Plotting and Presenting Your Data



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Summary



Choosing the tools

Generating plots

Demo



The Library





Simple API



Simple API

Targets browsers



Simple API

Targets browsers

Can work with Pandas
DataFrames



Bokeh Is Fun!



Bokeh Basics

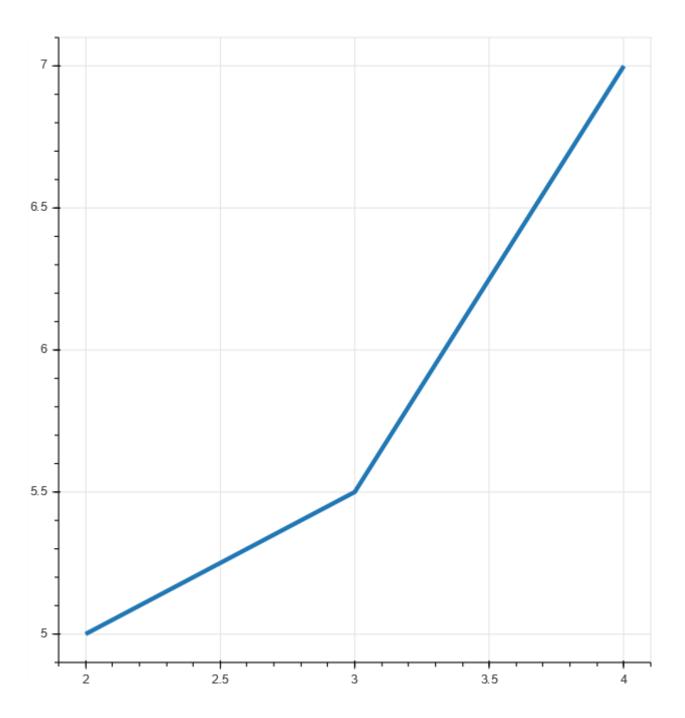


```
p = figure()
p.line(x=[2,3,4], y=[5,5.5,7], line_width=4)
```

Basic Plot and Glyph

Glyphs are placed by calling their respective methods







```
p = figure()

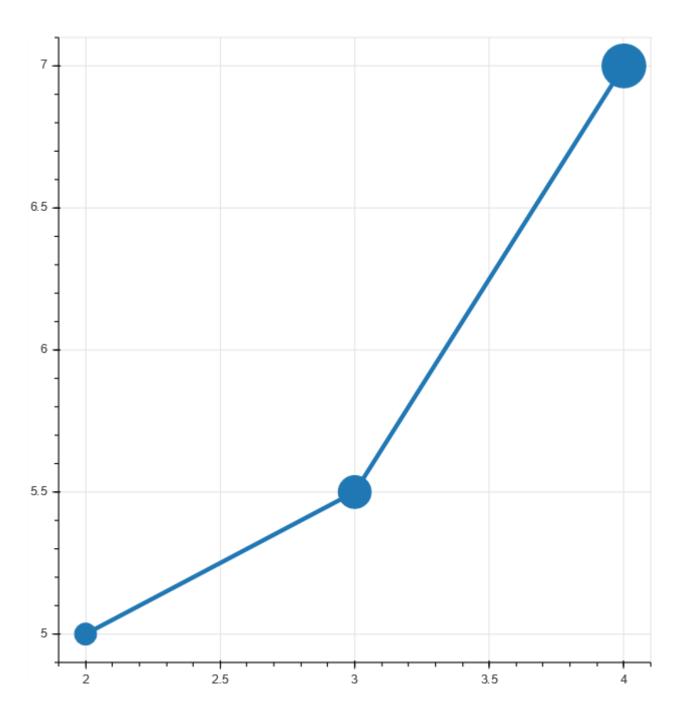
p.line(x=[2,3,4], y=[5,5.5,7], line_width=4)

p.circle(x=[2,3,4], y=[5,5.5,7], size=[20,30,40])
```

Multiple Glyphs

Just call more methods







id	grade	years	salary
1	3	5	75000
2	2	1	50000
3	4	10	150000
4	3	1	100000

source = ColumnDataSource(df)

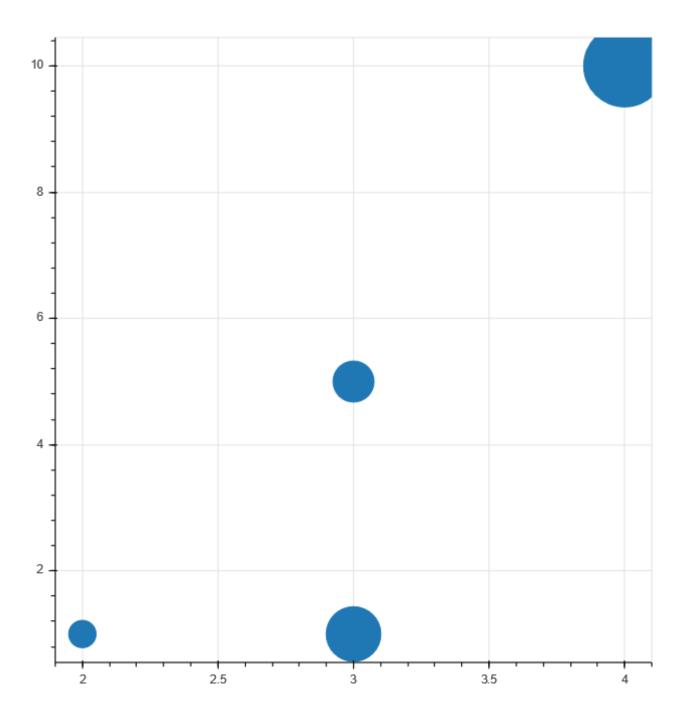
DataFrame as Data Source

Quick conversion



DataFrame as Data Source Quick conversion







Hover Tool

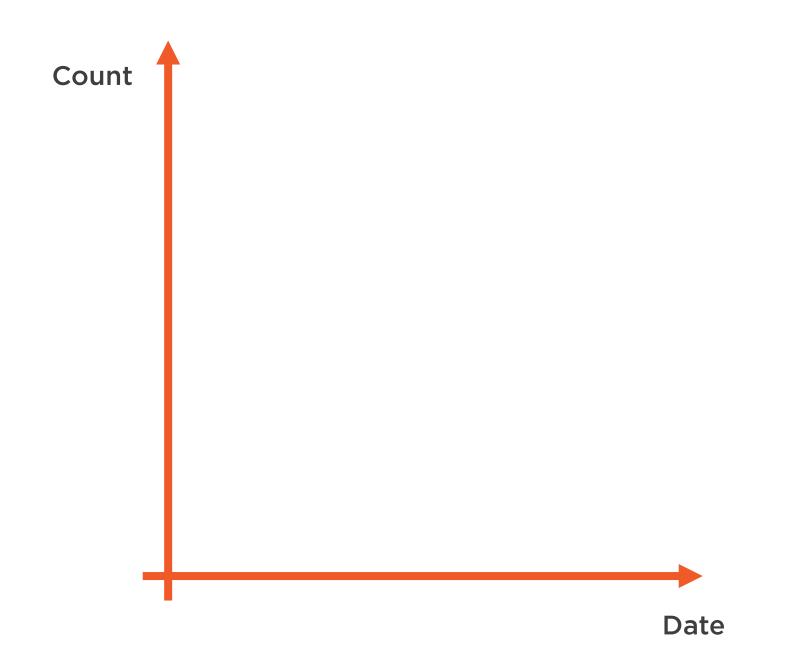
Interactive display of additional information



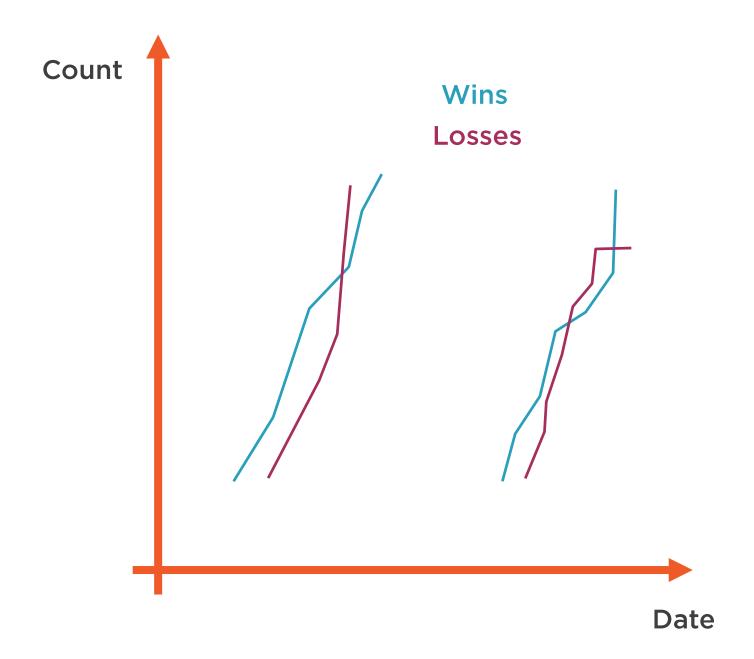
Hover Tool

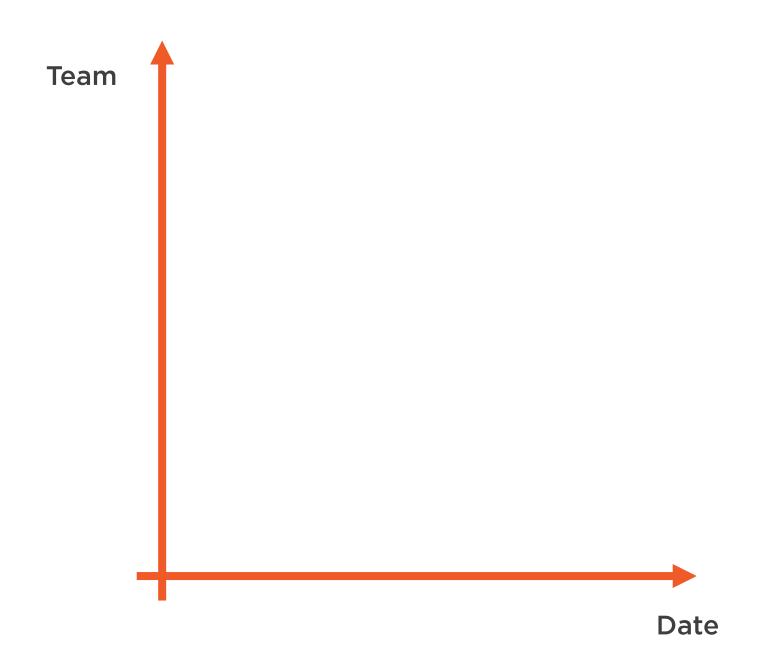
Interactive display of additional information



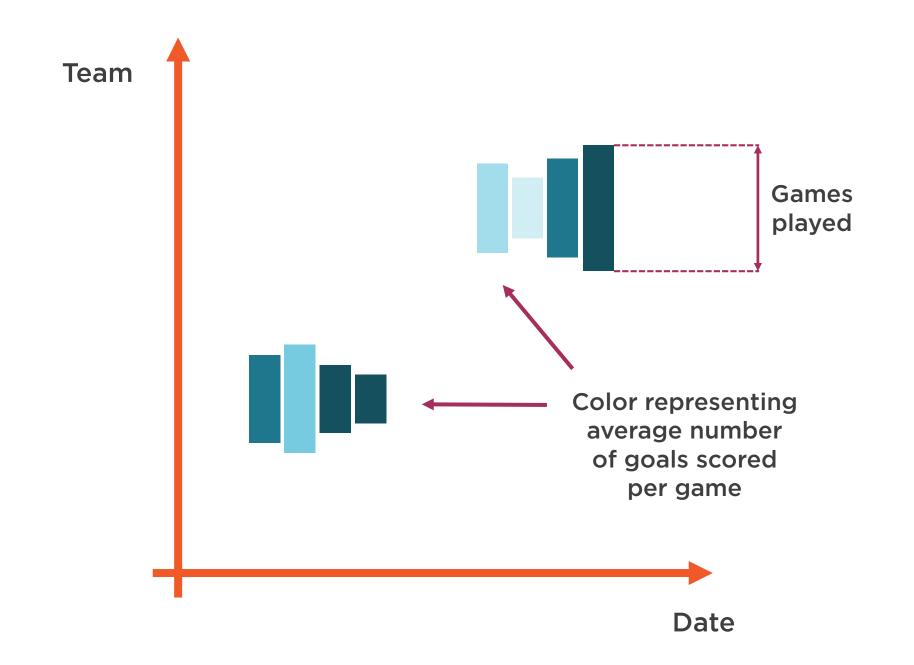














Summary



You are familiar with the Bokeh library

You can build complex plots from simple building blocks

You understand the importance of the right representations



Course Wrap-up





Joins



Joins

Wide and long formats



Joins

Wide and long formats

Multi-level indexes



Joins

Wide and long formats

Multi-level indexes

Time series



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Wide and long formats

Multi-level indexes

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Windows



Joins

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Windows

Complex visualizations



Thank you!

