Eclipse, Java basics, and Sox
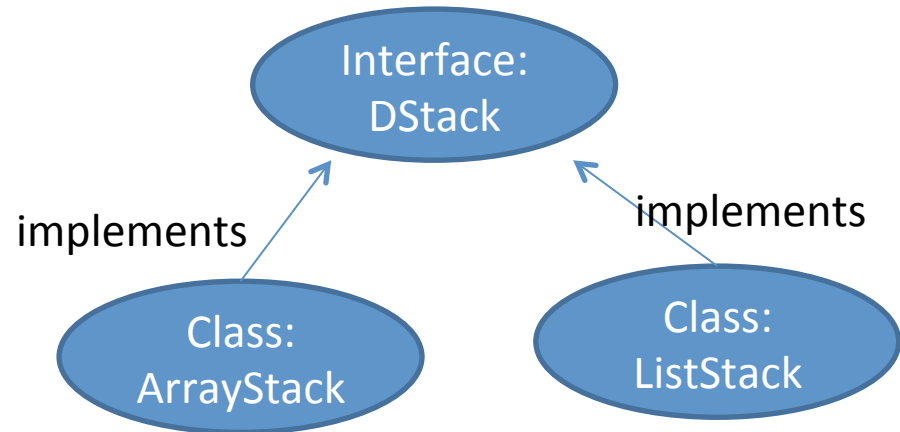
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Java concepts
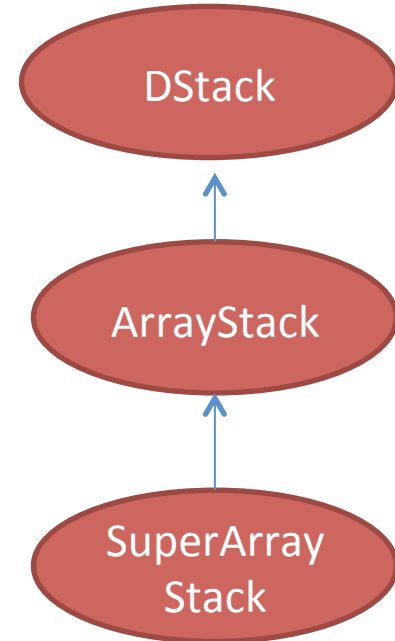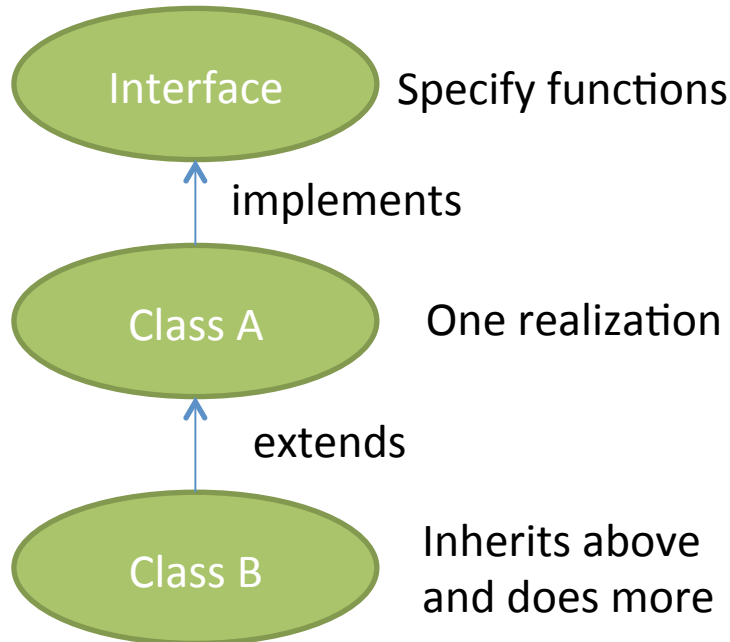
- ## Interface
  - Specify functions
  - Dstack
    - ListStack
    - ArrayStack

- ## Why interface?
  - Division of task
  - Simplify code for
  different implementations

Interface: DStack

implements ↗   ↖ implements

Class: ArrayStack   Class: ListStack

Interface   Specify functions
↑ implements
Class A   One realization
↑ extends
Class B   Inherits above and does more

DStack
↑
ArrayStack
↑
SuperArray Stack

Eclipse startup

- Starting with hw1
  - Create project
  - Implement classes
  - Run
  - More about Eclipse: http://courses.cs.washington.edu/courses/cse143/11wi/eclipse-tutorial/

Using Sox

- Take a .wav sound file
- Convert it to a .dat file:
  - sox secret.wav secret.dat
- Manipulate it with the java program
- Convert it back to a .wav file
  - sox secret.dat secret.wav
- Listen to it

Q&A

- Thank you for coming!