













Declared inside a class

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- Scope depends on whether declared <u>public</u> or <u>private</u>
  Always accessible inside the class
- Accessible to clients outside the class if declared public
- Not accessible to clients if declared private
- Inside the class, local methods and instance variables can be referenced by their simple names
- Always use public or private in CSE142
  There are rules about what happens if you leave these off; we'll simplify our life by not dealing with them

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## Summary

 $\boldsymbol{\cdot}$  Scope – the region of code in which a declaration has an effect

## Class scope – instance variable, methods

Can be public (accessible outside the class) or private (only accessible inside)
 Can be masked by method parameters or local variables with the same name
 "this" -refers to the current object; use to access names with class scope

## Local scope – method parameters and local variables Scope is all or part of the method containing the declaration Can mask declarations in surrounding scopes (generally bad style, except in specific cases)

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