

Comment fausser l'interprétation de vos résultats avec des dataviz

<https://github.com/scauglog/prez>

Qui suis-je ?



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Développeur

Xebia

 @scauglog

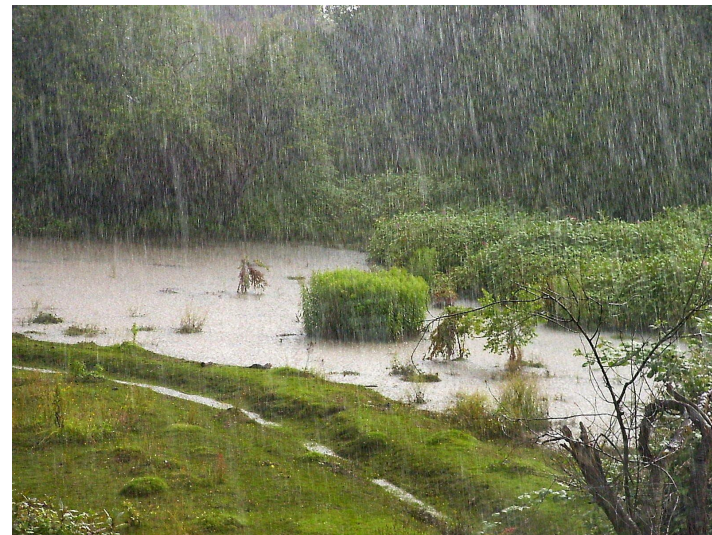
Table

Simple but effective

Data



	2012
April	132
August	63
December	206
February	31
January	132
July	100
June	119
March	47
May	62
November	112
October	245
September	88



Data



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Table

- Value
- Mnemonic Empan = 5
- Accurate

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Table

- Alphabetical Order is the worst

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Table

- Alphabetical Order is the worst
- **Logical Order could be Great**

	2012
January	132
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Table

- Alphabetical Order is the worst
- Logical Order could be Great
- **Sorting value instead of Label is better**

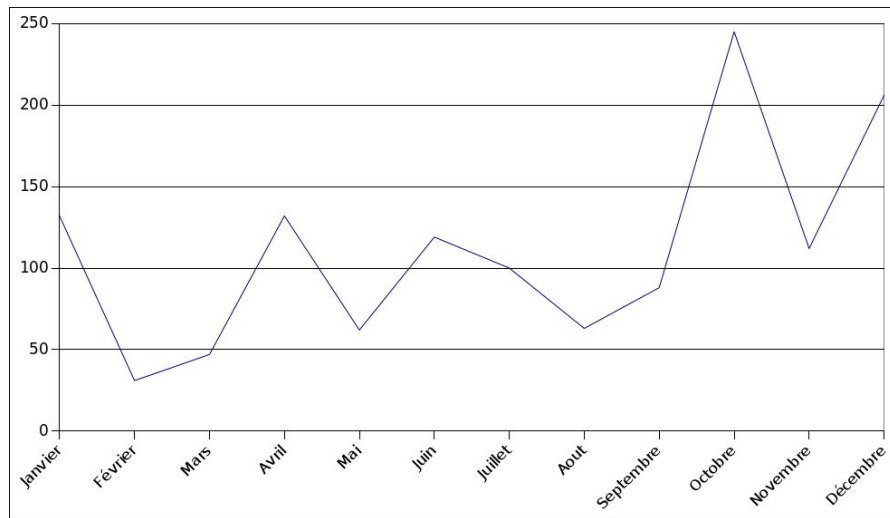
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Line Chart

What? Data is evolving!

Line Chart

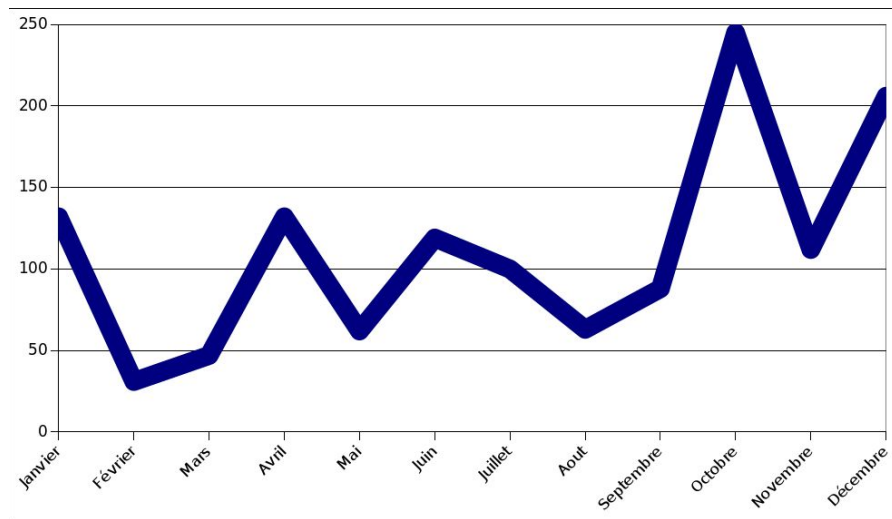
- Evolution
- Angle
- X axis = cause
- Y axis = effect





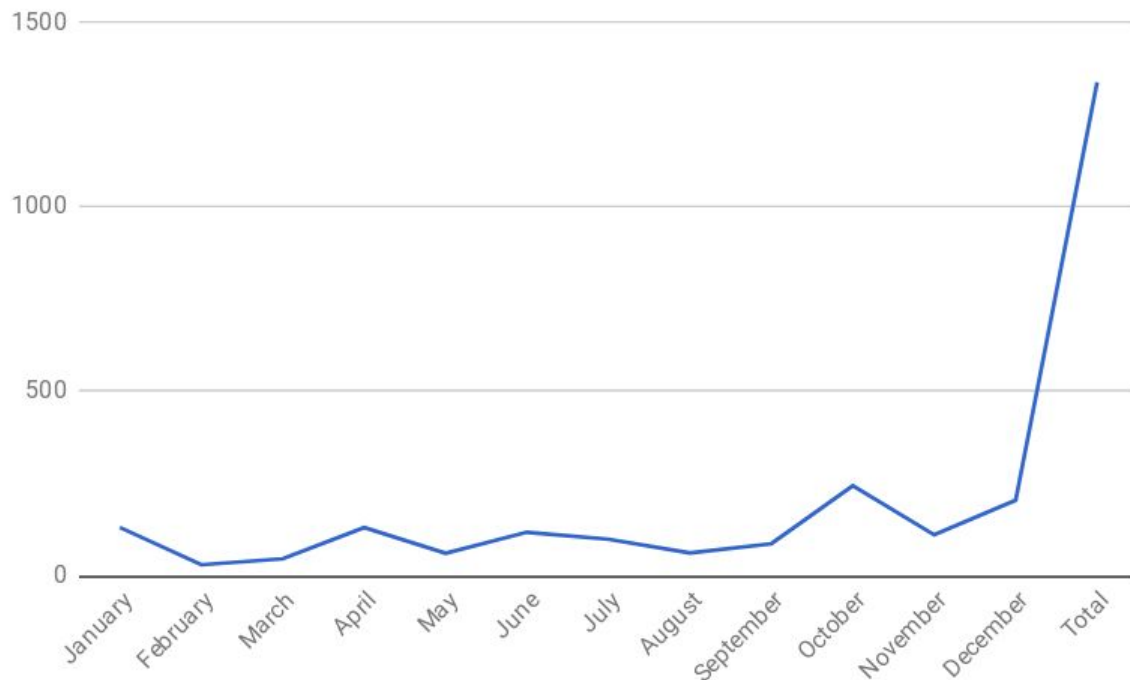
Line Chart

- Bold line decrease effect



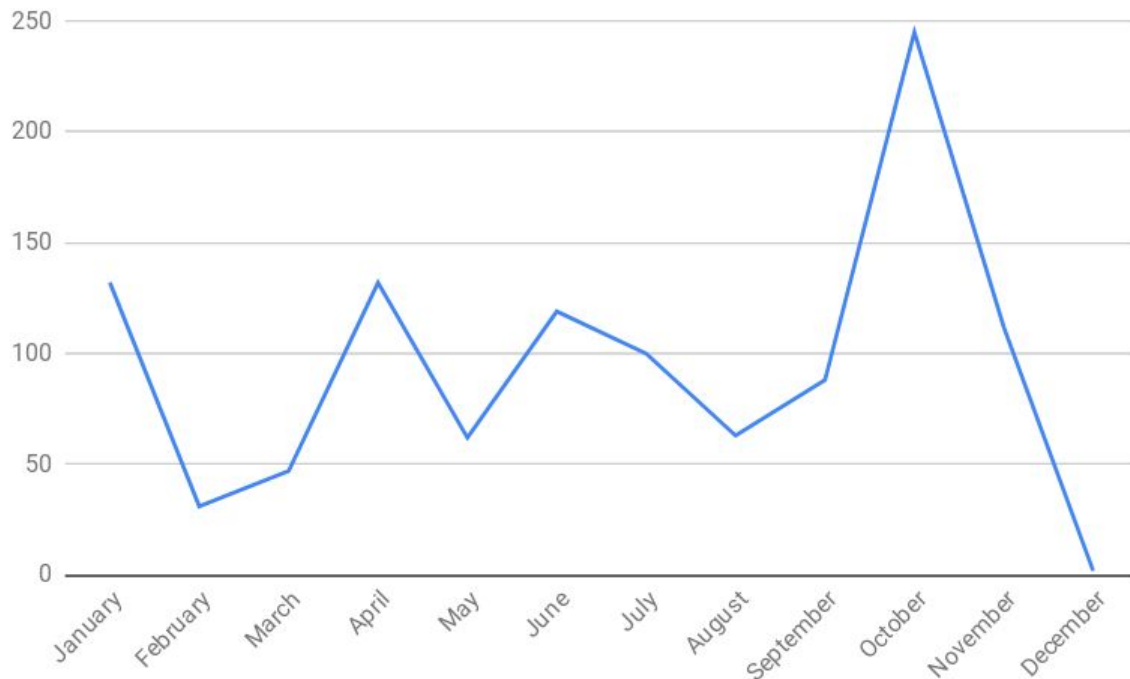
Line Chart

- Bold line decrease effect
- **Sum all category to show an increase**



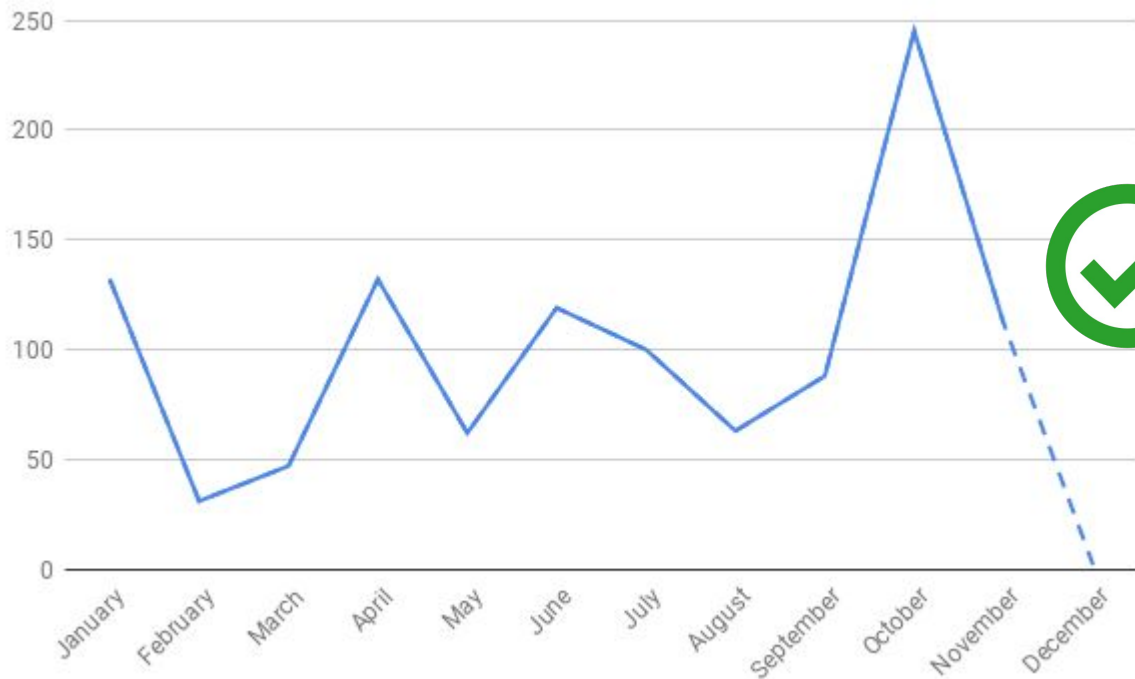
Line Chart

- Bold line decrease effect
- Sum all category to show an increase
- **Plot incomplete category to show a decrease**



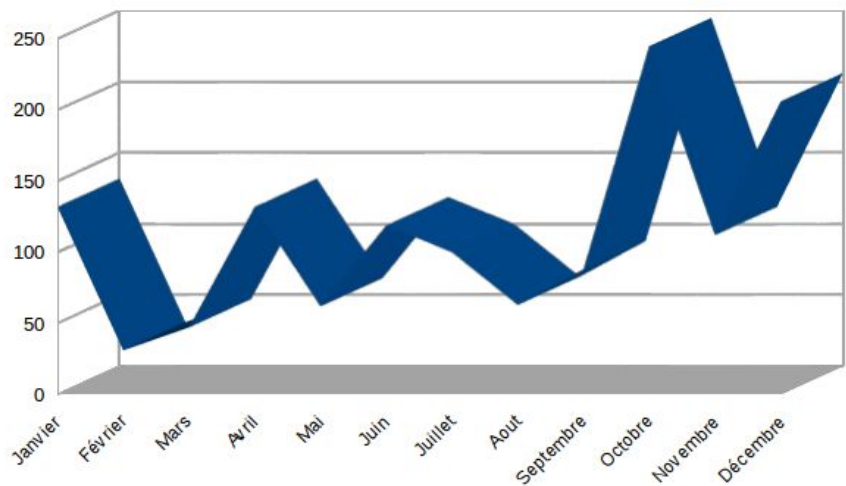
Line Chart

- Bold line decrease effect
- Sum all category to show an increase
- **Plot incomplete category to show a decrease**



Line Chart

- Bold line decrease effect
- Sum all category to show an increase
- Plot incomplete category to show a decrease
- **3D shiny and misleading**

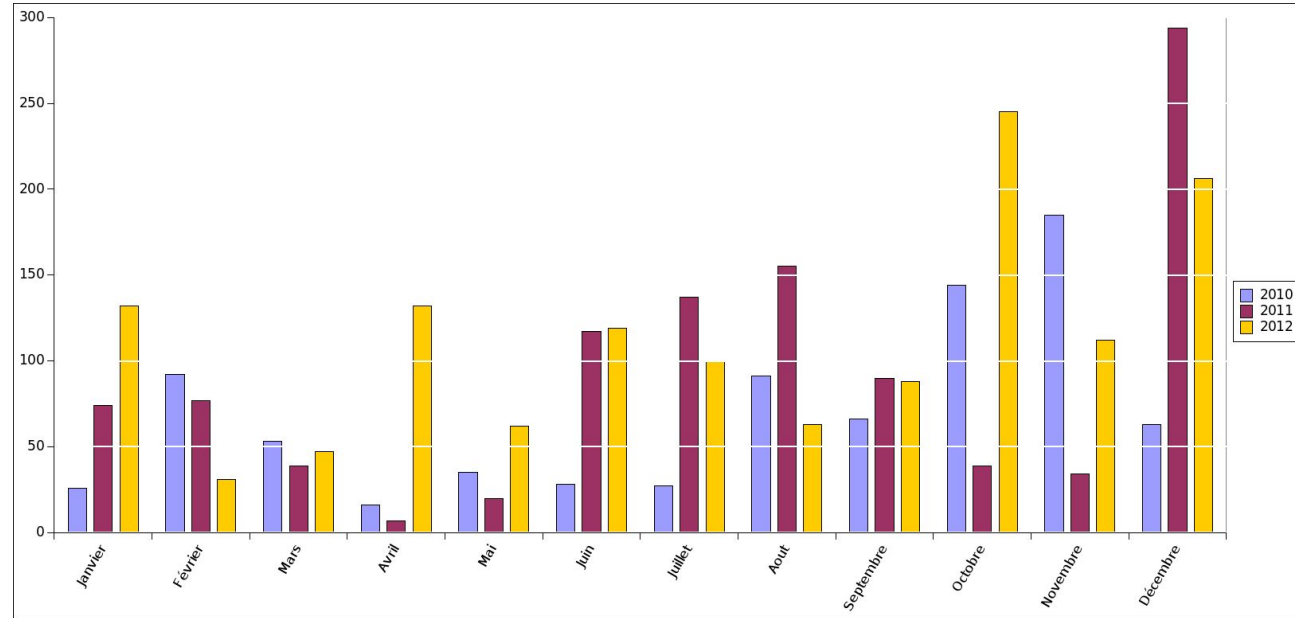


Bar Chart

Not as good as chocolat bar's

Bar Chart

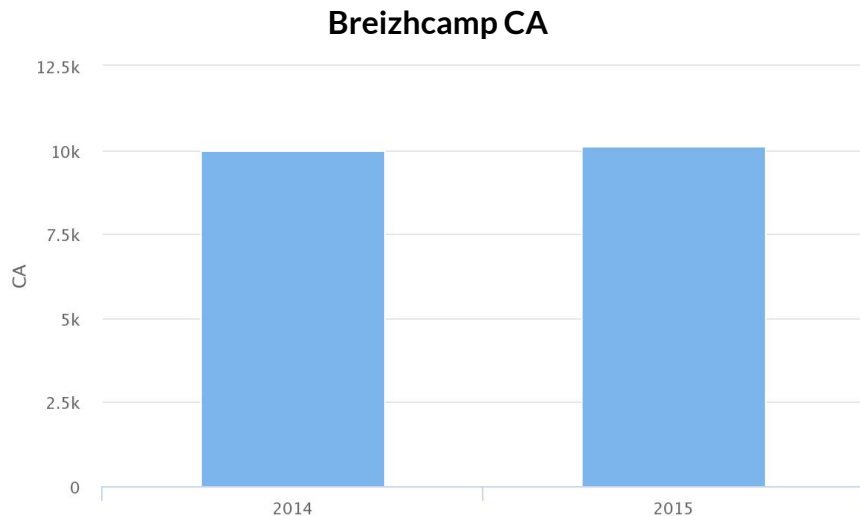
- Comparison
- Group Dimension to Compare





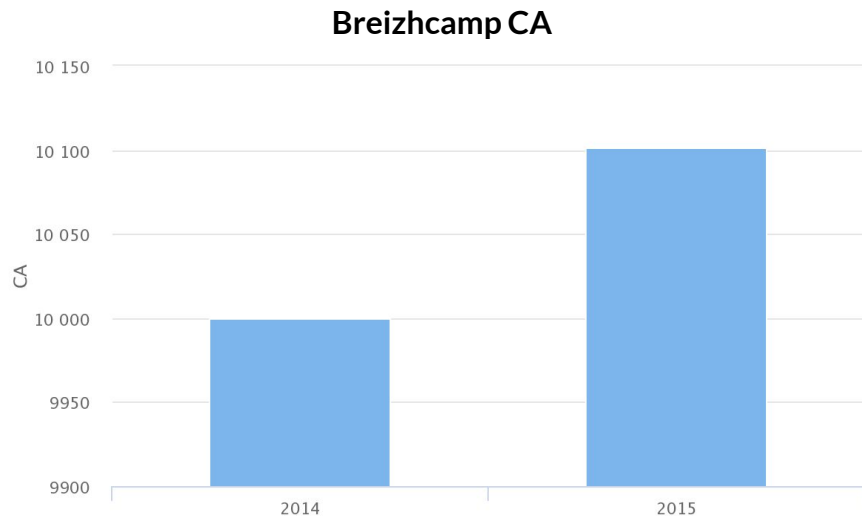
Bar Chart

- Don't start at Zero to increase difference between bar



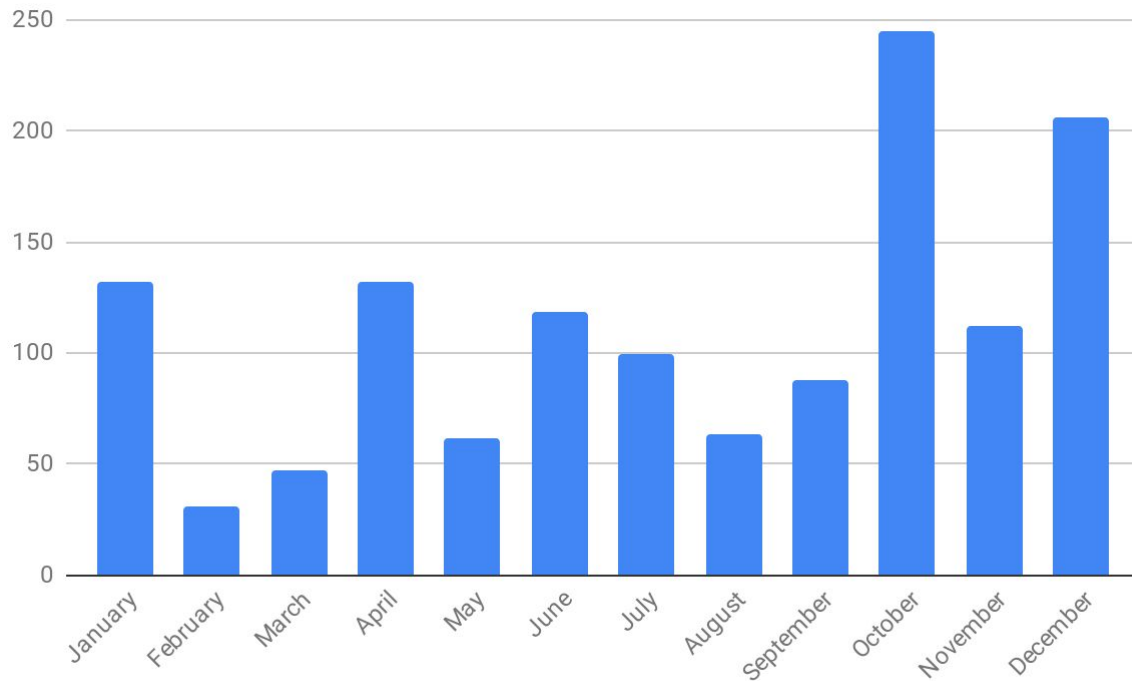
Bar Chart

- Don't start at Zero to increase difference between bar



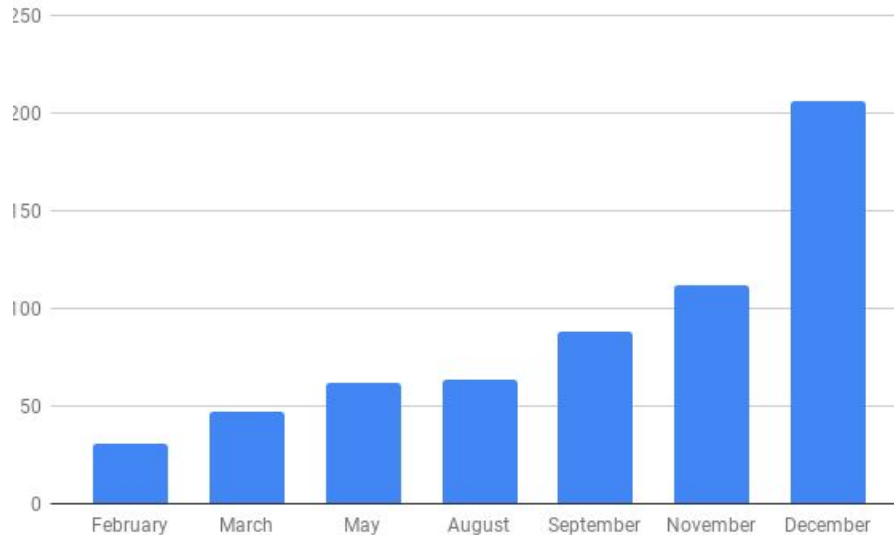
Bar Chart

- Don't start at Zero to increase difference between bar
- **Don't plot data you don't like**



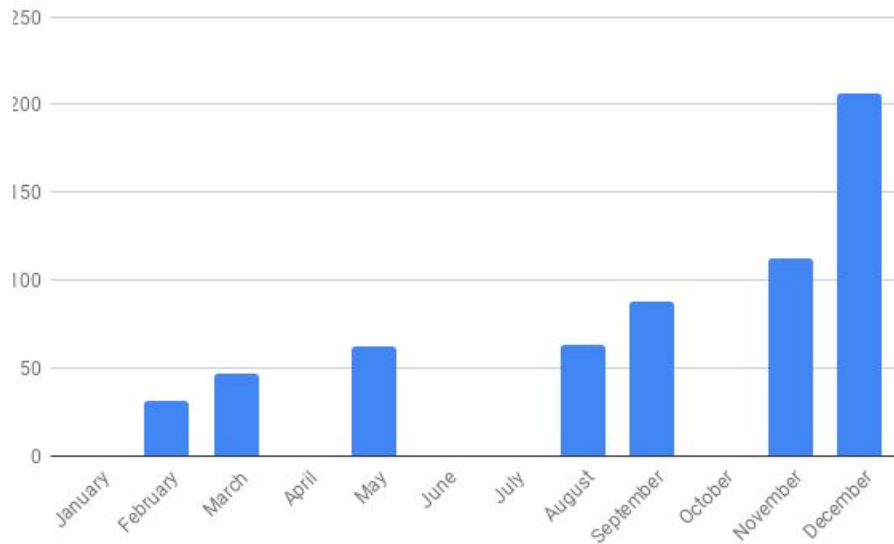
Bar Chart

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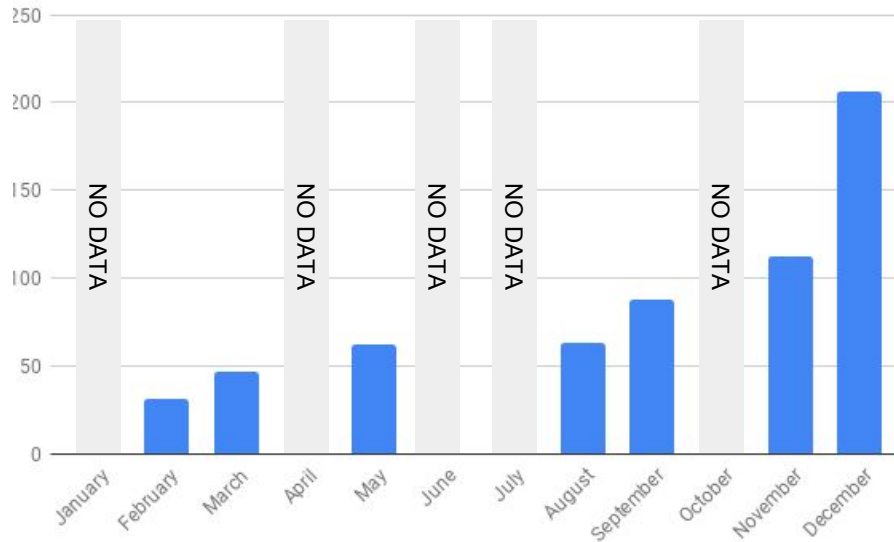
Bar Chart

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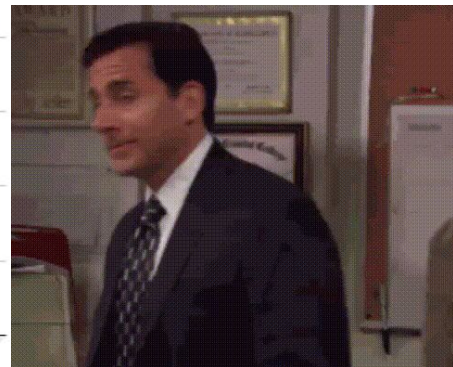
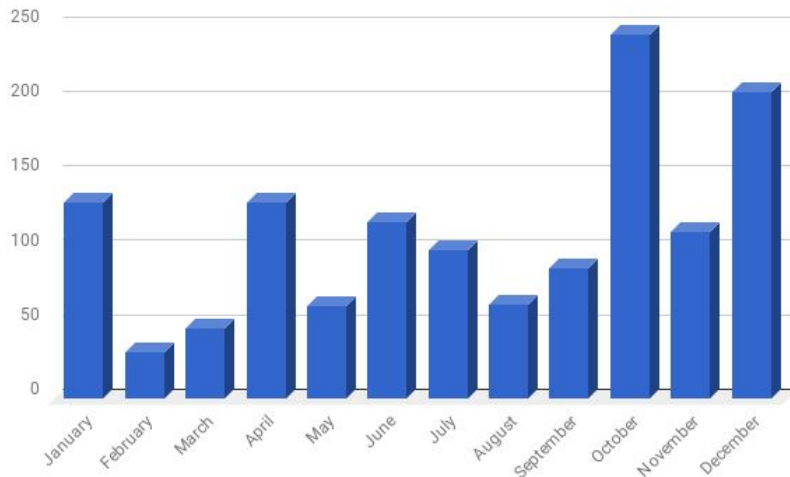
Bar Chart

- Don't start at Zero to increase difference between bar
- **Don't plot data you don't like**



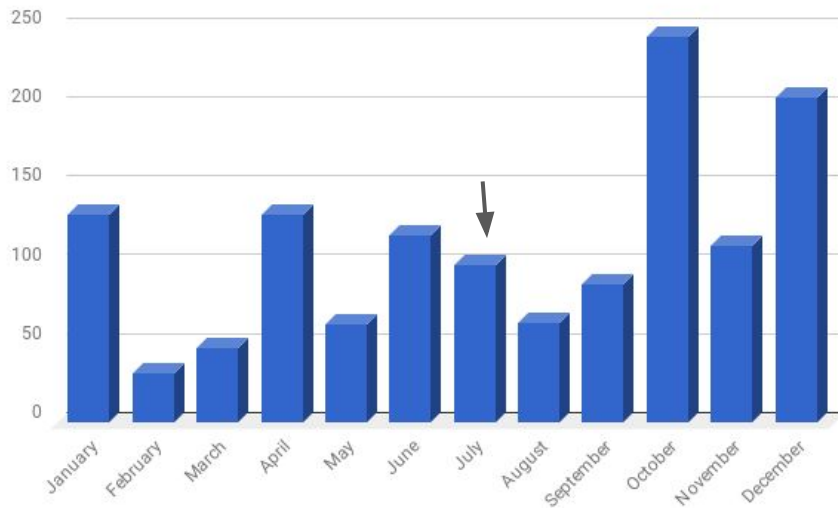
Bar Chart

- Don't start at Zero to increase difference between bar
- Cut scale to reduce gap between data
- Don't plot data you don't like
- **3D you will never get the right number**



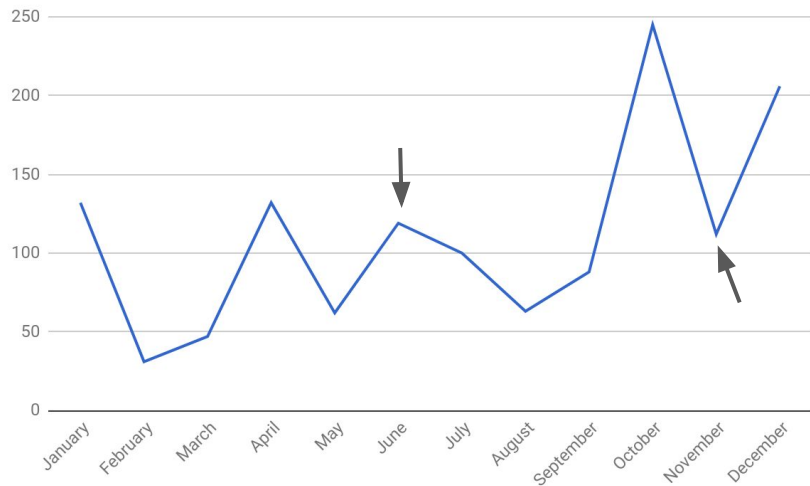
Bar Chart

- Don't start at Zero to increase difference between bar
- Cut scale to reduce gap between data
- Represent missing data
- **3D you will never get the right number**

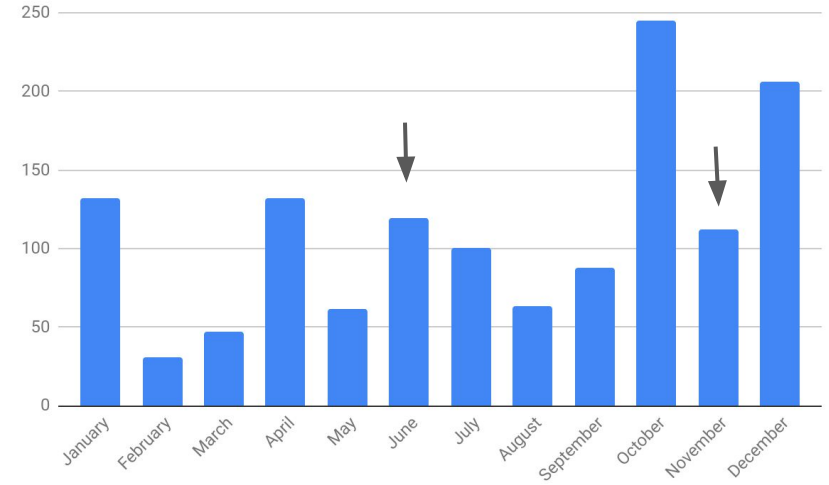
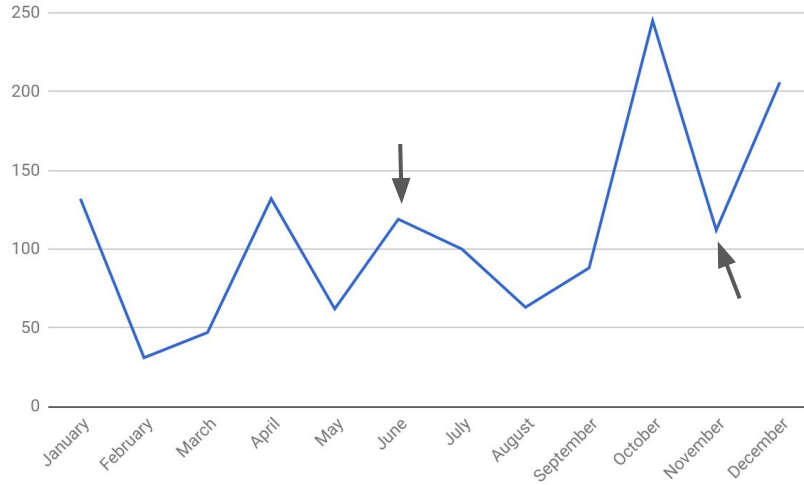


Line VS Bar

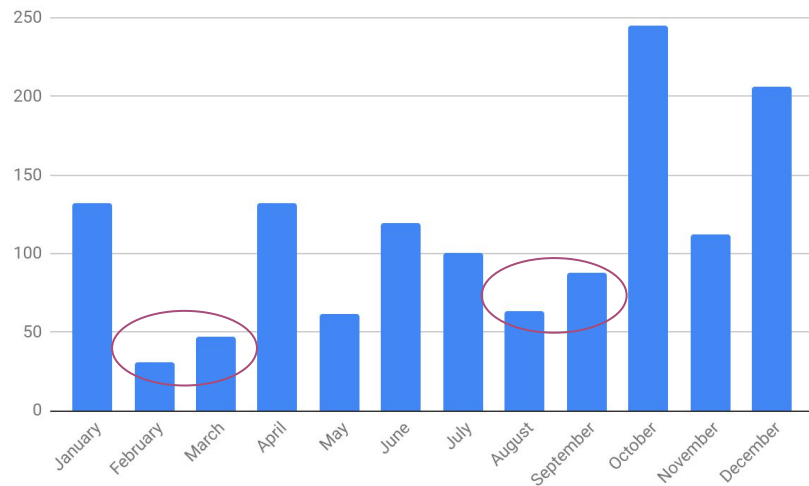
Line VS Bar



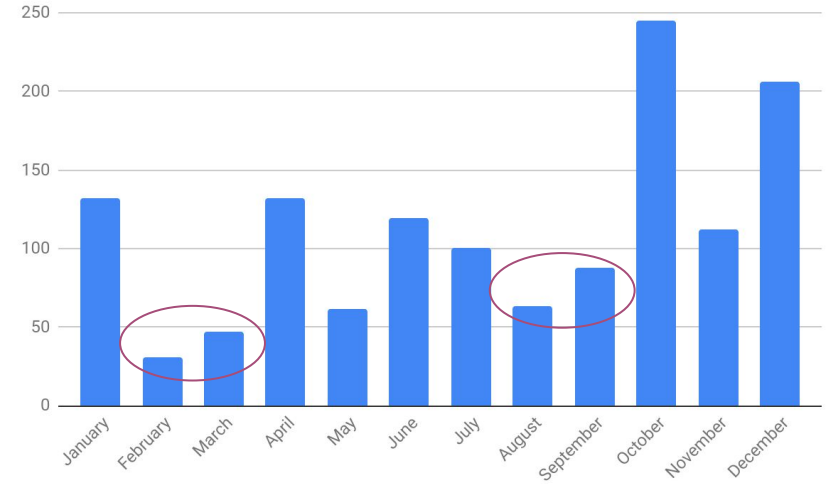
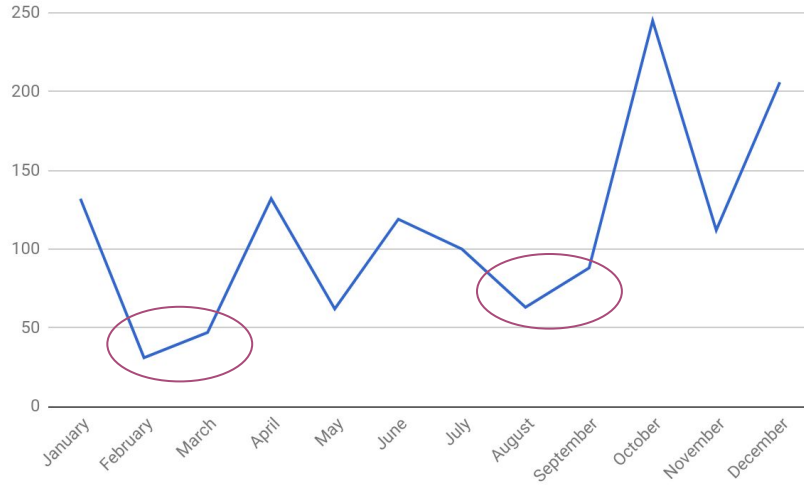
Line VS Bar



Line VS Bar



Line VS Bar

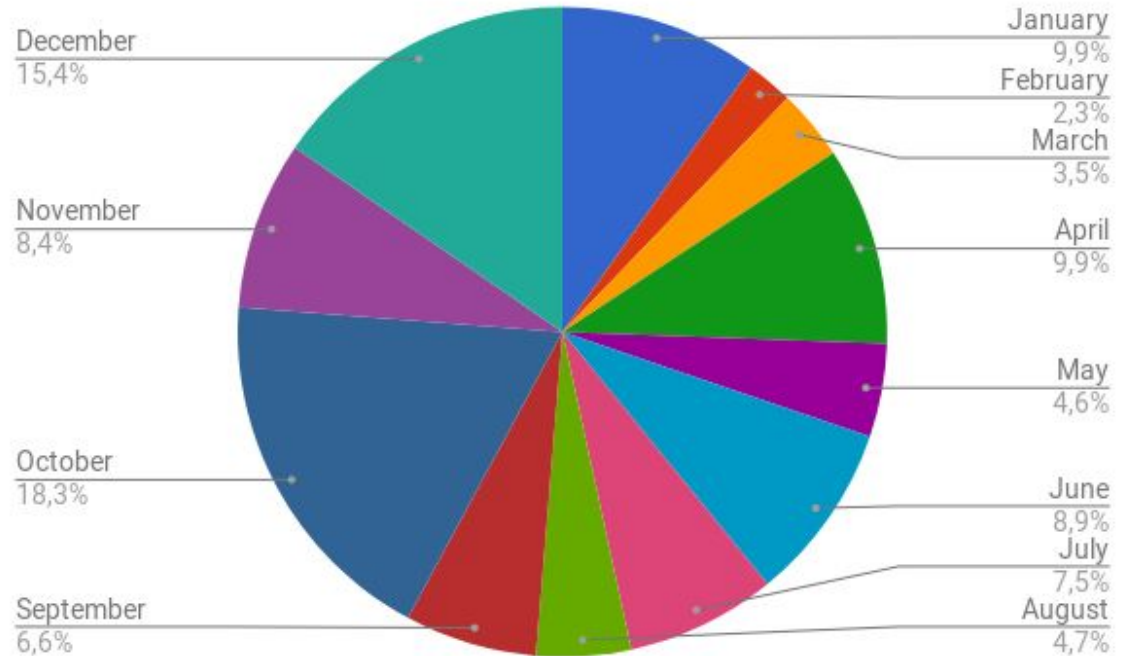


Pie Chart

Yes it's useful

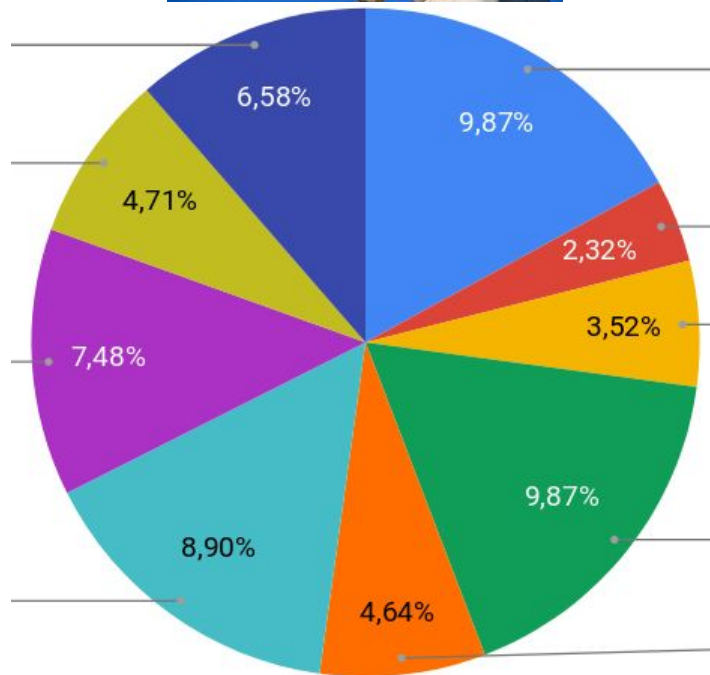
Pie Chart

- Composition
- Lot of value



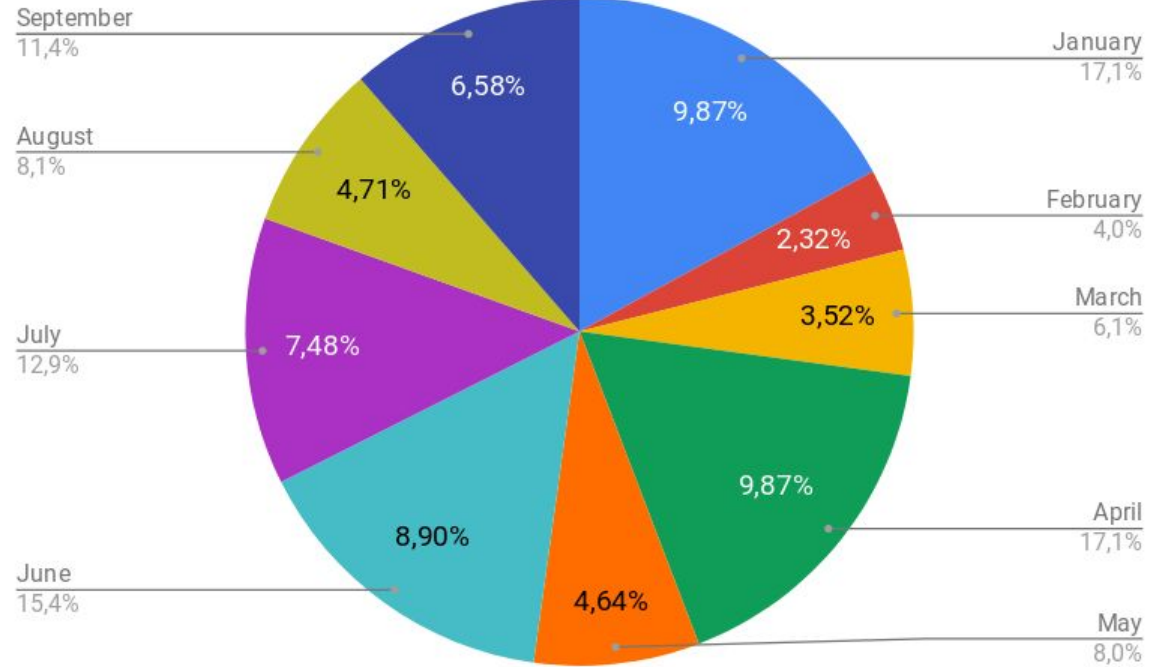
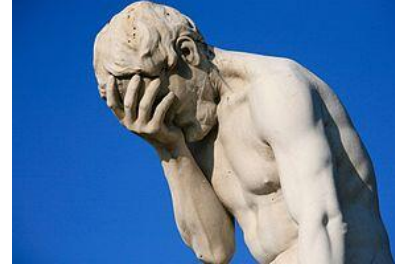
Pie Chart

- Should be 100%



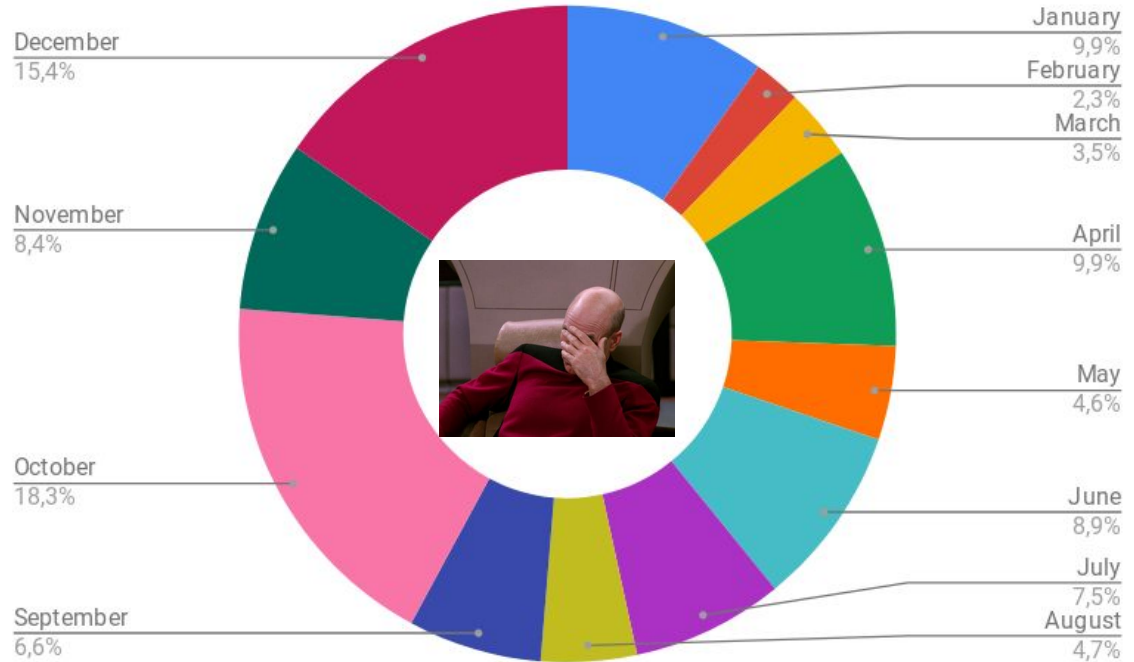
Pie Chart

- Should be 100%



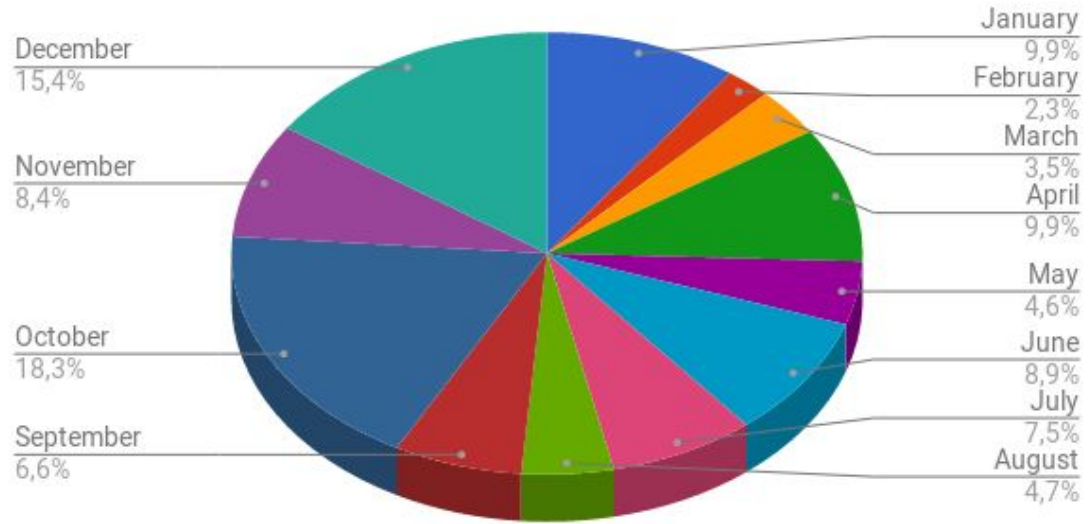
Pie Chart

- Should be 100%
- To determine percent people use:
 - outer arc (50%)
 - area (25%)
 - angle (25%)



Pie Chart

- Should be 100%
- To determine percent people use:
 - outer arc (50%)
 - area (25%)
 - angle (25%)
- **3D? oh god no, not again**

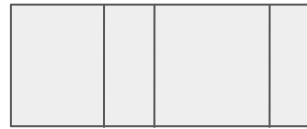


Dimension

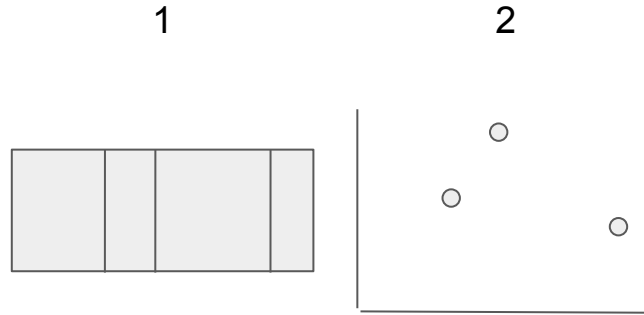
how many dimension can you plot without using 3D perspective?

Dimension

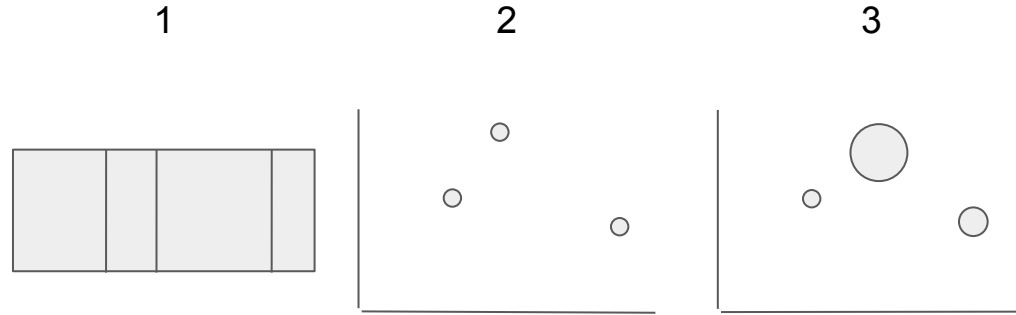
1



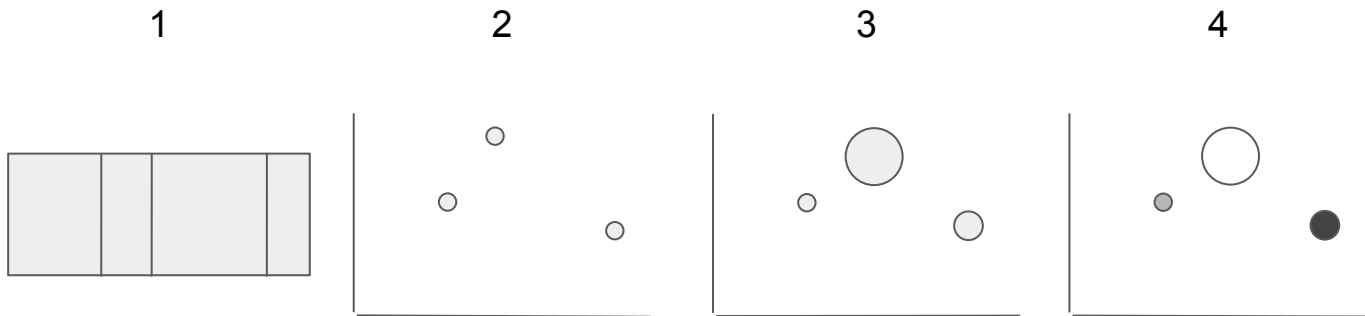
Dimension



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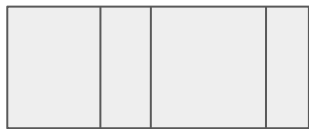


Dimension

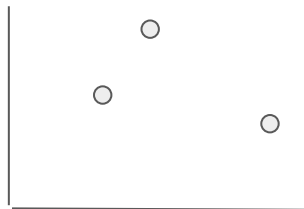


Dimension

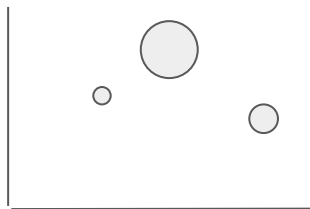
1



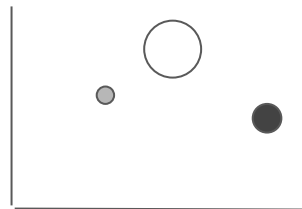
2



3



4



5?



Color

Hopefully someone else problem

Color

- 8% of men are color blind



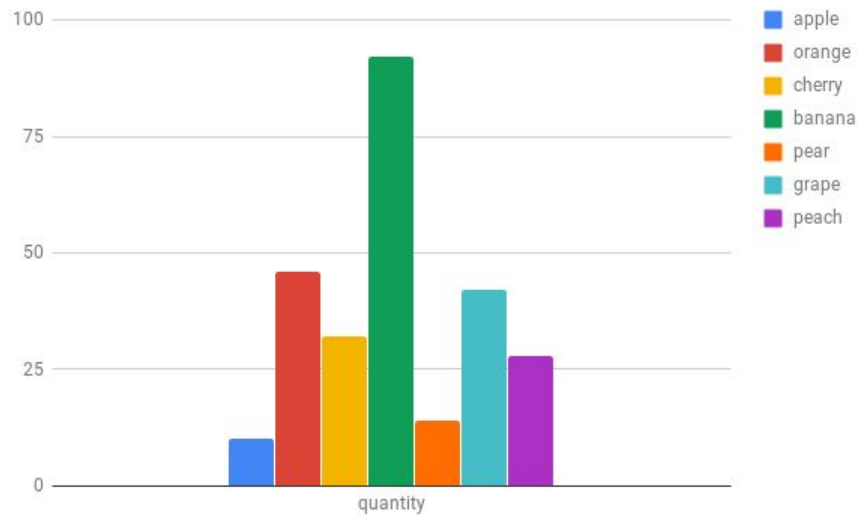
Color

- 8% of men are color blind
- **Respect existing convention**
 - no data = grey



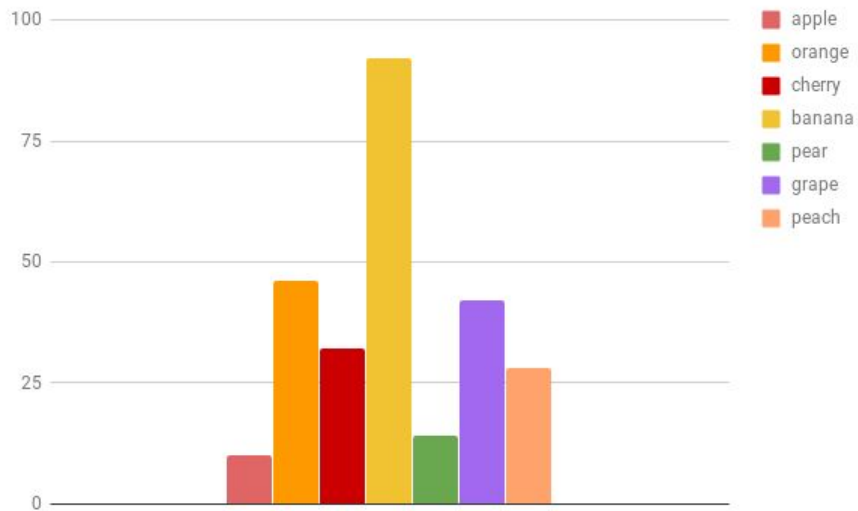
Color

- 8% of men are color blind
- **Respect existing convention**
 - no data = grey
 - banana = yellow



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- 8% of men are color blind
- **Respect existing convention**
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Thank You

Do your worst #WTFDataViz