

Contingency table analysis

Contingency table: observed frequencies, O_{ij}

	1	2	3	Total
1	8	6	11	25
2	2	2	17	21
Total	10	8	28	46

Expected values per cell, E_{ij}

	1	2	3
1	5.4348	4.3478	15.2174
2	4.5652	3.6522	12.7826

Components of Pearson chi-square stat. per cell, $(O_{ij} - E_{ij})^2 / E_{ij}$

	1	2	3
1	1.2108	0.6278	1.1688
2	1.4414	0.7474	1.3915

Sqrt(components of chi-square per cell), $O_{ij} - E_{ij} / \sqrt{E_{ij}}$

	1	2	3
1	1.1004	0.7923	-1.0811
2	-1.2006	-0.8645	1.1796

Table \bar{Q}
ready for
CA or CCA

H_0 : independence of the two nominal variables

Pearson chi-square statistic = 6.58770, p-value = 0.03711