

# Measure of Association in Contingency Table

(nominal)

① Contingency Coefficient

$\chi^2 = \text{chi-square}$   
검정통계량

$$0 \leq C = \sqrt{\frac{\chi^2 / n}{\chi^2 / n + 1}} \leq 1$$

(i) 크기  $\frac{\chi^2 / n}{\chi^2 / n + 1}$ 의 크기

(ii)  $\chi^2$ 의 크기에 비례하여 증가함

② Cramer's V

$$V = \sqrt{\frac{\chi^2 / n}{t}}$$

$$t = \min(r-1, c-1)$$

$$n = \text{sample size}$$

(ordinal)

③

Kendall's  $\tau$

Spearman Rank Coefficient

Somer's

Gamma