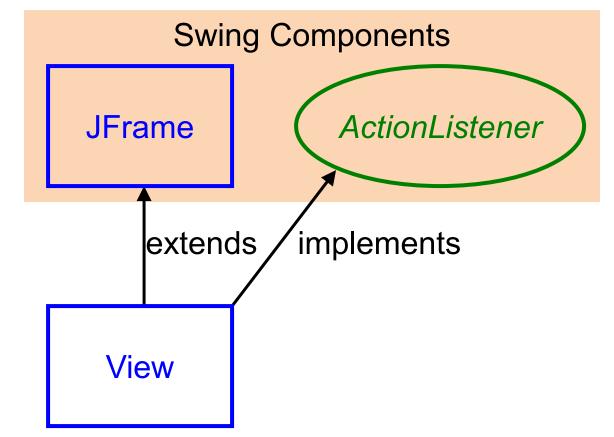
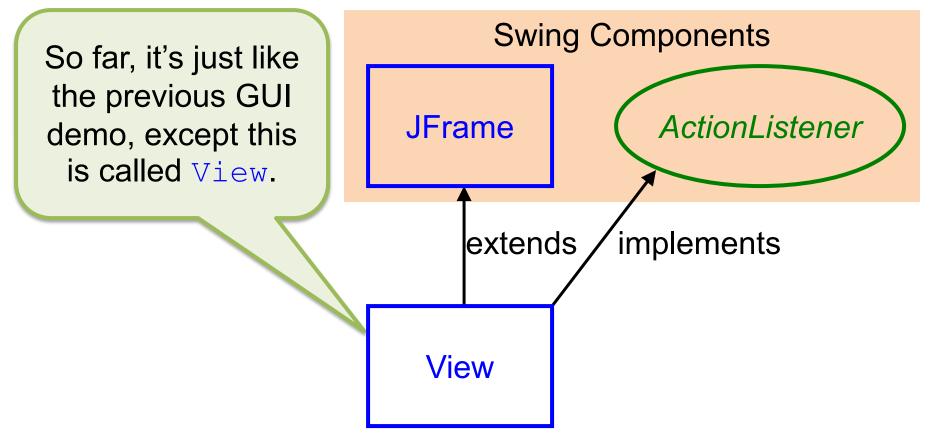
#### Model-View-Controller

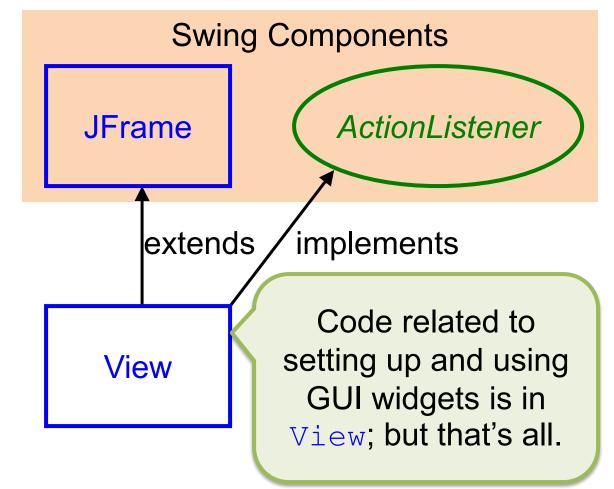


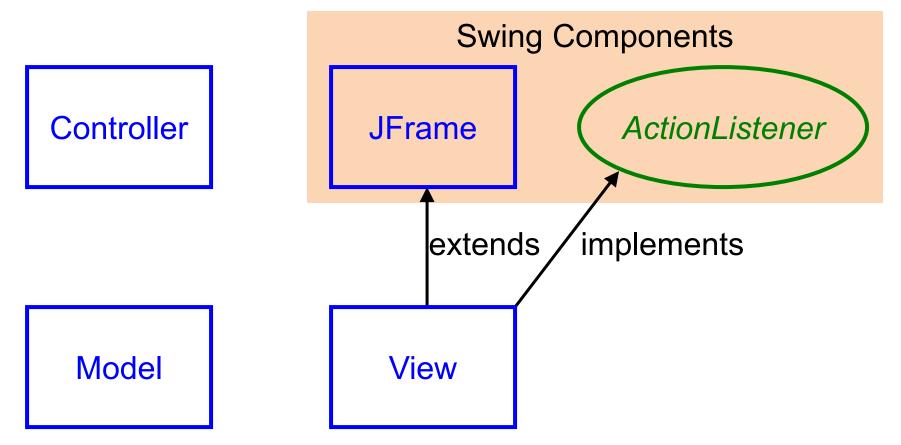
# MVC Design Pattern

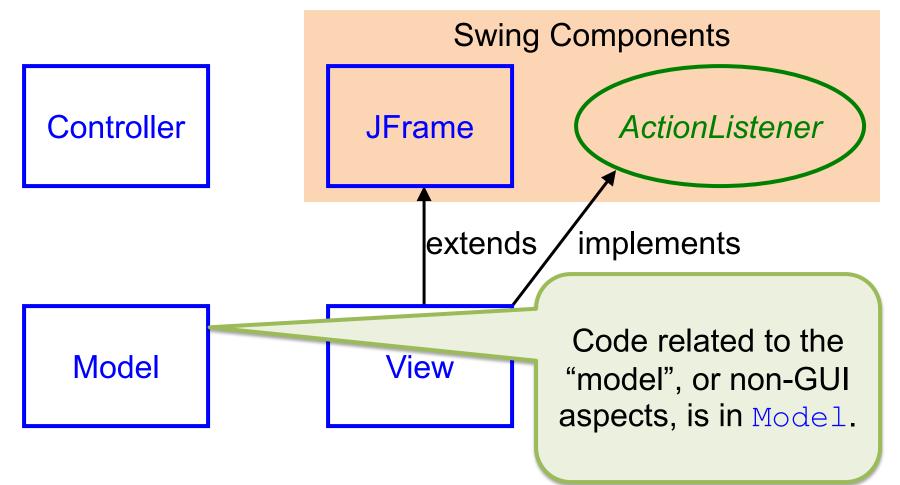
- The dominant approach to organizing software with GUIs is the *model-viewcontroller design pattern*
- There are several versions of this design pattern
  - We illustrate one that is very clean
  - There should be interfaces for the model, view, and controller classes, but they are left out here *only* to keep the sample code smaller

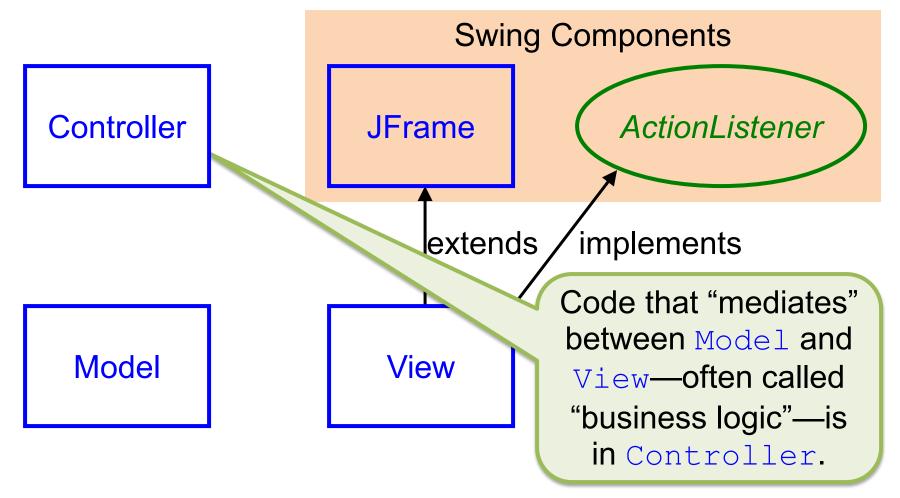


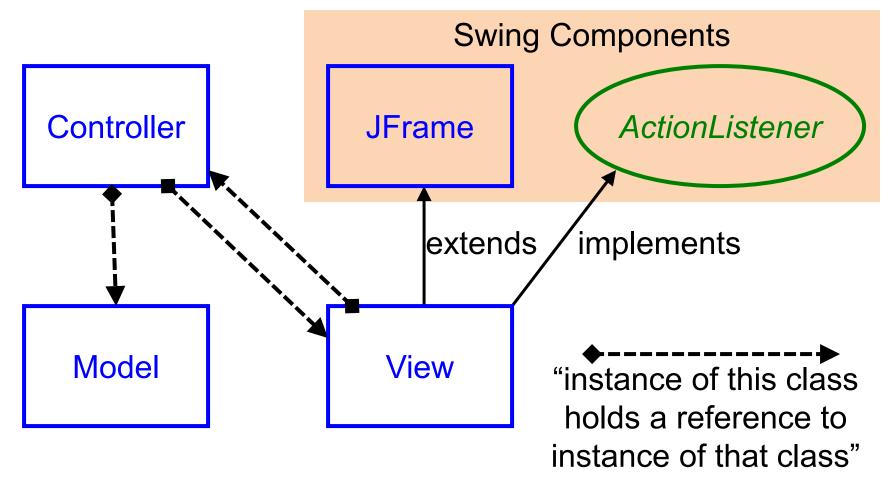










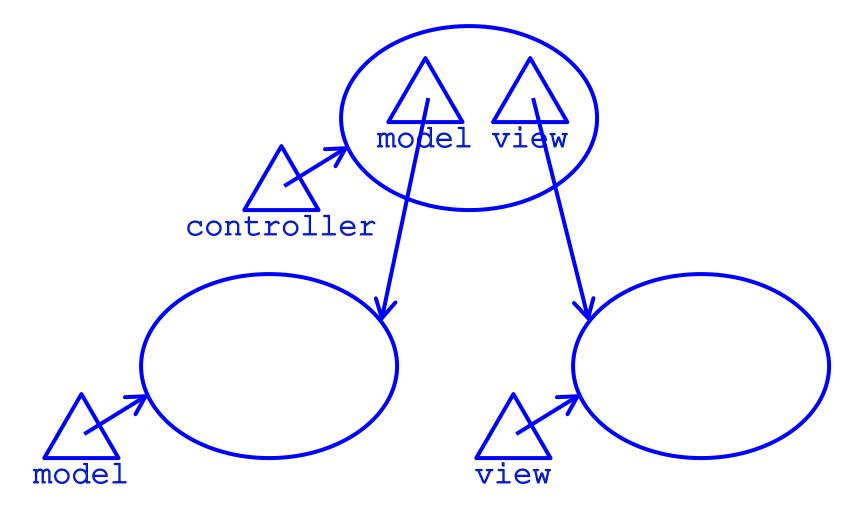


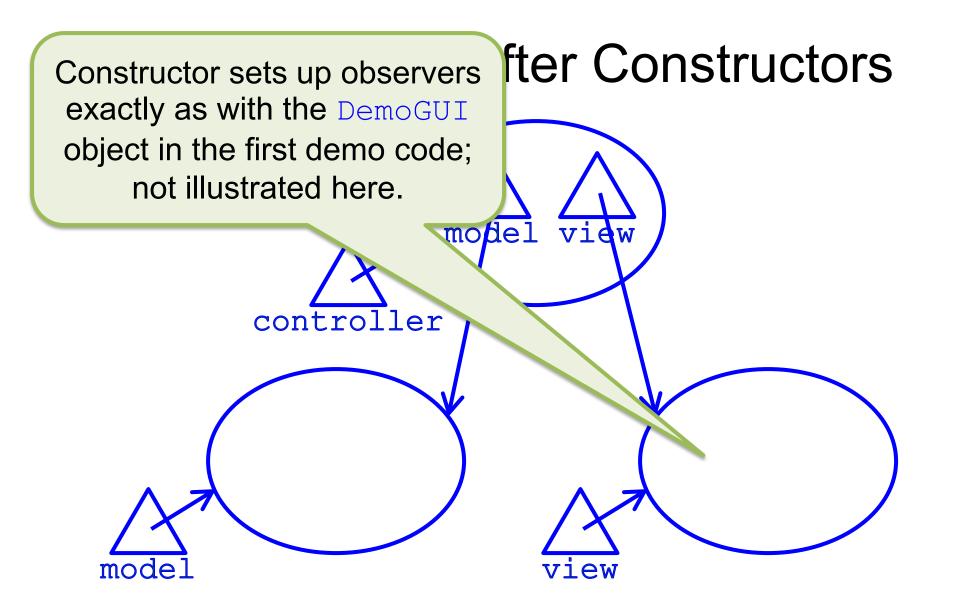
## It's Demo Time

- The DemoGUI2 project contains a very simple MVC GUI application using Swing
- You can get it at:

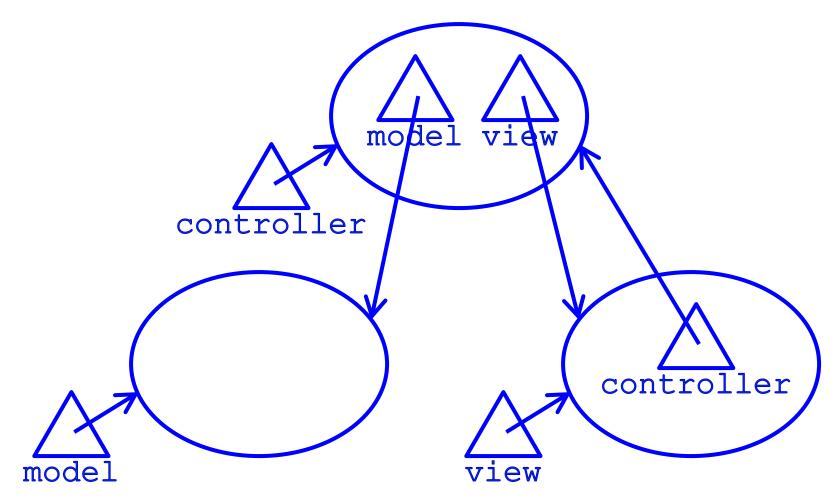
http://web.cse.ohio-state.edu/software/common/DemoGUI2.zip

#### Set-up by main: After Constructors





#### After view.registerObserver



# Now, Who's In Charge?

 Once main completes in the initial thread, the event dispatch thread executes both the Swing code that monitors user interactions and all callbacks it makes to actionPerformed methods