

Trump's Top 10,000 Tweets Since He Started Running for President, by Retweet (WIP)

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$$\rho_{X,Y} = \frac{\mathbb{E}[XY] - \mathbb{E}[X]\mathbb{E}[Y]}{\sqrt{\mathbb{E}[X^2] - (\mathbb{E}[X])^2}\sqrt{\mathbb{E}[Y^2] - (\mathbb{E}[Y])^2}} \quad (1)$$

$$= \frac{\mathbb{E}[(X - \mu_X)(Y - \mu_Y)]}{\sigma_X \sigma_Y} \quad (2)$$

$$= \frac{\text{cov}(X, Y)}{\sigma_X \sigma_Y} \quad (3)$$

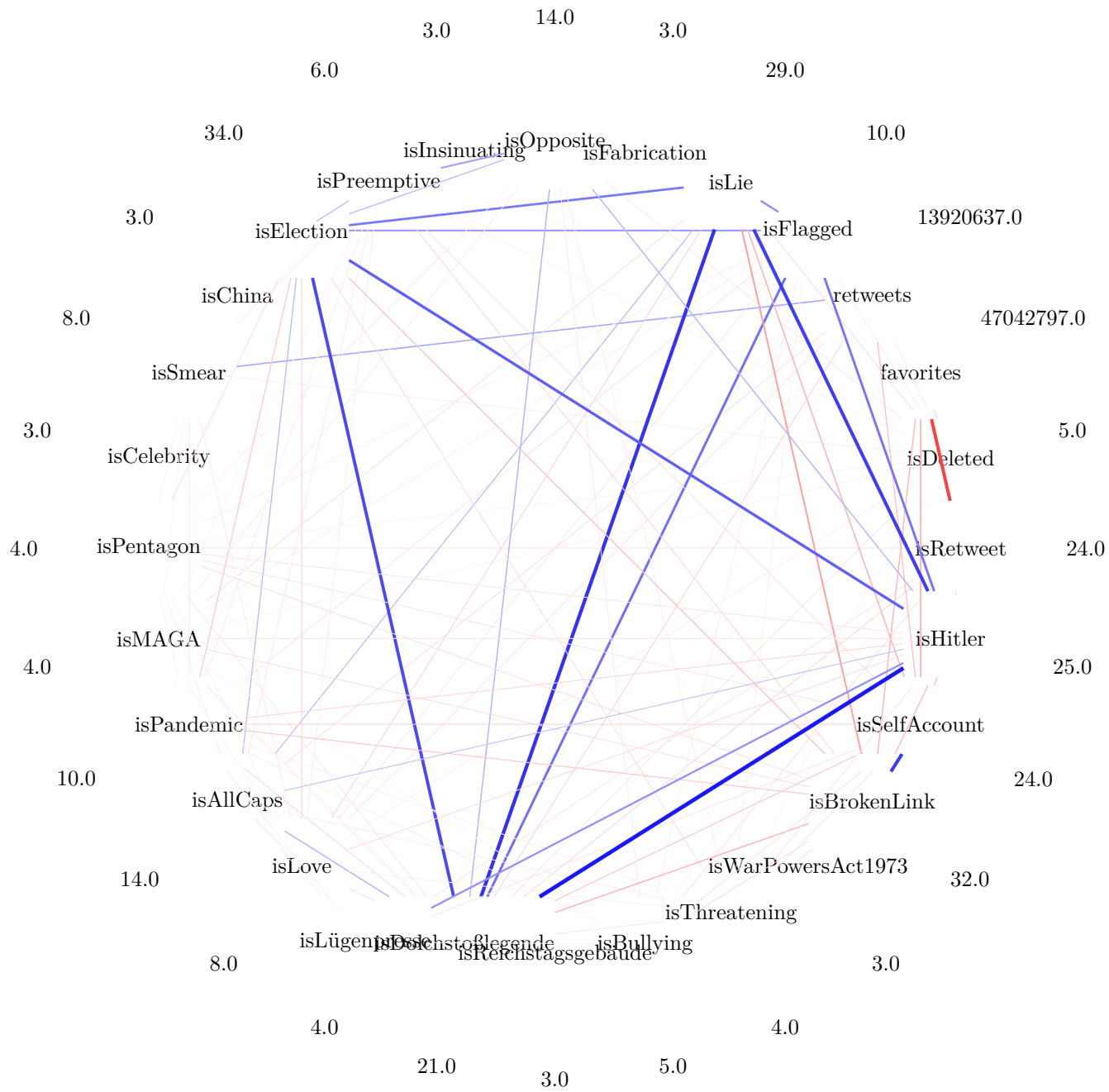


Figure 1: Graph visualization of Pearson's correlation coefficient with sample counts.

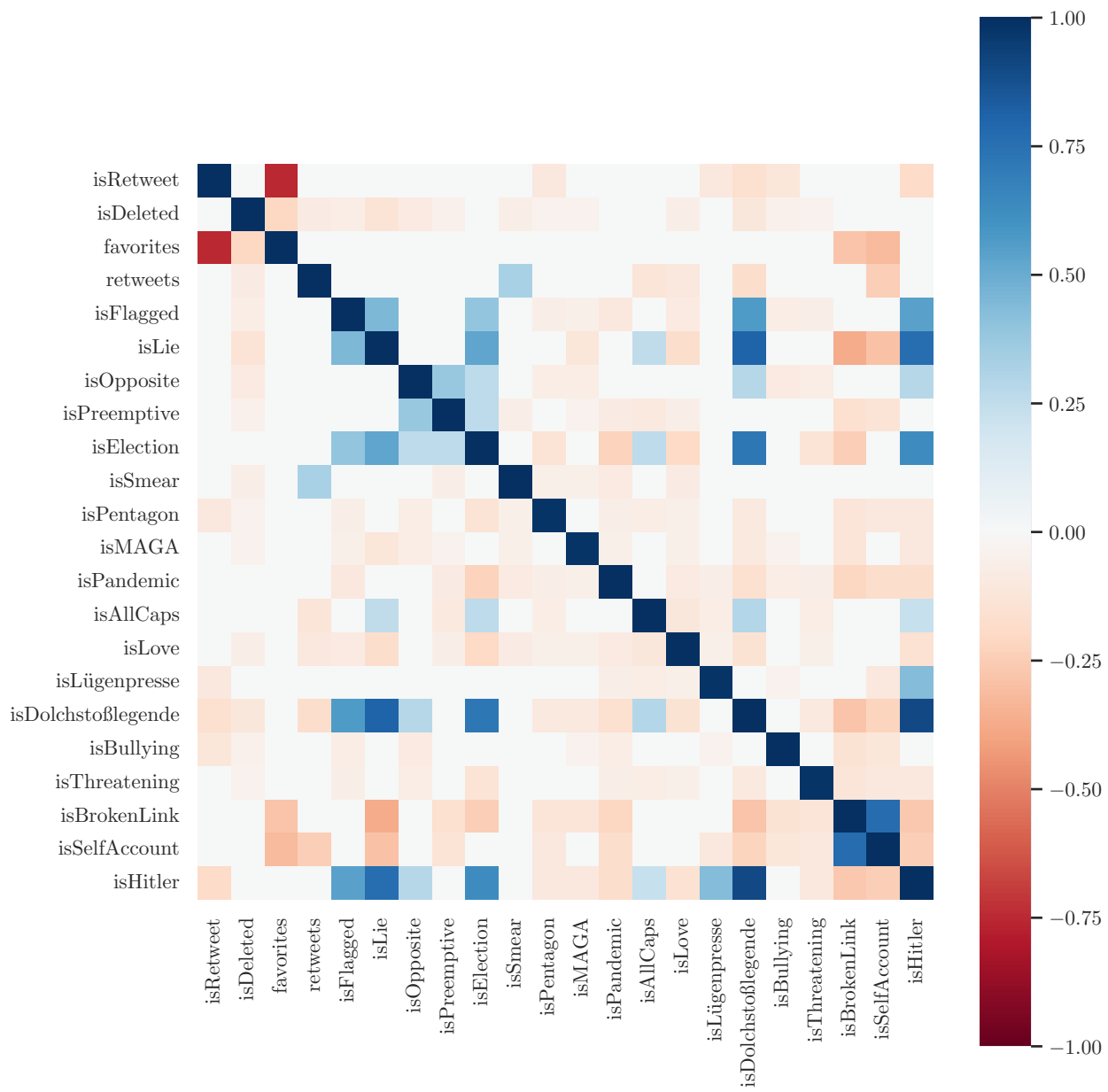


Figure 2: Matrix visualization of Pearson's correlation coefficient.