

## power analysis

- determine the prob for both hyp (No software, p)
- get a dist. (under null and alt)
  - test stat (pop proportion and or the number  $X$  <- easier because we just count )
  - always binom
  - null and alt will hae same nbut different p
  - peak likely (mode)
  - mean expected
  - lower tail is the left side

80% means it is worth our time to investigate based on a fixed sample size - if it does not fit in this value, then we will see if we need a larger sample