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# chi<sup>2</sup> test

- Used to test strength of association between qualitative variables
- Used for categorical data

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Accept Hypothesis ←      → Reject Hypothesis

**Percentage Points of the Chi-Square Distribution**

Degrees of Freedom	Probability of a larger value of $\chi^2$								
	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	1.82	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	5.25	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

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# 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 yates correction) or if (When 1 of the cells have  $<5$  in expected fischer exact)

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