## **Module 3b: Compound Data**

CPSC 110

Peyton Seigo

## **Module 3b: Compound Data**

- Be able to identify domain information that should be represented as compound data.
- Be able to read and write define-struct definitions.
- Be able to design functions that consume and/or produce compound data.
- Be able to design world programs that use compound world state.

## **Notes**

- define-struct: defines four general definitions
  - Definitions:
    - \* the **struct** itself
    - \* constructor: make-<struct-name>
    - \* selector(s): <struct-name>-<field-name>
      - · A unique selector is created for each field name
    - \* **predicate**: <struct-name>?
  - (define <struct-name> (x y))
    - \* x and y have given this struct two field names
  - Define a <struct-name> struct using:
    - \* (define S1 (<struct-name> x y))
    - \* x and y set values for the field names

## **Terminology**

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