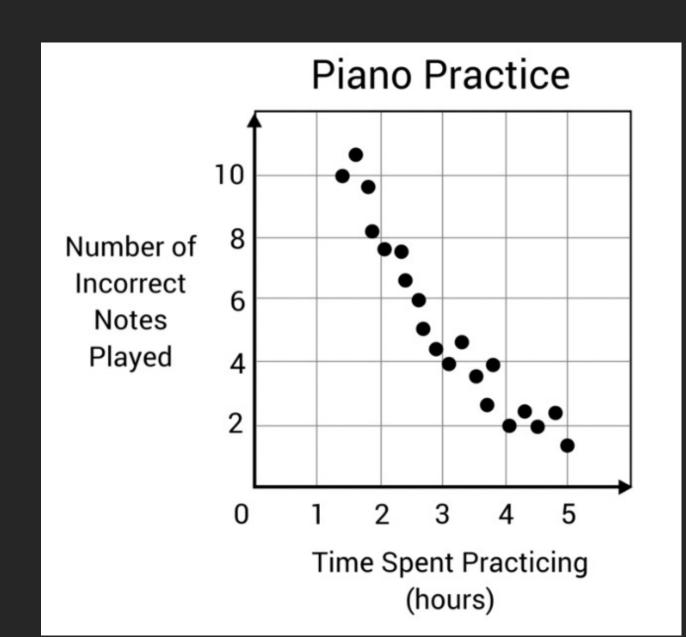
Styling Plotly Charts

How to Add Extra Options to Customize Plotly Charts

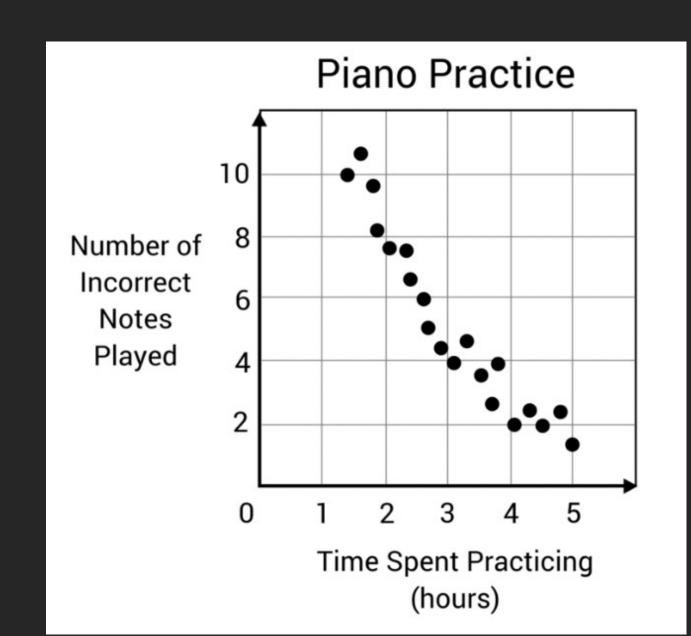
Think Share Activity

What are the parts of a chart?



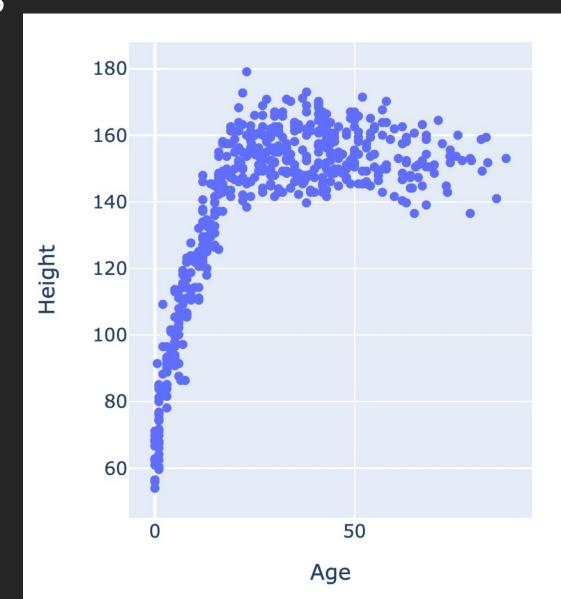
Parts of a Chart

- Title
- Chart body
 - Axes
 - Coordinate space
 - Points, lines
- Axis labels
- Color legend



Default Plotly Chart Styling

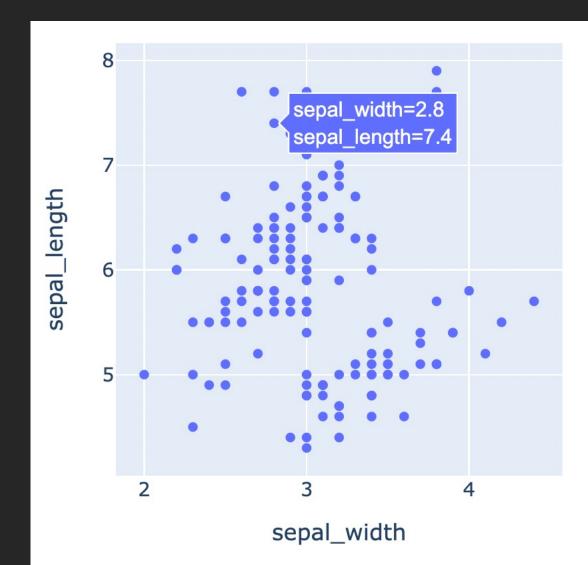
- For this dataset column names were:
 - Age
 - Height
 - Gender
- Axis labels depend on column names
- Looks pretty good, except no title



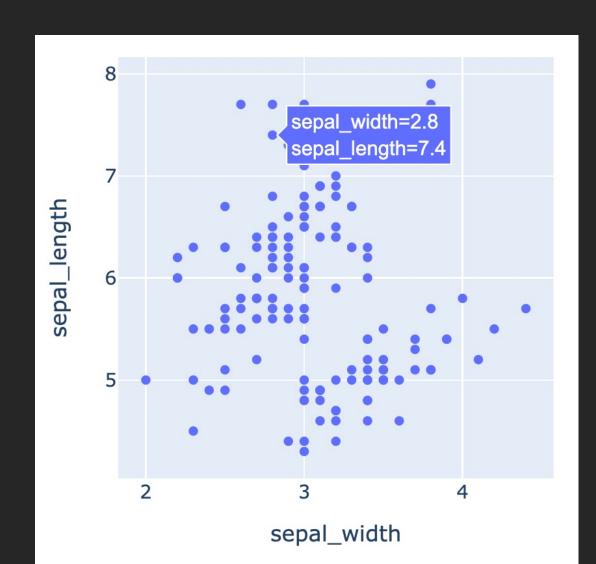
Default Plotly Chart Styling

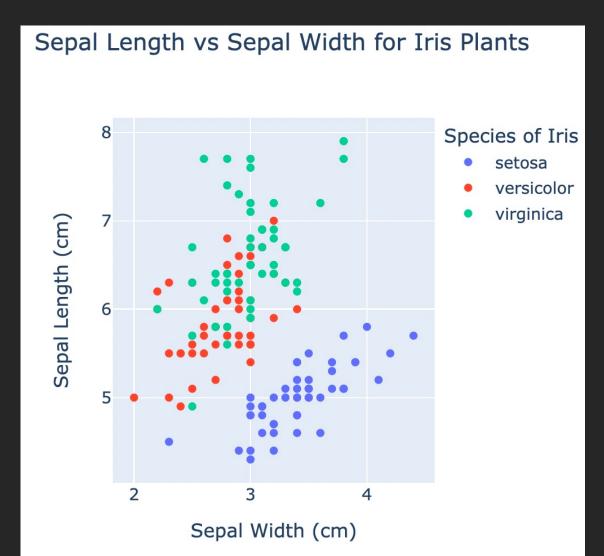
- For this dataset column names were:
 - sepal_length
 - sepal_width
- Doesn't look so nice...

• But we can customize!



Plotly Chart Options: Before & After





Plotly Chart Options

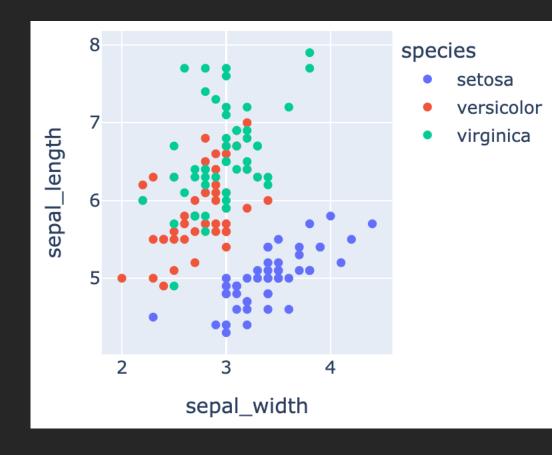
Many options to change!

- Set title
- Set color of each point based on an additional variable
- Change chart labels

How-to: Set Color of Points w/ Variable

Add an extra option to px.scatter

```
color = "species"
                    species 22
 set color to
px.scatter(df,x=x,y=y,color=color)
  with px do scatter
                         df ▼
                 using
                  and
                         X=X
                  and
                         y=y
                         color=color
                  and
```



How-to: Change Label Text Dictionaries in Blockly

• This is a dictionary, a kind of key-value storage.

Blockly doesn't always generate code that is easy to read.

```
labels = dict([('sepal_length','Sepal Length (cm)'), ('sepal_width','Sepal Width (cm)'), ('species','Species of Iris')])
```

How-to: Change Label Text (cont.)

Add an extra option to px.scatter

px.scatter(df,x=x,y=y,color=color,labels=labels)

with px do scatter

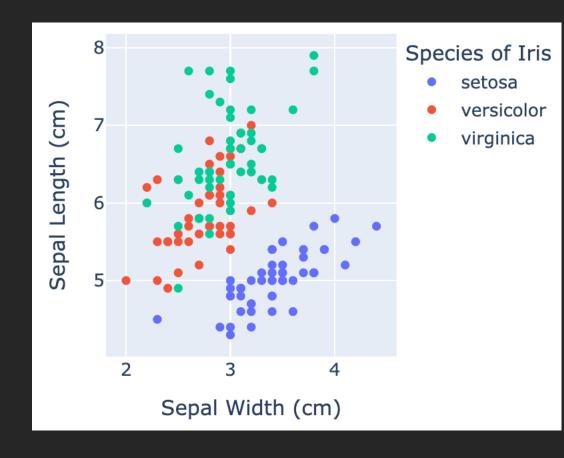
+ using df

and x=x

and y=y

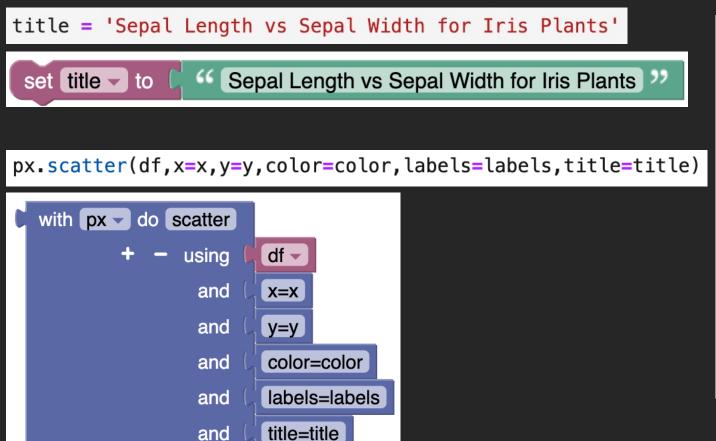
and color=color

and labels=labels

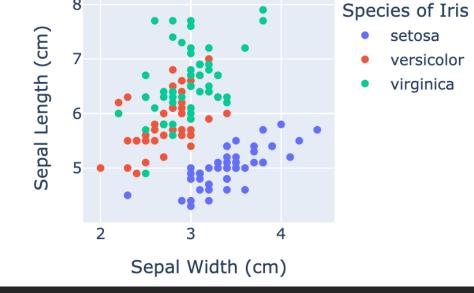


How-to: Add Chart Title

Add an extra option to px.scatter



Sepal Length vs Sepal Width for Iris Plants



Summary

- Parts of a chart
- Some ways to customize Plotly charts
- Plotly chart options with Blockly