What is naming?

Most languages provide a way to name and reuse stuff

Naming concepts

declaration introduce a new name

binding associate a name with a thing

reference use the name to stand for the bound thing

C/Java variables

int⊗; int ♡;

 $\underline{\mathbf{x}} = \underline{\mathsf{slow}}(42);$

 $\underline{\mathbf{y}} = \underline{\mathbf{x}} + \underline{\mathbf{x}} + \underline{\mathbf{x}};$

In Haskell:

Local variables

Type names

Function parameters

Semantics of naming 20 / 21