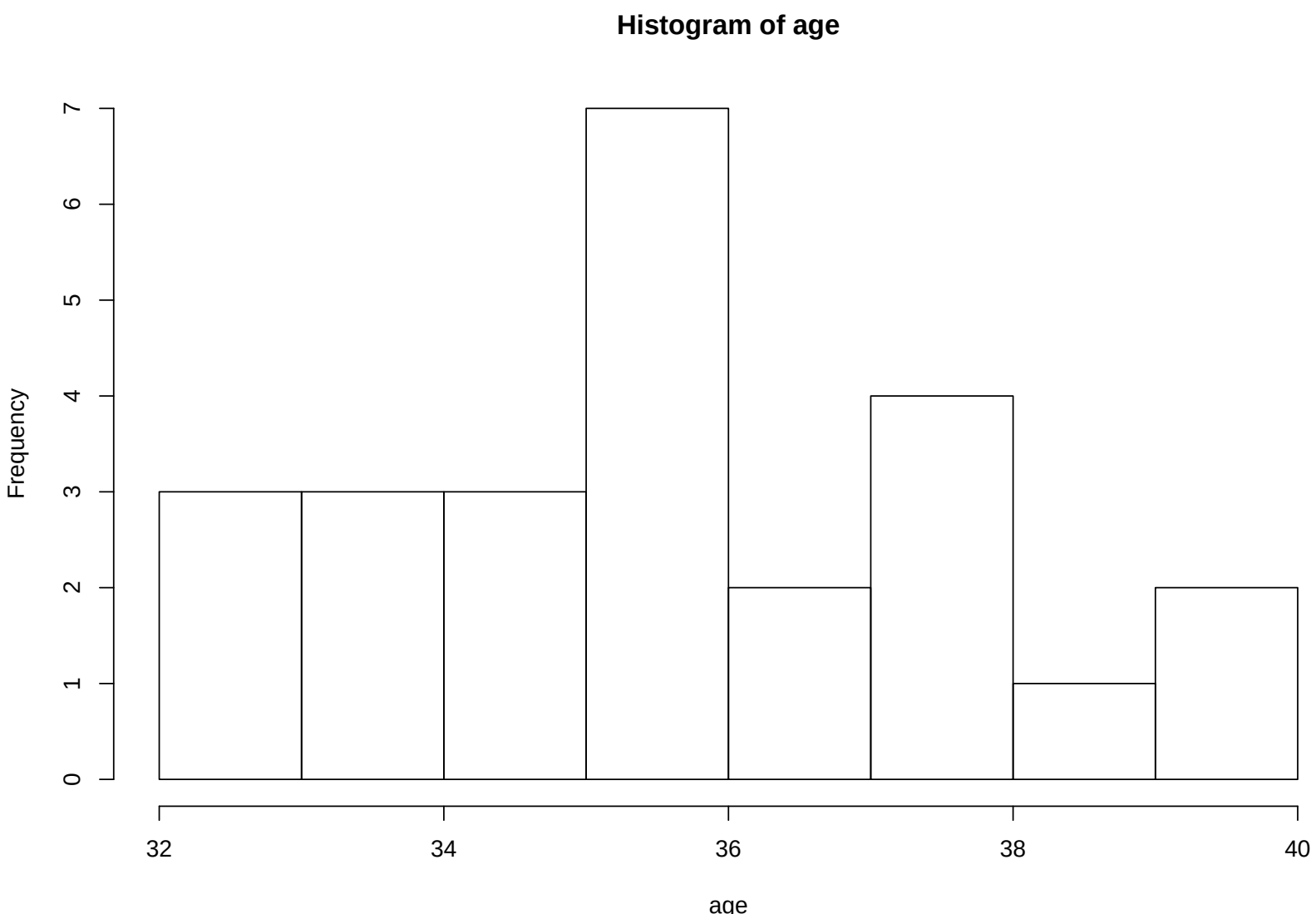
Descriptive statistics

Descriptive statistics

Guess my age

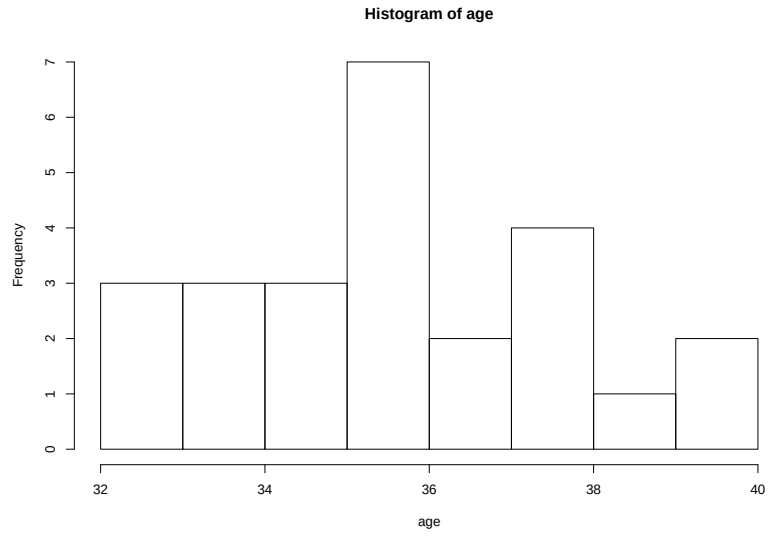
Graph your estimates

```
hist(age)
```



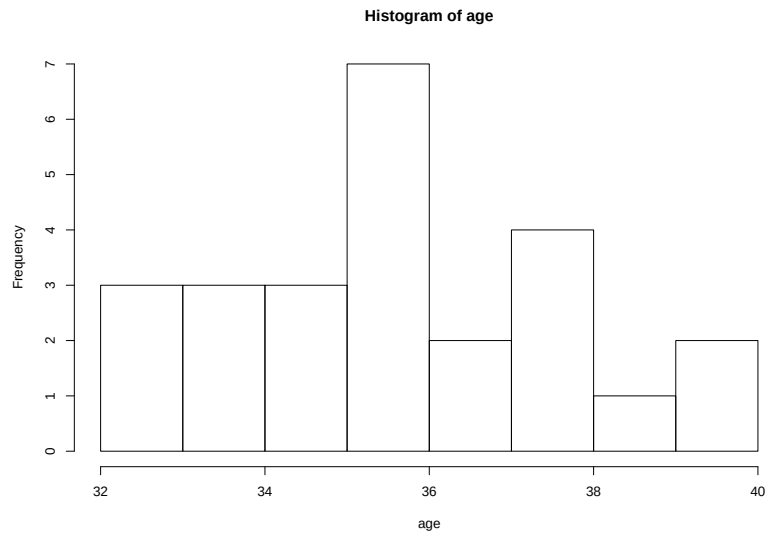
Summarise that distribution

- **Central tendency / location**



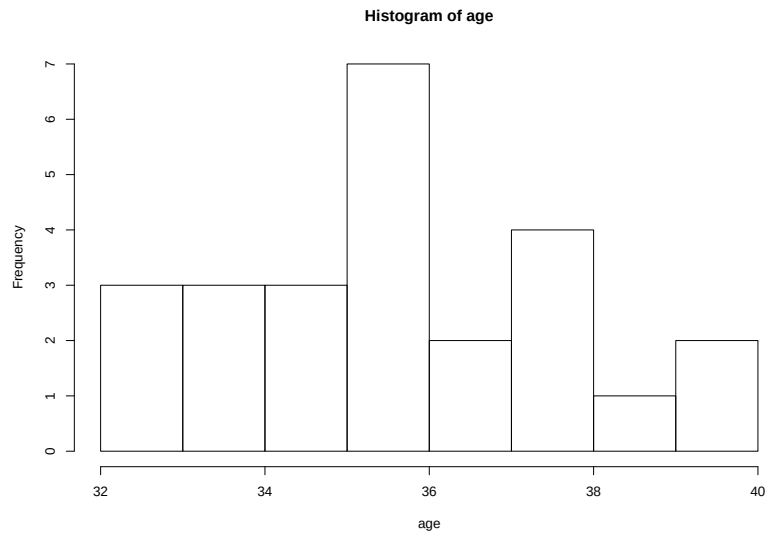
Summarise that distribution

- **Central tendency / location**
  - mean



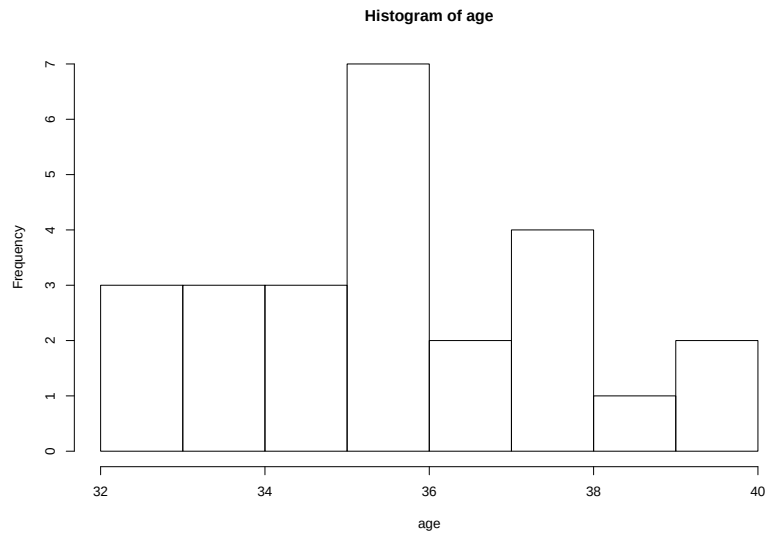
Summarise that distribution

- **Central tendency / location**
  - mean
  - median



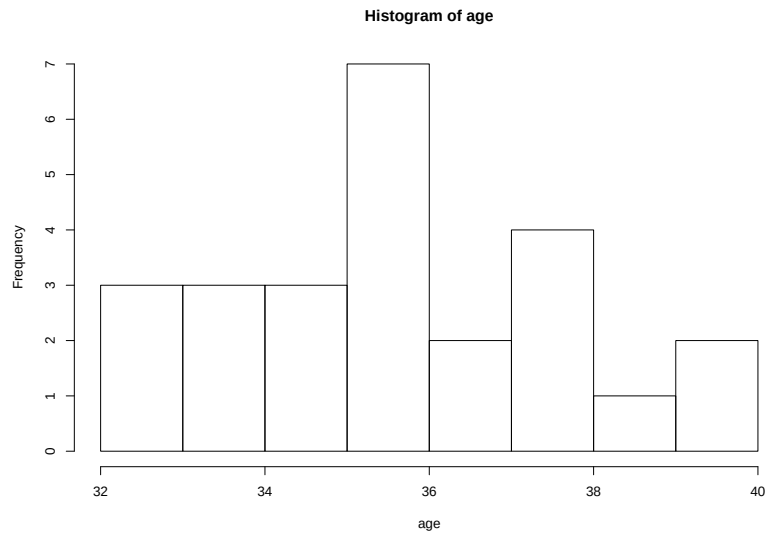
Summarise that distribution

- **Central tendency / location**
  - mean
  - median
  - mode



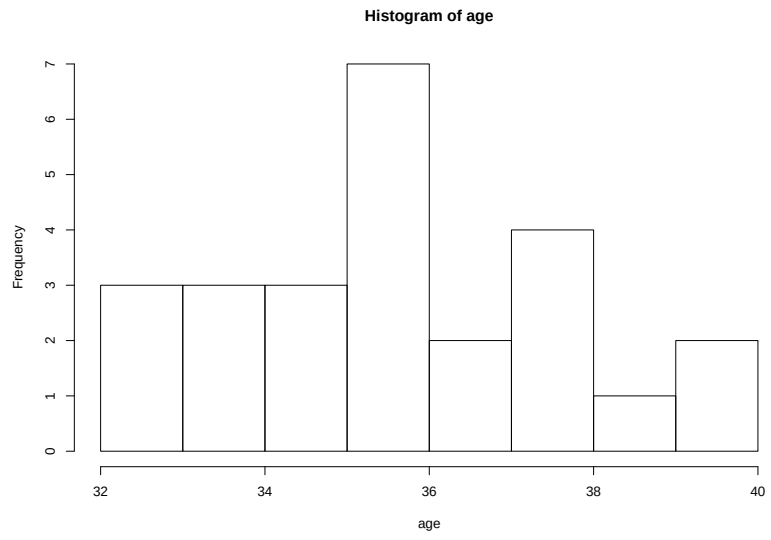
Summarise that distribution

- **Central tendency / location**
  - mean
  - median
  - mode
- **Variation / Spread**



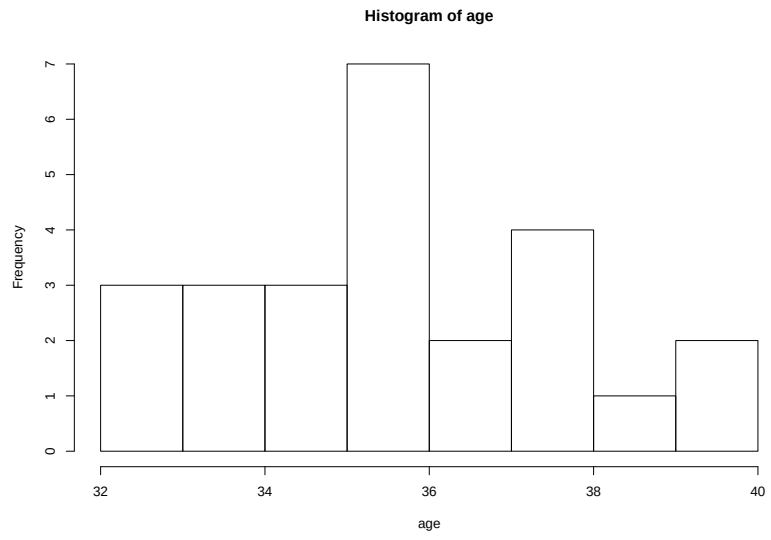
Summarise that distribution

- **Central tendency / location**
  - mean
  - median
  - mode
- **Variation / Spread**
  - min, max, range



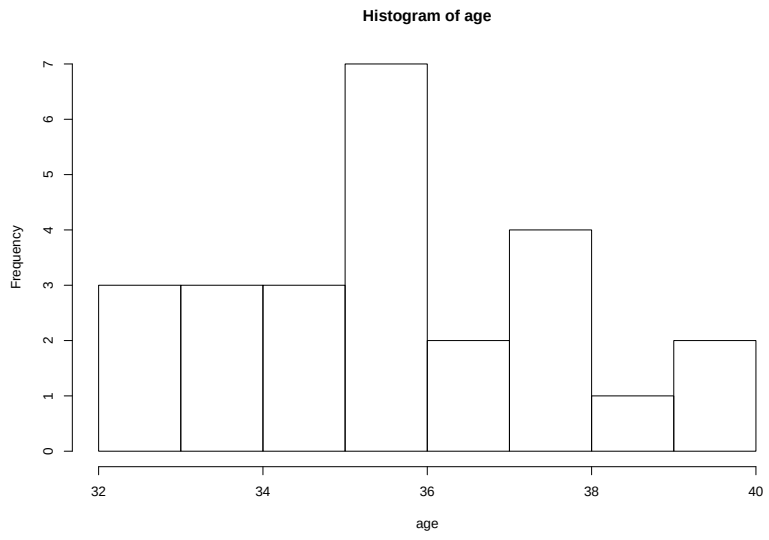
Summarise that distribution

- **Central tendency / location**
  - mean
  - median
  - mode
- **Variation / Spread**
  - min, max, range
  - quantiles



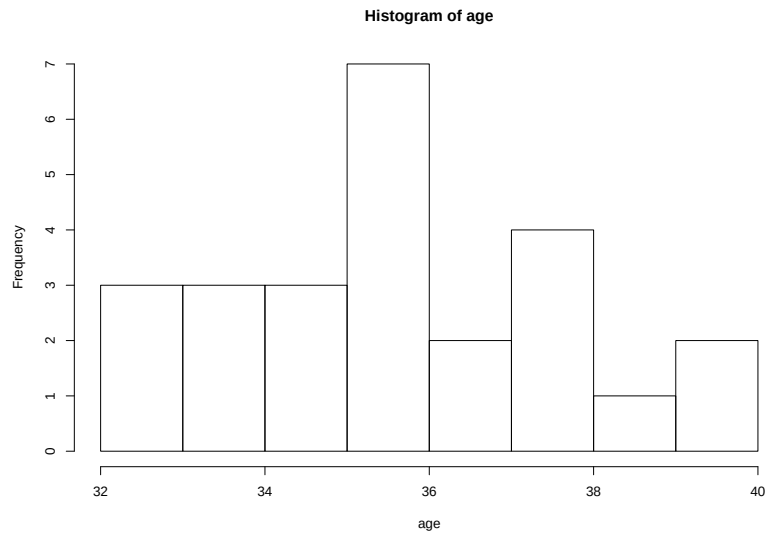
Summarise that distribution

- **Central tendency / location**
  - mean
  - median
  - mode
- **Variation / Spread**
  - min, max, range
  - quantiles
  - standard deviation



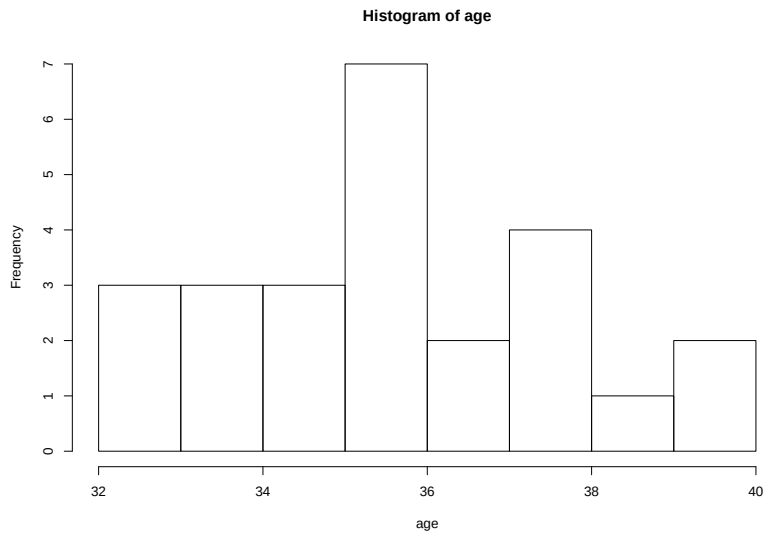
Summarise that distribution

- **Central tendency / location**
  - mean
  - median
  - mode
- **Variation / Spread**
  - min, max, range
  - quantiles
  - standard deviation
  - standard error



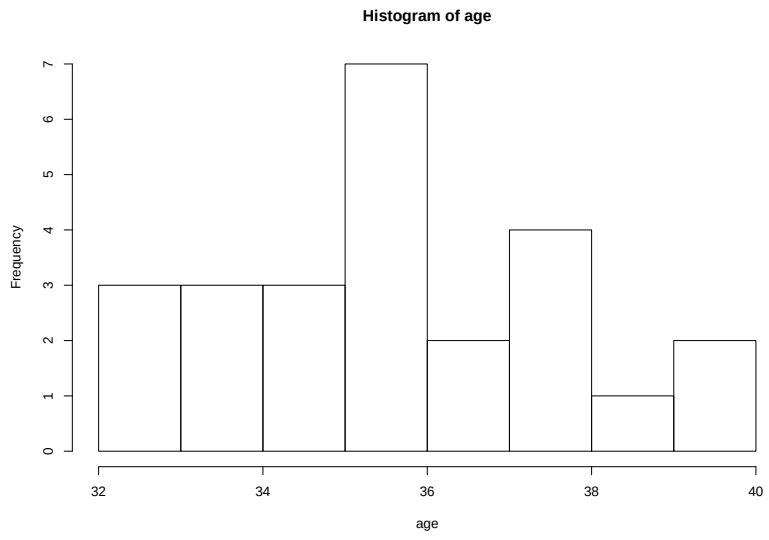
Summarise that distribution

- **Central tendency / location**
  - mean
  - median
  - mode
- **Variation / Spread**
  - min, max, range
  - quantiles
  - standard deviation
  - standard error
  - coefficient of variation



Summarise that distribution

- **Central tendency / location**
  - mean
  - median
  - mode
- **Variation / Spread**
  - min, max, range
  - quantiles
  - standard deviation
  - standard error
  - coefficient of variation
  - confidence intervals



In a Normal distribution

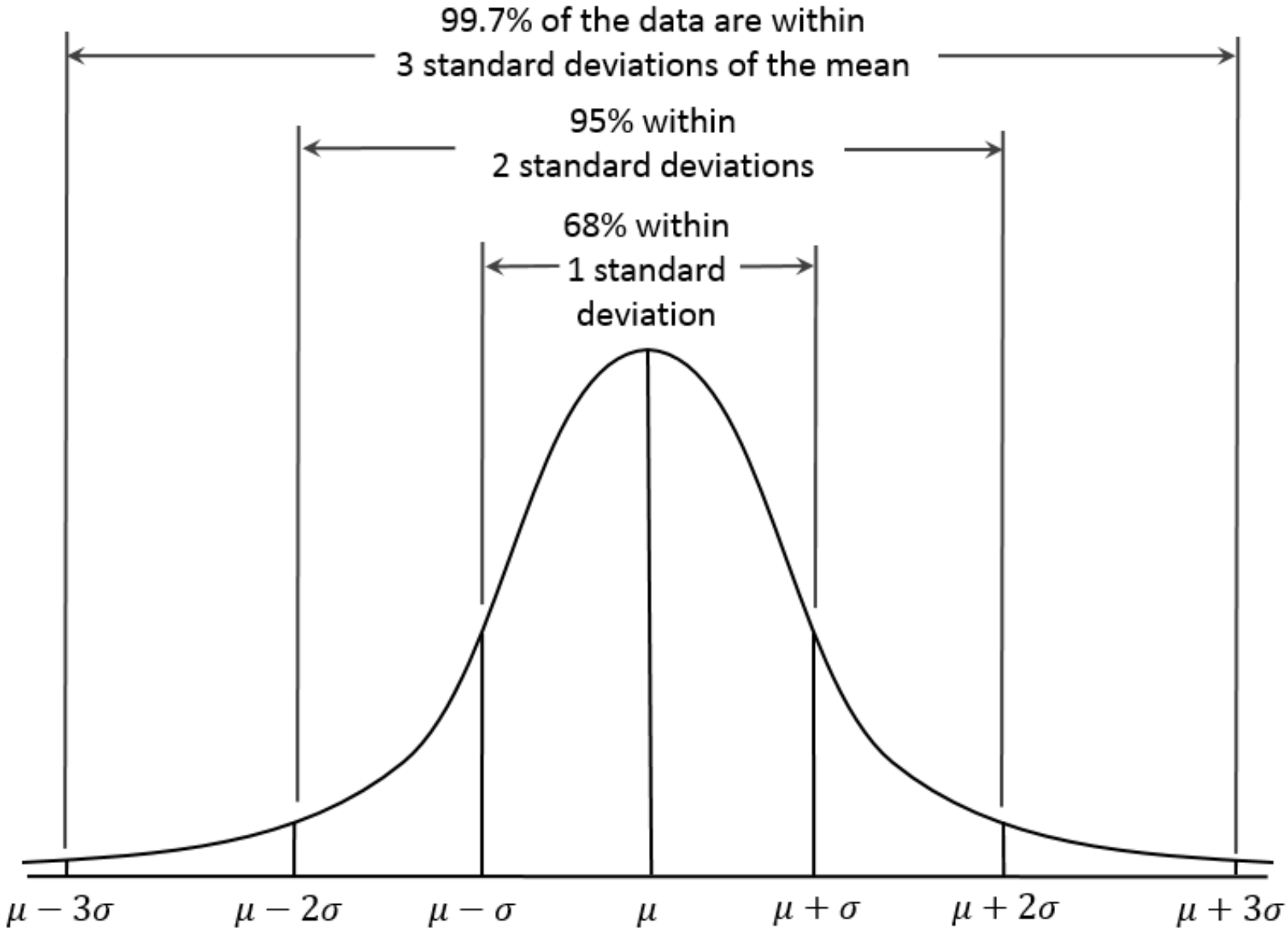


Figure 1:

What statistical descriptors are best? (and why)

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