The Curry-Howard correspondence

Haskell	Logic
type variables : a	proposition variables : p
types : Bool	propositions : "Socrates is a man"
function types : $a \rightarrow b$	implications (implies) : $p o q$
tuples : (a, b)	conjunctions (and) : $p \wedge q$
either: Either a b	disjunctions (or) : $p \lor q$
type inhabitation : $id :: a -> a$	truth : $\vDash p ightarrow p$

The type is the what. The value is the why.