

GOODNESS OF FIT

(1 row/column of
observed COUNTS)

- One random sample...
- Expected counts ≥ 5

df = (# categories - 1)

H_0 : the distribution of
proportions is [as
expected]
(use context!)

H_A : the distribution of
proportions is not [as
expected]

Use LISTS:

Observed counts: L1
Expected COUNTS: L2

HOMOGENEITY

(2-way table,
2 or more samples,
compare the distributions)

- INDEPENDENT
random samples of...
- Expected counts ≥ 5

df = (rows - 1)(columns - 1)

H_0 : the distributions of
proportions are the
same for [the groups...]
(can be 2 or more!)

H_A : the distributions of
proportions are
different for [the
groups...]

Use Matrices:

Observed counts in [A]

(Calculator will give you expected counts)

INDEPENDENCE

(2-way table, ONE random sample,
association between
variables?)

- One random sample of...
- Expected counts ≥ 5

df = (rows - 1)(columns - 1)

H_0 : There is NO association
between [the two
variables]

H_A : There IS an association
between [the two
variables]