## **Lecture 24**

CPSC 110

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## **Abstract Fold Functions**

Creating a fold function from an existing mutually referential template

- Encapsulate and name fold-<Type>
  - @template <Type1> <Type2> ... <TypeN> encapsulated add-param
- 2. Write check-expects
- 3. Purpose
  - "produce the abstract fold function for <Type>
- 4. Signature
  - Assign type parameters to each function and argument used in your template. This makes writing the signature much easier.
  - @HtDF fold-<Type>

We do not need a stub.

## **Notes**

- For use-abstract-fn functions, we do not tag the types it consumes
  - i.e. for a fn with @signature Region -> Region that uses an abstract-fn, our template is just @template use-abstract-fn (assuming we don't have fn-composition or anything else)
- When filling in arguments for a fold function, ask yourself: "Is there a built-in function for what I want to do?"
  - If the answer is yes, use that function!
  - If the answer is no, write a local function to do it!

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