



## Outcome Variables

### 1 Why

TODO

### 2 Definition

An *outcome variable* is a function from a set of outcomes to a second set. We call the second set the set of *values* of the random variable.

### 3 Notation

Let  $p$  be a probability mass function over the set of outcomes  $A$ . Let  $V$  be a non-empty set. Let  $f : A \rightarrow V$ . Then  $f$  is an outcome variable.