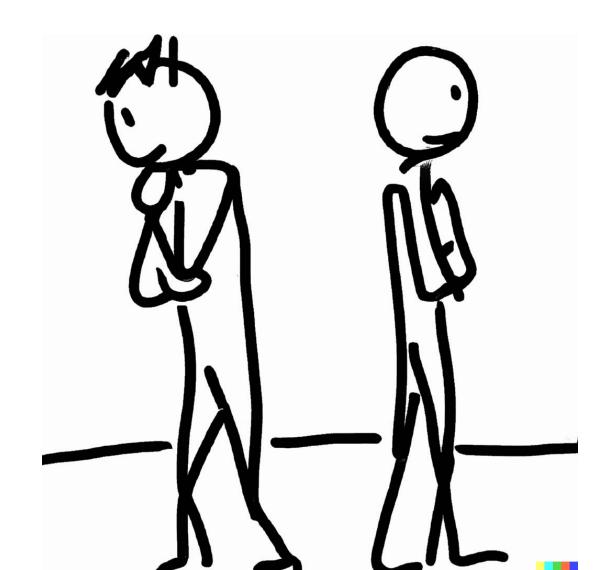
Notes on Behavioural Economics

Jason Collins



E[X]: the probability-weighted sum of the potential outcomes

Probability

Outcome

$$E[X] = 0.5 \times 1 + 0.5 \times -1 = 0$$

$$E[X] = p_1 x_1 + p_2 x_2 + \dots + p_n x_n$$

$$=\sum_{i=1}^n p_i x_i$$

$$E[X] = \sum_{i=1}^{n} p_i x_i$$

$$E[X] = \sum_{i=1}^{n} p_i x_i$$

= 0.5 × 10 + 0.5 × (-8)

$$E[X] = \sum_{i=1}^{n} p_i x_i$$
= 0.5 × 10 + 0.5 × (-8)
= \$1

$$E[X] = \sum_{i=1}^{n} p_i x_i$$

$$E[X] = \sum_{i=1}^{n} p_i x_i$$

= 0.6 × 10 + 0.4 × (-8)

$$E[X] = \sum_{i=1}^{n} p_i x_i$$
= 0.6 × 10 + 0.4 × (-8)
= \$2.80

$$E[X] = \sum_{i=1}^{n} p_i x_i$$

$$E[X] = \sum_{i=1}^{n} p_i x_i$$

= 0.5 \times 0.5W + 0.5 \times (-0.4W)

$$E[X] = \sum_{i=1}^{n} p_i x_i$$

$$= 0.5 \times 0.5W + 0.5 \times (-0.4W)$$

$$= 0.05W$$