## Transformations
- converting raw score to %

Adding only changes the mean by the constant
Multiplying changes mean and SD by constant and
    variance by constant$^2$
Divide and subtract are similar


## Z-scores
- # of SD above or below mean
$$z_i = (x_i - \mu)/\sigma$$


## Normal Distribution
- bell shaped
- symmetric about mean
    - mean = mode = median
- tails extend ± infinity
- can be described by equation

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} \cdot e^{-(x-\mu)^2/2\sigma^2}$$