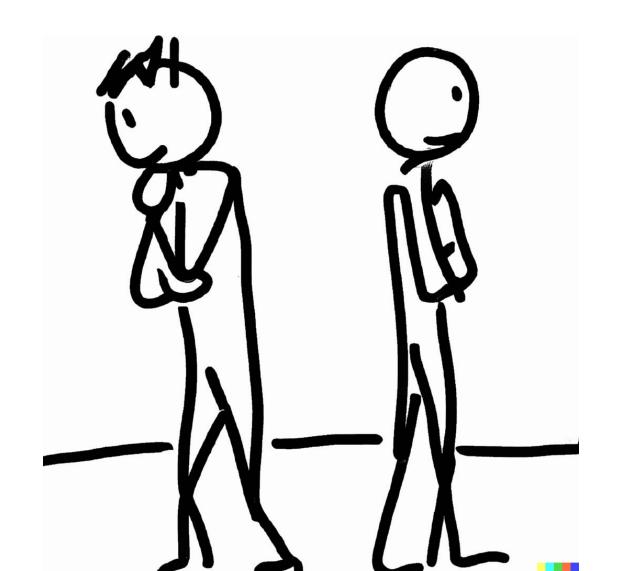
Prospect theory applications

Notes on Behavioural Economics

Jason Collins





Taxi driver behaviour on rainy days

"Narrow bracketing"

How much should I work today?

How much should I work each day this week?

Taxi driver behaviour on rainy days

Farber (2005): The decision to stop work was primarily a function of how many hours had been worked up to that point in the day.

Farber (2008): a model of labour supply with reference-dependent targets has a better fit than a standard neoclassical model.

Farber (2015): taxi drivers drive more when they can earn more.

Taxi driver behaviour on rainy days

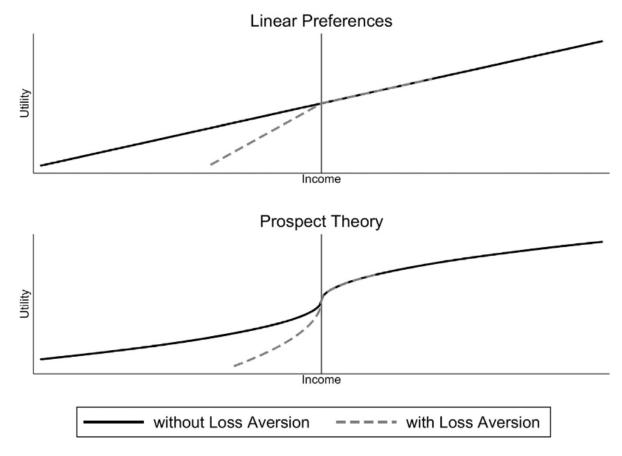


Fig. 1. Reference dependence utility function examples with and without loss aversion. *Note*: Here the reference point is denoted by the vertical line. The inclusion of loss aversion increase the marginal utility of income in the range of income below the reference point, referred to as the "loss region".

Martin (2017) "When to quit: Narrow bracketing and reference dependence in taxi drivers", Journal of Economic Behavior & Organization, 144, 166–187, https://doi.org/10.1016/j.jebo.2017.09.024

The disposition effect is the tendency for investors to sell stocks that are in the gain domain relative to the purchase price and to hold stocks that are in the loss domain.

[C]onsider an investor who purchased a stock one month ago for \$50 and who finds that the stock is now selling at \$40. The investor must now decide whether to realize the loss or hold the stock for one more period. To simplify the discussion, assume that there are no taxes or transaction costs. In addition, suppose that one of two equiprobable outcomes will emerge during the coming period: either the stock will increase in price by \$10 or decrease in price by \$10. According to prospect theory, our investor frames his choice as a choice between the following two lotteries:

- A. Sell the stock now, thereby realizing what had been a \$10 "paper loss".
- B. Hold the stock for one more period, given 50-50 odds between losing an additional \$10 or "breaking even."

