



Figure 1: A simple model.

mod:syn:rel:
fig:simple

syn.1 Relational Models

mod:syn:rel:
sec

Definition syn.1. A *model* for the basic modal language is a triple $\mathfrak{M} = \langle W, R, V \rangle$, where

1. W is a nonempty set of “worlds,”
2. R is a binary accessibility relation on W , and
3. V is a function assigning to each **propositional variable** p a set $V(p)$ of possible worlds.

The great advantage of relational semantics is that models can be represented by means of simple diagrams, such as the one in [Figure 1](#). Worlds are represented by nodes, and world w' is accessible from w precisely when there is an arrow from w to w' . Moreover, we write p next to a world precisely when $w \in V(p)$.

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Bibliography