Data Visualization in Matplotlib
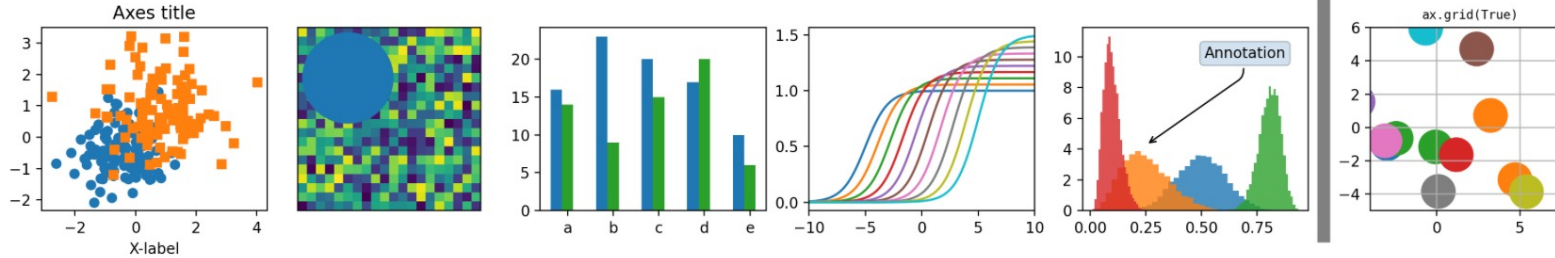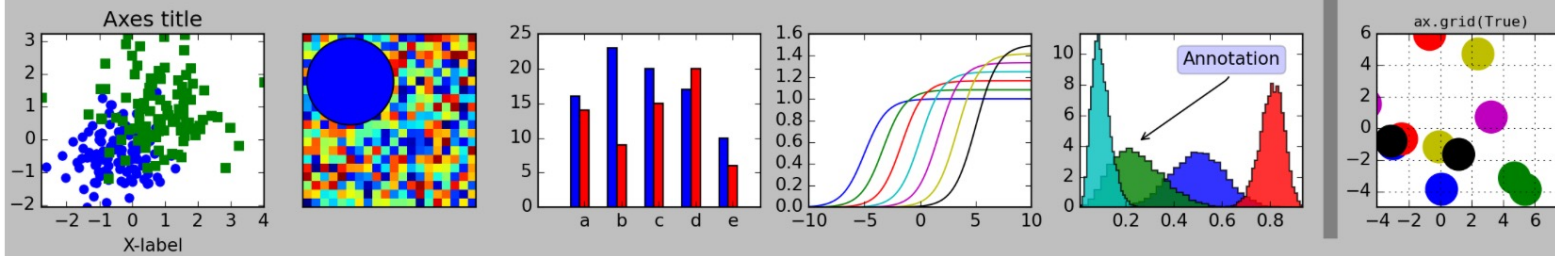
Matplotlib style sheets reference
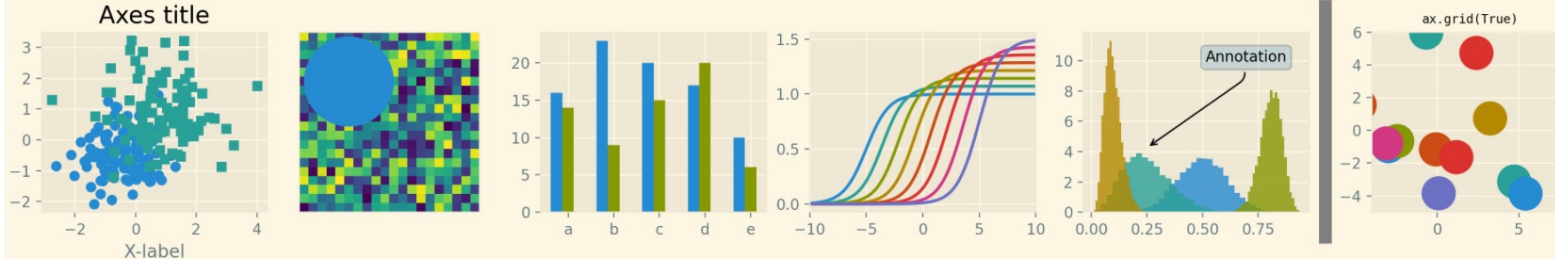

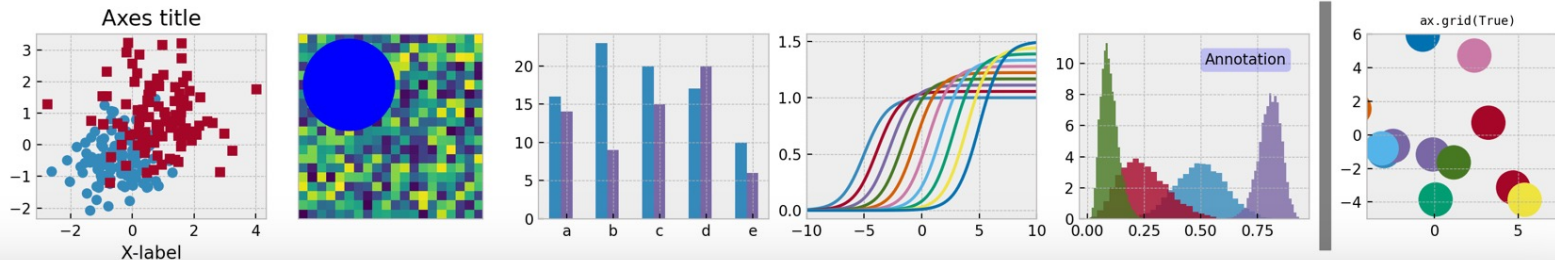- Matplotlib offers a number of different styles for plotting.
- We are using the fivethirtyeight style

Matplotlib colors

CSS colors

Base colors

b
g
r
c
m
y
k
w

Tableau Palette

tab:blue
tab:orange
tab:green
tab:red
tab:purple
tab:brown
tab:pink
tab:gray
tab:olive
tab:cyan

- These colors can by used as string arguments for various plotting functions

black	bisque	forestgreen	slategrey
dimgray	darkorange	limegreen	lightsteelblue
dimgrey	burlywood	darkgreen	cornflowerblue
gray	antiquewhite	green	royalblue
grey	tan	lime	ghostwhite
darkgray	navajowhite	seagreen	lavender
darkgrey	blanchedalmond	mediumseagreen	midnightblue
silver	papayawhip	springgreen	navy
lightgray	moccasin	mintcream	darkblue
lightgrey	orange	mediumspringgreen	mediumblue
gainsboro	wheat	mediumaquamarine	blue
whitesmoke	oldlace	aquamarine	slateblue
white	floralwhite	turquoise	darkslateblue
snow	darkgoldenrod	lightseagreen	mediumslateblue
rosybrown	goldenrod	mediumturquoise	mediumpurple
lightcoral	cornsilk	azure	rebeccapurple
indianred	gold	lightcyan	blueviolet
brown	lemonchiffon	paleturquoise	indigo
firebrick	khaki	darkslategray	darkorchid
maroon	palegoldenrod	darkslategrey	darkviolet
darkred	darkkhaki	teal	mediumorchid
red	ivory	darkcyan	thistle
mistyrose	beige	aqua	plum
salmon	lightyellow	cyan	violet
tomato	lightgoldenrodyellow	darkturquoise	purple
darksalmon	olive	cadetblue	darkmagenta
coral	yellow	powderblue	fuchsia
orangered	olivedrab	lightblue	magenta
lightsalmon	yellowgreen	deepskyblue	orchid
sienna	darkolivegreen	skyblue	mediumvioletred
seashell	greenyellow	lightskyblue	deeppink
chocolate	chartreuse	steelblue	hotpink
saddlebrown	lawngreen	aliceblue	lavenderblush
sandybrown	honeydew	dodgerblue	palevioletred
peachpuff	darkseagreen	lightslategray	crimson
peru	palegreen	lightslategrey	pink
linen	lightgreen	slategray	lightpink

Hexadecimal color codes

- Alternatively, you can use hexadecimal color codes as arguments for plotting functions, which offer more flexibility and specificity in color choice.
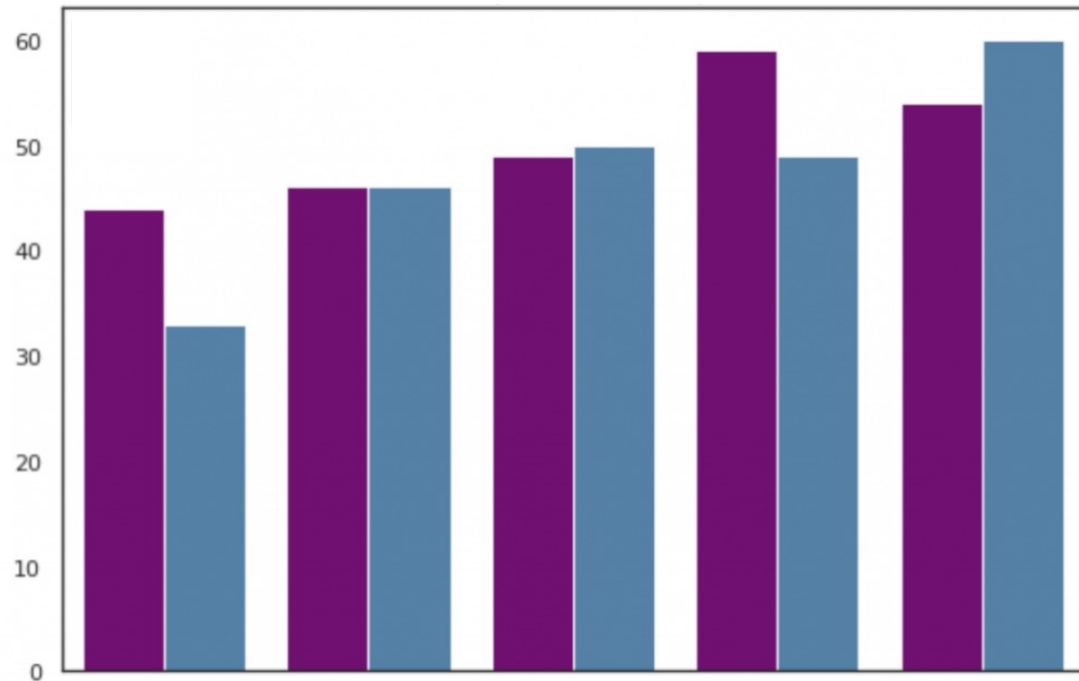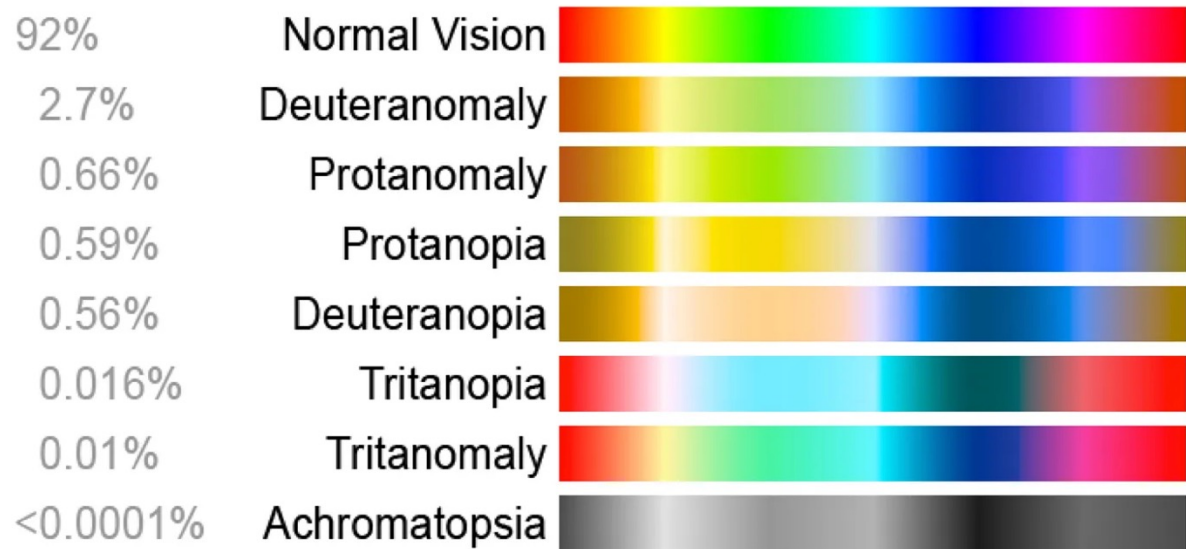
1. Pick a color

#1ecbe1

Graph Annotation

- You should always aim to add as much descriptive detail about your graphs through the use of axis labeling, titles, and legends

Colorblind-friendly palettes

- Be mindful about the usage of colors when making graphs.
- Try to use color palettes that increase accessibility by using contrasting colors.