

How Do We Measure Reliability?

Reliability = $\frac{\text{\# of actions that achieve the intended result}}{\text{Total \# of actions taken}}$

- Reliability is expressed as an order of magnitude.
- Unstable process
 - More than 1-2 defects per 10 attempts
- 10^{-1}
 - 1-2 defects per 10 attempts
- 10^{-2}
 - 1-2 defects per 100 attempts
- 10^{-3}
 - 1-2 defects per 1000
- 10^{-4}
 - 1-2 defects per 10,000
- 10^{-5}
 - 1-2 defects per 100,000
- 10^{-6}
 - 1-2 defects per 1,000,000
- And so on...