Tables

When to use:

- to look-up and one-to-one comparisons
- to examine quant values to find patterns
- for cases that require more exact number representation than a graph can provide
- data include multiple sets of quant values expressed in different units of measure (difficult to graph)
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- to combine summary and detail information in one display

	MedInc	HouseAge	AveRooms	AveBedrms	Population	AveOccup	Latitude	Longitude
4	4.0156	35.0	6.195312	1.171875	669.0	5.226562	33.93	-117.41
42	3.6429	26.0	5.836111	1.083333	2171.0	6.030556	38.57	-122.44
72	2.7759	30.0	4.167619	1.059048	2727.0	5.194286	33.83	-118.08
143	3.0509	30.0	5.598131	1.172897	1019.0	4.761682	33.94	-117.40
168	2.6300	29.0	3.496212	1.003788	2576.0	4.878788	33.97	-118.14

Font Specifications

Pandas DataFrame Table Font
Style: *inherited from user's browser
Size: *inherited from user's browser
Color: *inherited from user's browser

Matplotlib Table Font
DejaVu Sans (MatplotLib default)
sz 10 (MatplotLib default)
Color: #000000 (default black)

DF Color Specifications

Pandas DF Table Colors - df.plot()
Gridline Color: *inherited from user's browser
Alt Row Color: *inherited from user's browser

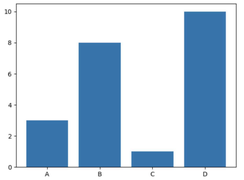
Matplotlib Table Colors
Gridline Color: #000000 (default black)
Alt Row Color: #F5F5F5 (default grey)

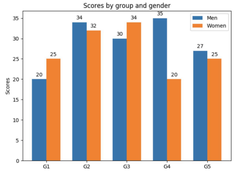
TLDR:* Use Matplotlib defaults when possible - ***import matplotlib.pyplot as plt*

Bar Charts

When to use:

- to compare groups
- to compare groups over time
- to show distribution





Best Practices

- always start baseline at 0
- avoid fill patterns
- fill colors should be equal intensity for data that are equally important
- use fill colors that are distinct from each other for categorical information
- only use a bar border to draw attention to a specific bar of data

Font Specifications

Pandas Bar Chart Font
Style: *inherited from user's browser
Size: *inherited from user's browser
Color: *inherited from user's browser

Matplotlib Bar Chart Font
DejaVu Sans (MatplotLib default)
Size: 10 (MatplotLib default)
plt.xlabel - set to 14
plt ylabel- set to 14
plt.title - set to 16
Color: #000000 (default black)

DF Color Specifications

Pandas Bar Chart Colors
Bar Color: *inherited from user's browser
Outline Color: *inherited from user's browser

Matplotlib Bar Chart Colors
Bar Color: #000000 (default black)
Ouline Color: #F5F5F5 (default grey)

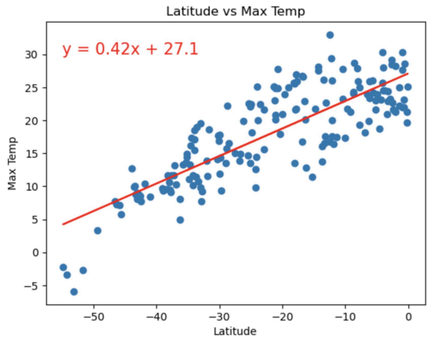
Default Colors

- #1F77B4
- #FF7F0E
- #2CA02C
- #D62728
- #9467BD
- #8C564B
- #E377C2
- #7F7F7F
- #BCBD22
- #17BECF

TLDR:* Use Matplotlib defaults when possible - ***import matplotlib.pyplot as plt*

Scatterplots and Regression Lines

```
The r^2-value is: 0.6720220238897325
```



Pie Charts