0.1 Abstract Syntax

 $test \in memes \quad What$

0.2 Helping Functions

- $\mathcal{N}: n \to \mathbb{Q}$
- (2) $ancestors: Name_s \to Name_s^* \\ ancestors(s) = s \cup ancestors(s_{parent})$

0.3 Environments

$$(3) \hspace{1cm} sta \in Sta = Name_s \rightharpoonup (\underbrace{Rea^*}_{Reactions} \times \underbrace{Stmt}_{Transition} \times \underbrace{Var}_{Environment})$$

$$(4) \qquad fam \in Fam = Name_s \rightharpoonup (\underbrace{Names_{\varepsilon}}_{Parent} \times \underbrace{Names_{\varepsilon}}_{Child} \times \underbrace{Names_{\varepsilon}^*}_{Children})$$

- (5) $var \in Var = Name_v \rightharpoonup Loc$
- (6) $sto \in Sto = Loc \rightarrow Val$

0.4 Phase Transitions

$$teste \\ tester \\ test \\ john' = memes \\ john$$