

Graph, Diagram  $\rightarrow$  should be persuasive, clear and interesting.

Data visualization is... art and science.

$\downarrow$   
in effective  
way...

$\downarrow$   
should deliver accurate  
information.

## Chapter 1

Readable Data  $\rightarrow$  Visible Data.

aesthetics (시각적 요소)

- Position, Shape, Size, Color...

Types of Data • Continuous Data • Discrete Data.

• Quantitative

• Qualitative  $\rightarrow$  factor, level

Ex) Dog, Cat, Fish...

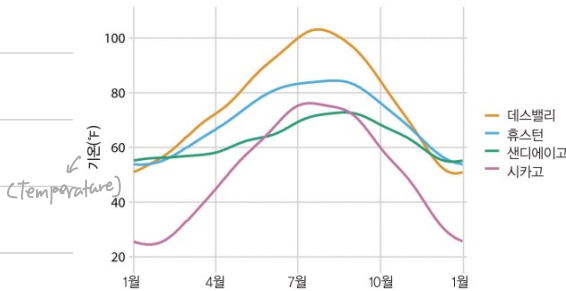
Ex) Good, Better, Best...

Month	Day	Region	Observatory	Temperature
1	1	Chicago	USW00014819	25.6
1	1	San Diego	USW00093107	55.2
1	2	Houston	USW00012918	53.9
$\downarrow$ Ordered factor	$\downarrow$ Ordered factor	$\downarrow$ Unordered factor	$\downarrow$ unordered factor	$\downarrow$ Continuous Data.

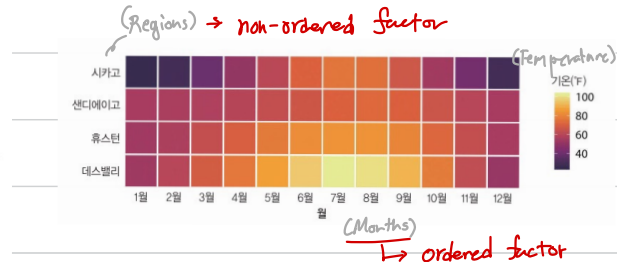
Data → visualize...

↓  
should think about 'Scale'

\* One feature<sup>of data.</sup> must correspond with  
'one' visual feature.



temperature → y axis  
Regions → Color



Region → y axis

Temperature → Color

⇒ Both of Position scale contains

non-continuous scale. → discrete.

↓  
use fixed interval in the graph.

ordered factor → follow order

non-ordered...

in this case, put colder places (chicago)  
on the top to make better color  
gradation.

blue  
↓  
Red