

# Equality in Idris

- Definitional equality,  $\equiv$ , for when terms are “obviously” equal
  - ▶ Used for type checking
- Propositional equality
  - ▶  $(=) : (x : A) \rightarrow (y : B) \rightarrow \text{Type where}$
  - ▶  $\text{refl} : \{A : \text{Type}\} \rightarrow \{x : A\} \rightarrow x = x$
- Transport
  - ▶  $\text{replace} : a = b \rightarrow P\ a \rightarrow P\ b$