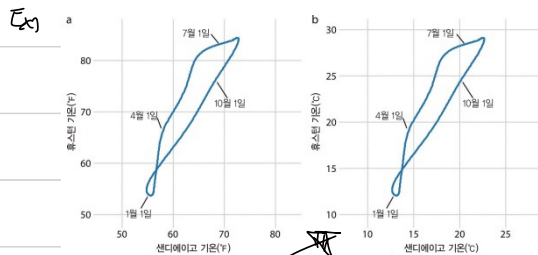


Chapter 3 Position scale (Coordinate & axes)

Control 'Aspect ratio' \rightarrow If there are something to emphasise.

If there 'Same units' in x, y axes.

interval should be same (Square shape)



\rightarrow If units are changed, graph will be same.
(Linear transformation)

fixed interval Ex $\frac{1}{2} \quad 4 \quad 6 \quad \dots \Rightarrow$ is called 'Linear'

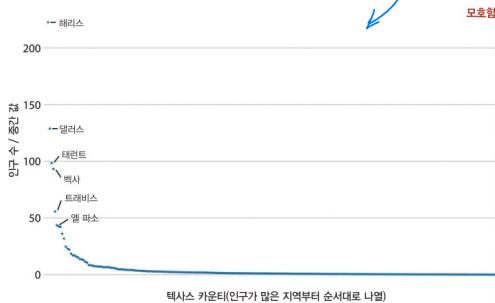
But sometime 'Nonlinear' is more useful.

The most common 'Non-Linear' \Rightarrow Logarithmic Scale / Log Scale.



\hookrightarrow Like this, the value obtained by multiplication and division is good form to be expressed by Log scale.

Linear scale Graph



Squared root scale → good for squared value data such as
size of area.

Log scale → good for ratio type data.

→ Example)

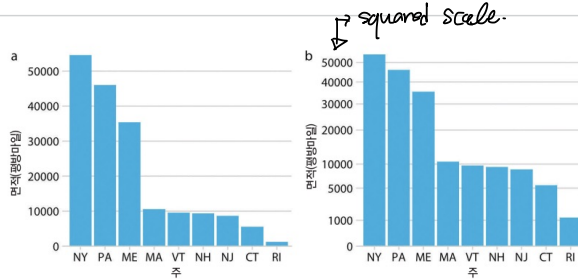


그림 3-8 미국 북동부 주들의 면적. (a) 면적을 선형 스케일에 표시했다. (b) 면적을 제곱근 스케일에 표시했다. (자료 출처: 구글)