

Graphs, Diagram \rightarrow should be persuasive, clear and interesting.

Data visualization is... art and science.

\swarrow \searrow
in effective way... should deliver accurate information.

Chapter 1

Readable Data \longrightarrow Visible Data.

Aesthetics (1/3, 2/3)

- Position, Shape, Size, Color...

Types of Data • Continuous Data • Discrete Data.

• Quantitative

• Qualitative \rightarrow factor, level

Ex)

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 \downarrow \downarrow \downarrow \downarrow
Ordered factor Ordered factor Unordered factor unordered factor Continuous Data.

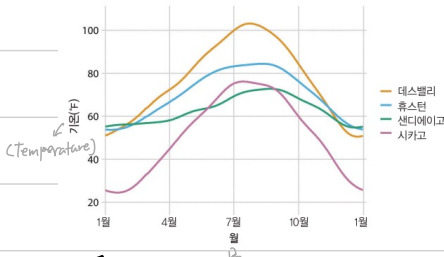
Ex) Dog, Cat, fish...

Ex) Good, Better, Best...

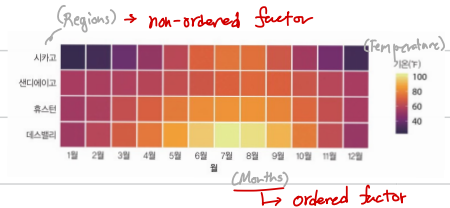
Data → visualize ...

↓
Should think about 'Scale'

* One feature^{of data.} must correspond with
'one' visual feature.



temperature → y axis
Regions → Color



Region → y axis

Temperature → Color

Both of x, y axis 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