

# Semantic Arithmetic: Mathematical Operations on Meaning

## Gender Relationship

$$\begin{array}{c} \text{King} \\ - \\ \text{Man} \\ + \\ \text{Woman} \\ = \\ \text{Queen} \end{array}$$

## Capital Cities

$$\begin{array}{c} \text{Paris} \\ - \\ \text{France} \\ + \\ \text{Italy} \\ = \\ \text{Rome} \end{array}$$

## Verb Conjugation

$$\begin{array}{c} \text{Walking} \\ - \\ \text{Walk} \\ + \\ \text{Swim} \\ = \\ \text{Swimming} \end{array}$$

## Comparative Forms

$$\begin{array}{c} \text{Bigger} \\ - \\ \text{Big} \\ + \\ \text{Small} \\ = \\ \text{Smaller} \end{array}$$