



Data Visualization Style Guidelines

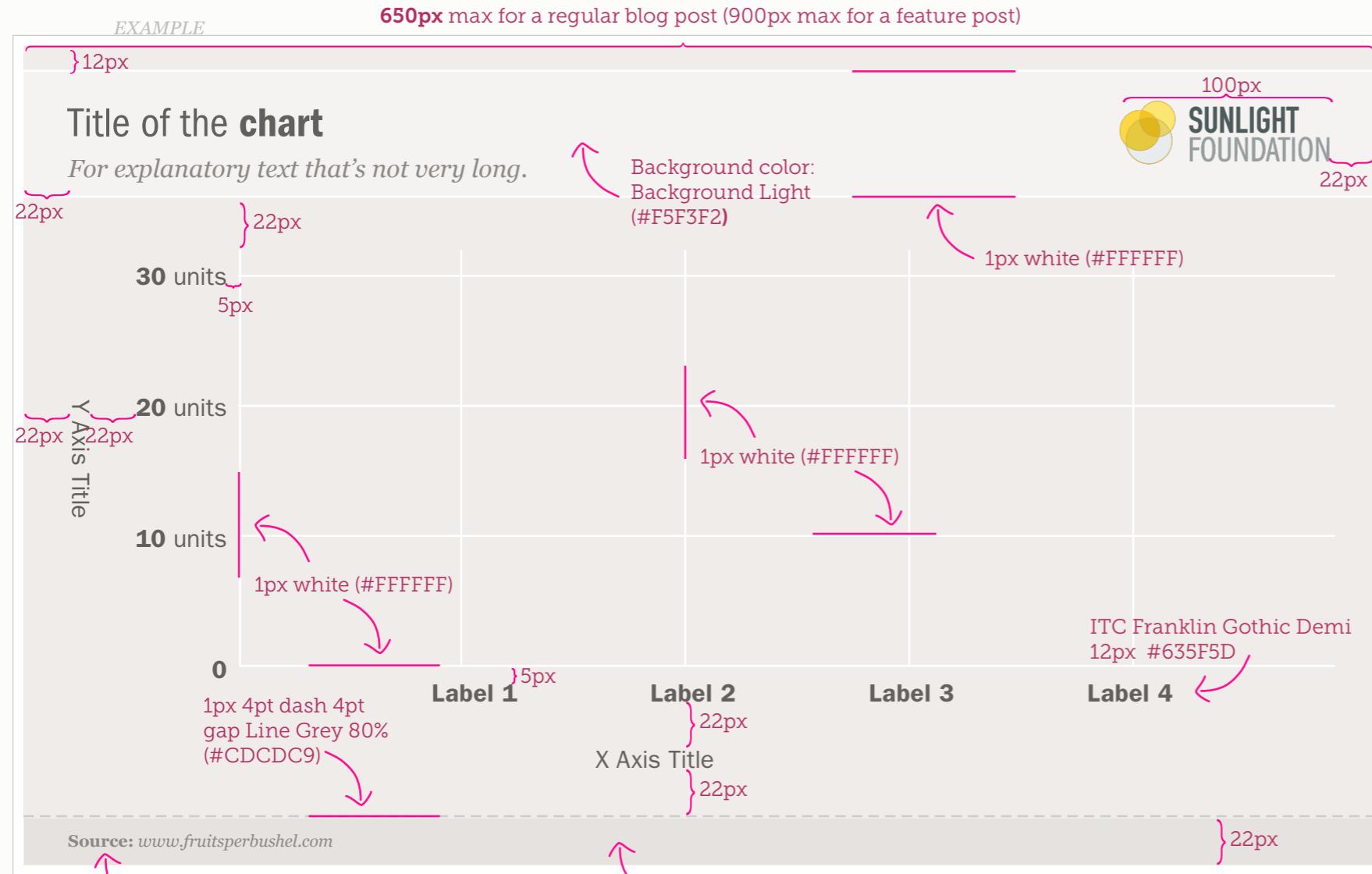
This guide includes:

- » basic graph structure
- » bar graphs
- » line graphs
- » pie charts
- » scatter plots
- » maps
- » graph or chart colors
- » choropleth colors for maps
- » network visualization colors

FORWARD

This guide is meant to be a starting point for creating data visualizations for this organization. “Data Series” like the 1% of the 1% may have their own twist on these foundations. Visualizations that pertain to a particular project, like the 5 year review of Political Party Time, may also have variations on these standards. Feel free to use these as a starting point, and do what makes sense for your particular data. Please remember to respect the data as you go forth into the wonderful, but often confusing, world of turning numbers into visuals.

Basic Structure



Download the sunlight logo @
<http://sunlightfoundation.com/press/logos>

Height is variable. Make them as long as you need them to be since these are mainly web graphics.

Text Styles

Header Title with **emphasis**

ITC Franklin Gothic Std | Book Condensed with Demi Condensed emphasis | 20px | Left Aligned | #635F5D (Text Main)

Header title explanatory text

Georgia | italic | 12px | left aligned | #8E8883 (Text Light)

X axis & Y axis labels

ITC Franklin Gothic Std | Demi | 12px | centered on line | #635F5D (Text Main)

X Axis & Y Axis Title

ITC Franklin Gothic Std | Book | 12px | centered | #635F5D (Text Main)

Key labels

ITC Franklin Gothic Std | Book | 10px | left aligned | #635F5D (Text Main)

Callout text

Georgia | italic | 10px | left aligned | #635F5D (Text Main)

Point Label

ITC Franklin Gothic Std | Book | 10px | right aligned to point | #635F5D (Text Main)

Source: www.fruitsperbushel.com

Georgia | bold title with italic text | 8px | left aligned | #8E8883 (Text Light)

Background Colors

Base Colors

Background



CMYK: 5, 5, 5, 0
RGB: 239, 236, 234
Hex: #EFECEA

Background Light Accent



CMYK: 2, 2, 2, 0
RGB: 245, 243, 242
Hex: #F5F3F2

Background Dark Accent



CMYK: 9, 8, 8, 0
RGB: 229, 226, 224
Hex: #E5E2E0

Text Main



CMYK: 59, 54, 54, 25
RGB: 99, 95, 93
Hex: #635F5D

Text Light



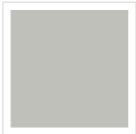
CMYK: 46, 41, 44, 5
RGB: 142, 136, 131
Hex: #8E8883

Line White



CMYK: 0, 0, 0, 0
RGB: 255, 255, 255
Hex: #FFFFFF

Line Grey Accent



CMYK: 25, 19, 23, 0
RGB: 192, 192, 187
Hex: #C0C0BB

Data Colors

○ Main Colors

a thing



CMYK: 12, 24, 100, 0
RGB: 227, 186, 34
Hex: #E3BA22

a different thing



CMYK: 7, 57, 97, 1
RGB: 230, 132, 42
Hex: #E6842A

another different thing



CMYK: 86, 35, 46, 10
RGB: 19, 123, 128
Hex: #137B80

another different thing



CMYK: 48, 61, 28, 4
RGB: 142, 109, 138
Hex: #8E6C8A

neutral thing



CMYK: 42, 38, 49, 4
RGB: 151, 143, 128
Hex: #978F80

No Data



CMYK: 9, 8, 8, 0
RGB: 229, 226, 224
Hex: #E5E2E0

a subset of the thing



CMYK: 6, 9, 78, 0
RGB: 242, 218, 87
Hex: #F2DA57

a subset of the different thing



CMYK: 2, 31, 76, 0
RGB: 246, 182, 86
Hex: #F6B656

a subset of the other different thing



CMYK: 70, 17, 28, 0
RGB: 66, 165, 179
Hex: #42A5B3

a subset of the other different thing



CMYK: 31, 42, 18, 0
RGB: 179, 150, 173
Hex: #B396AD

a subset of the neutral thing



CMYK: 25, 22, 32, 0
RGB: 193, 186, 169
Hex: #C1BAA9

a subset of the thing



RGB: 189, 143, 34
Hex: #BD8F22

a subset of the different thing



RGB: 186, 95, 6
Hex: #BA5F06

a subset of the other different thing



RGB: 0, 93, 110
Hex: #005D6E

a subset of the other different thing



RGB: 104, 70, 100
Hex: #684664

a subset of the neutral thing



RGB: 124, 113, 94
Hex: #7C715E

○ Specialty Colors

Republican



CMYK: 27, 84, 96, 22
RGB: 154, 62, 37
Hex: #9A3E25

Democrat



CMYK: 89, 52, 27, 6
RGB: 21, 107, 144
Hex: #E6842A

Independent



CMYK: 58, 34, 73, 13
RGB: 112, 130, 89
Hex: #708259

Con



CMYK: 18, 95, 98, 8
RGB: 189, 45, 40
Hex: #BD2D28

Pro



CMYK: 84, 24, 60, 5
RGB: 15, 140, 121
Hex: #0F8C79

Money



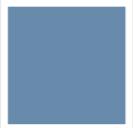
CMYK: 67, 30, 100, 13
RGB: 92, 129, 0
Hex: #5C8100

a subset of Republican



CMYK: 25, 60, 69, 8
RGB: 179, 112, 85
Hex: #B37055

a subset of Democrat



CMYK: 64, 38, 20, 1
RGB: 104, 139, 171
Hex: #688BAB

a subset of independent



CMYK: 44, 27, 57, 2
RGB: 149, 161, 126
Hex: #95A17E

a subset of Con



CMYK: 6, 79, 80, 1
RGB: 226, 90, 66
Hex: #E25A42

a subset of Pro



CMYK: 58, 5, 45, 0
RGB: 107, 187, 161
Hex: #6BBA1

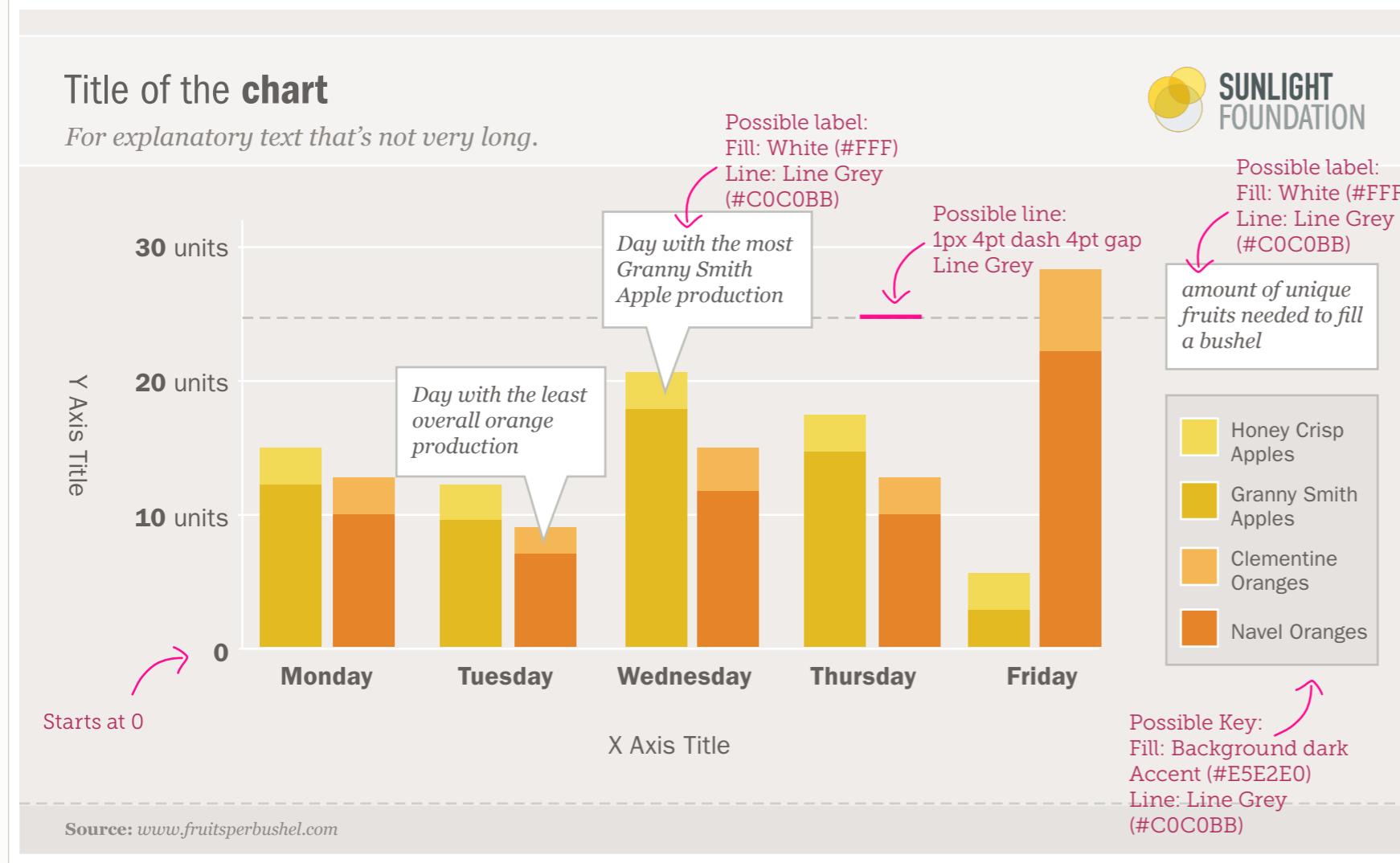
a subset of Money



CMYK: 43, 12, 100, 0
RGB: 160, 183, 0
Hex: #A0B700

Bar Graph (categorical)

EXAMPLE



When to use a Bar or Column Chart

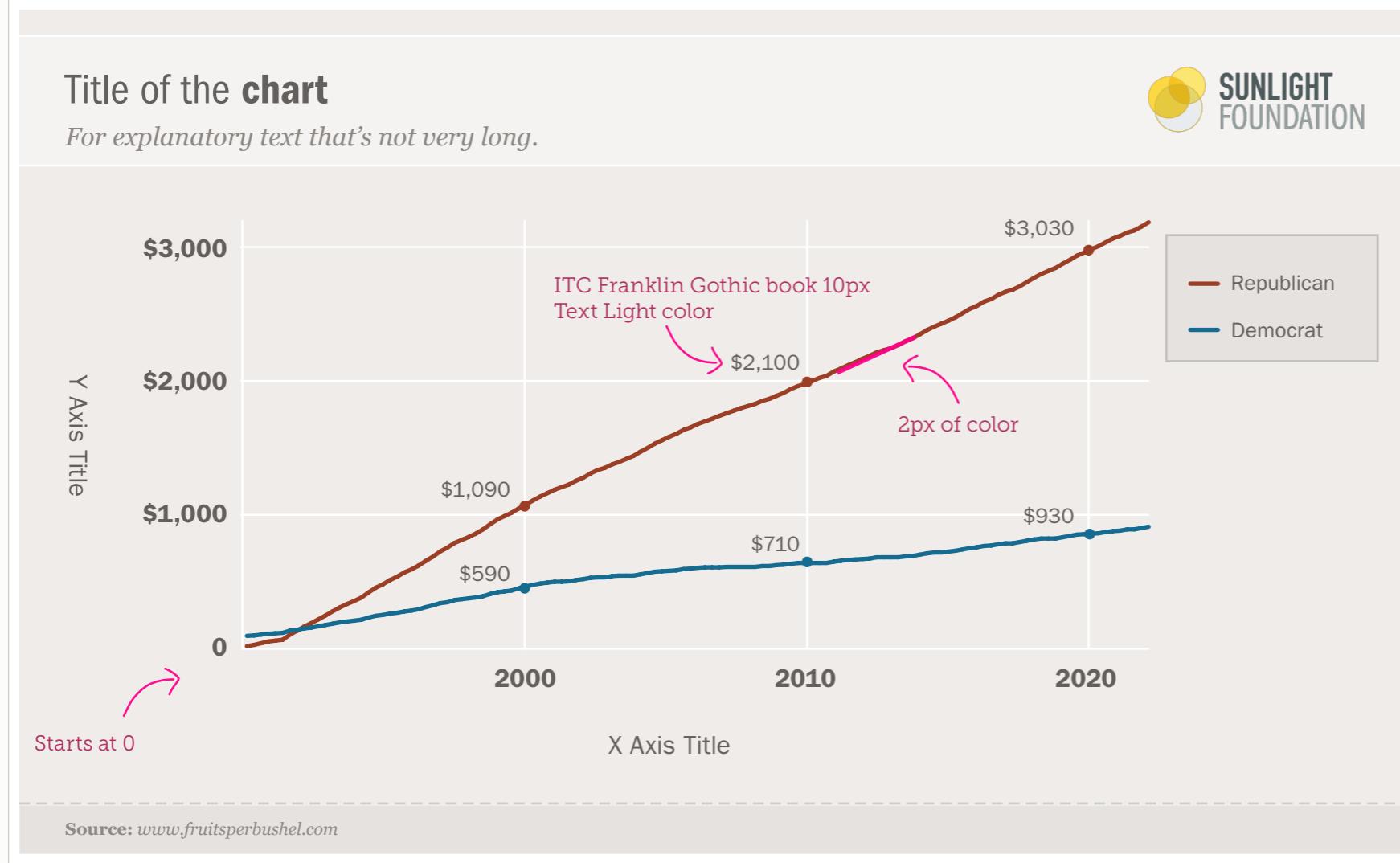
- » Use mostly for one variable.
- » Compares numerical values for different observations. Shows relative amounts.
- » Grouped or stacked bars or columns can break that one numerical variable out into different sub-groups.

Your data should look like:

	Honey Crisp	Granny Smith	Clementine	Navel
Monday	3	12	3	10
Tuesday	3	9	2	7
Wednesday	3	18	4	12
Thursday	3	15	3	10
Friday	3	3	5	22

Line Graph (political)

EXAMPLE



When to use a Line Graph

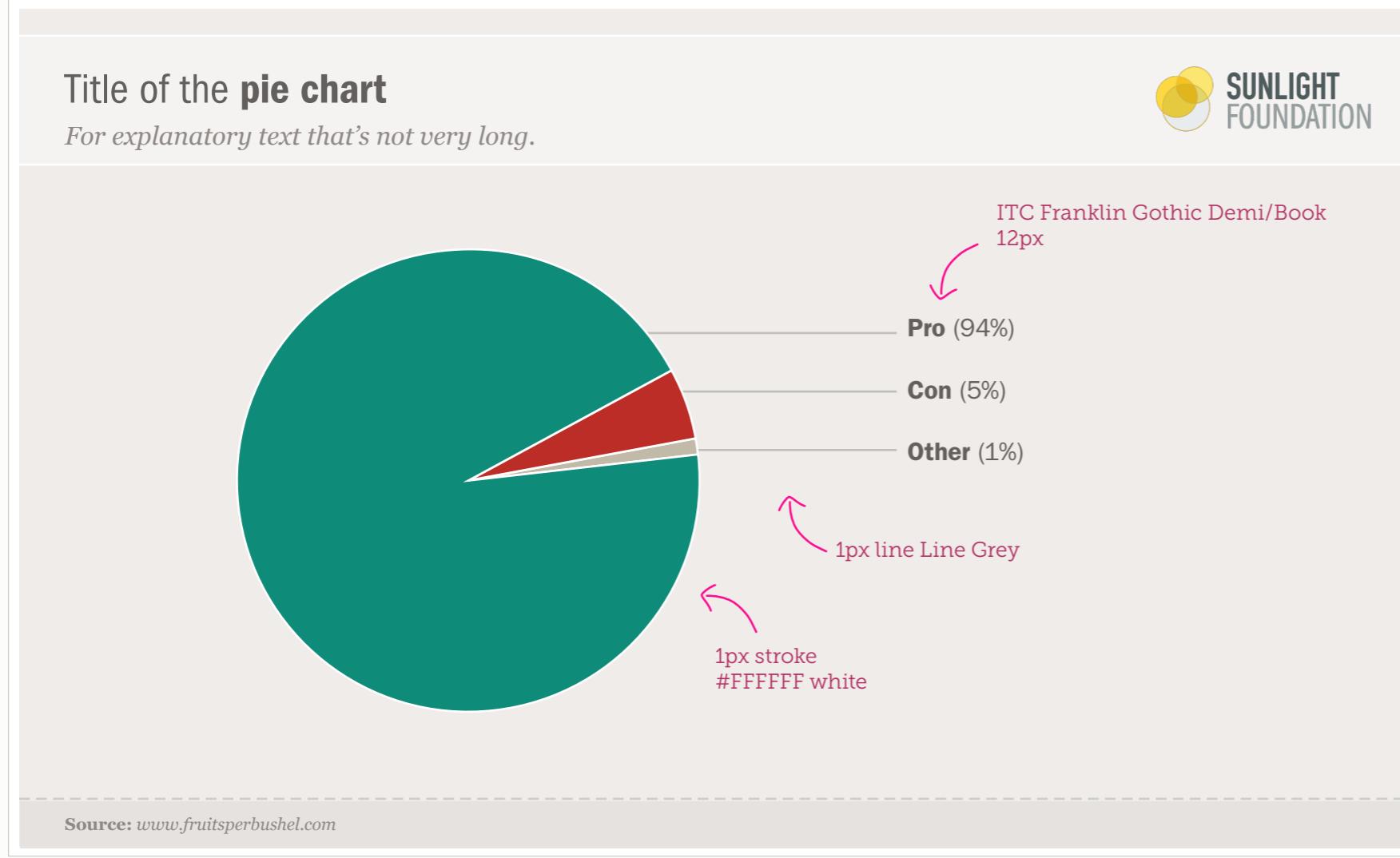
- » Shows the trend in one variable usually over time.
- » Multiple lines can show multiple variables (if they are on the same scale).
- » Multiple lines can also show the same variable for multiple observations.

Your data should look like:

Time	Republican	Democrat
1990	1	2
1991	2	5
1992	4	9
1996	6	13
1994	7	15
1995	8	17

Pie Chart (pro/con)

EXAMPLE



When to use a Pie Chart

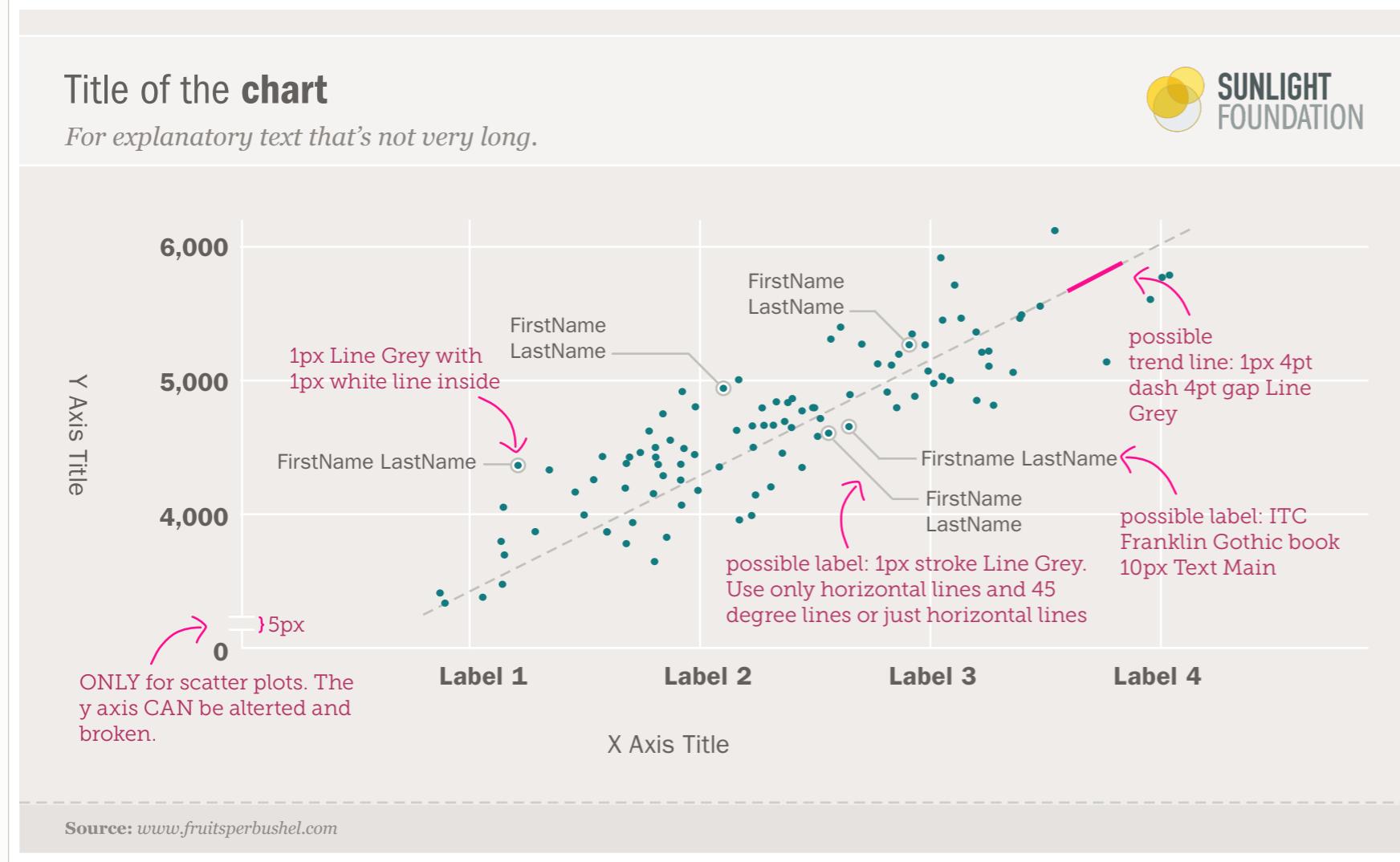
- » Use them very sparingly. Often a bar or column chart is better. It is much more difficult to visually judge the size of circles (or circle segments) vs. rectangles.
- » You want to show the relative relationship between 2-3 things.
- » They add up to 100% (which may necessitate the inclusion of a category such as "none", "other", etc.)

Your data should look like:

Pro	Con	Other
94	5	1

Scatter Plot (single variable)

EXAMPLE



When to use a Scatter Plot

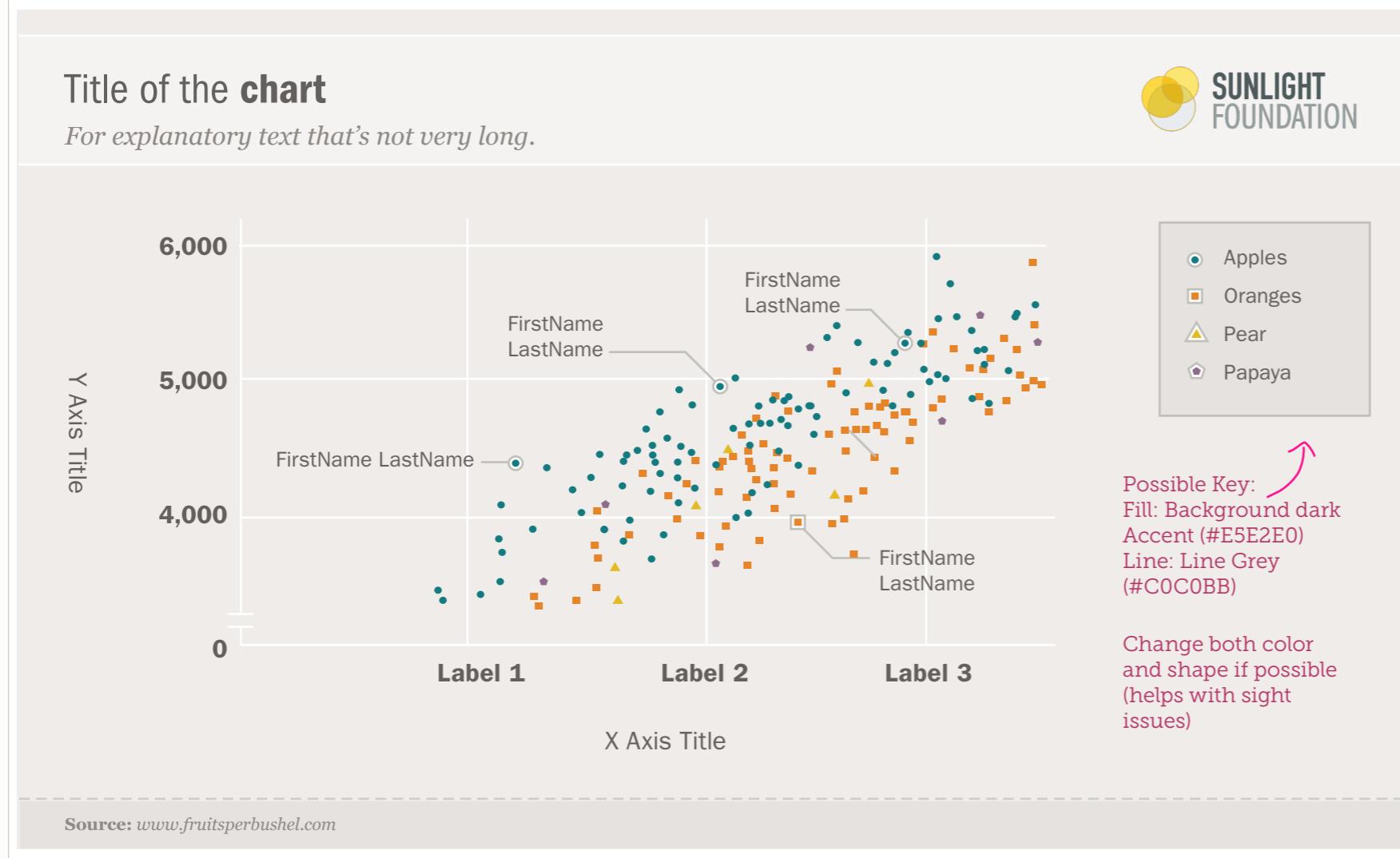
- » Shows the relationship between two continuous variables for your set of observations.
- » Each point in the plot represents an object.
- » You can change color or symbol to show groups.
- » Sometimes it is nice to show a trend line (regression).

Your data should look like:

variable 1	variable 2
7.560309668	48.87193277
8.569477057	57.70873996
5.178854559	35.50990599
5.044602676	31.94896911
7.629095533	49.76954493
6.631379	46.66529366
7.035723733	45.68632108
8.152163624	57.46279438

Scatter Plot (multi variable)

EXAMPLE



When to use a Scatter Plot

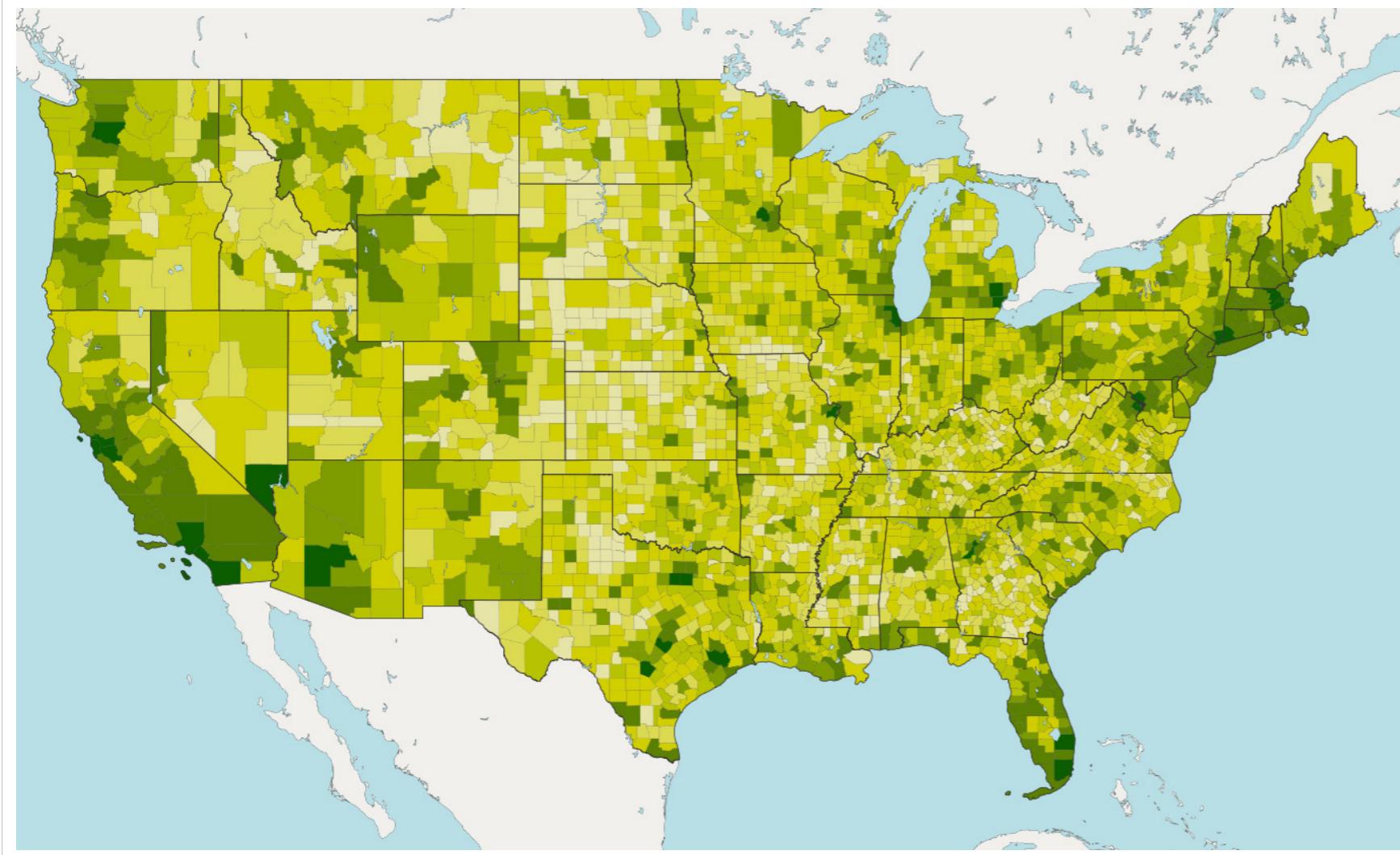
- » Shows the relationship between two continuous variables for your set of observations
- » Each point in the plot represents an object.
- » You can change color or symbol to show groups.
- » Sometimes it is nice to show a trend line (regression).

Your data should look like:

variable 1	variable 2
7.560309668	48.87193277
8.569477057	57.70873996
5.178854559	35.50990599
5.044602676	31.94896911
7.629095533	49.76954493
6.631379	46.66529366
7.035723733	45.68632108
8.152163624	57.46279438

Map (sequential, single hue, money)

EXAMPLE



When to use a Map

- » Be sure to only use a map if the primary component of your data is geographical. Sometimes a ranked list or bar chart is better if you are just trying to compare a single value for each state.
- » Color scale comparisons are harder for humans than size comparisons. Keep this in mind as you choose between a map or another layout.

Choropleth Colors (for maps)

Political Colors (stick to choropleths of 5 or fewer colors for maximum readability)

More Republican



#712422



#9A3E25



#B37055



#D9A78D

Less Republican



#EDCEBC

No data



#E5E2E0

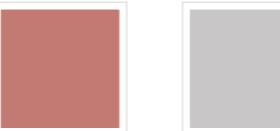
Non-political Colors (stick to choropleths of 5 or fewer colors for maximum readability)

Anti



#BD2D28

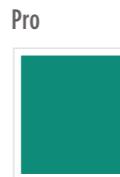
50/50



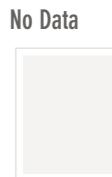
#C37A73



#75A999



#0F8C79



#E5E2E0

More Democrat



#05426C



#E6842A

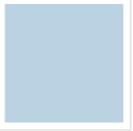


#688BAB



#8CAEC6

Less Democrat



#BAD2E2

No data



More Money



#0C4E00



#5C8100



#A0B700



#D2CF00



#E5E2E0

More Republican



#9A3E25



#D9A78D



#C8C6C6



#8CAEC6

More Democrat



#E6842A

No data



More Thing



#936B00



#BD8F22



#E3BA22



#F2DA57



#E5E2E0

Network Graph Colors

30 colors. TRY not to use them all.



#F2DA57

242, 218, 87



#F6B656

244, 182, 86



#E25A42

226, 90, 66



#DCBDCF

220, 189, 207



#B396AD

179, 150, 173



#B0CBDB

176, 203, 219



#33B6D0

51, 182, 208



#7ABFCC

122, 191, 204



#C8D7A1

200, 215, 161



#A0B700



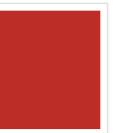
#E3BA22

227, 186, 34



#E58429

229, 132, 41



#BD2D28

189, 45, 40



#D15A86

209, 90, 134



#8E6C8A

142, 108, 138



#6B99A1

107, 153, 161



#42A5B3

66, 165, 179



#0F8C79

15, 140, 121



#6BBBA1

107, 187, 161



#5C8100



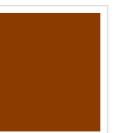
#B08B12

176, 139, 18



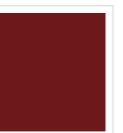
#BA5F06

186, 95, 6



#8C3B00

140, 59, 0



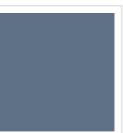
#6D191B

109, 25, 27



#842854

132, 40, 84



#5F7186

95, 113, 134



#193556

25, 53, 86



#137B80

19, 123, 128



#144847

20, 72, 71



#254E00

37, 78, 0