chi² test

- **Used to test strength of association between <u>qualitative</u> variables**
- **Used for categorical data**

Accept Hypothesis ← | → Reject Hypothesis

Percentage Points of the Chi-Square Distribution

Degrees of Freedom	Probability of a larger value of x^2								
	0.99	0.95	0.90	0.75	0.50	0.25	0.10	0.05	0.01
1	0.000	0.004	0.016	0.102	0.455	1.32	2.71	3.84	6.63
2	0.020	0.103	0.211	0.575	1.386	2.77	4.61	5.99	9.21
3	0.115	0.352	0.584	1.212	2.366	4.11	6.25	7.81	11.34
4	0.297	0.711	1.064	1.923	3.357	5.39	7.78	9.49	13.28
5	0.554	1.145	1.610	2.675	4.351	6.63	9.24	11.07	15.09

Requirements

- Data should be in form of frequency
- Total number of observed must exceed 20
- Expected frequency in one category or in any cell must be >5 (When 1 of the cells have <5 in observed yats correction) or if (When 1 of the cells have <5 in expected fischer exact)