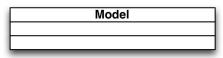


Model-View-Controller Architecture

This architecture is our goal



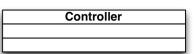
View

this module implements:

- what does the user see/hear
- what actions can the user perform? aka the user interface

this module implements:

- what is the state of the system? such as
- what is the current score?
- whose move is next?
- how close to the end?what actions are allowed right now?



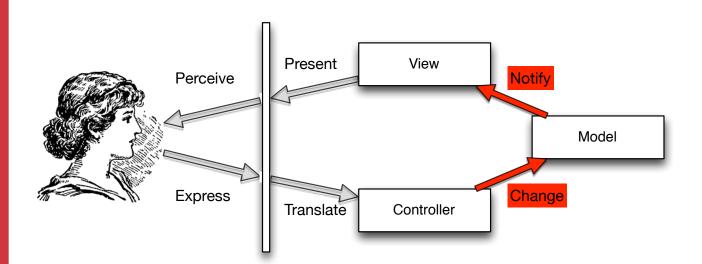
this module implements:

- the logic of the game
- given a user action, what is the impact on the state of the system?
- given other events (clock ticks, countdown timers), what are the impacts on the system's state

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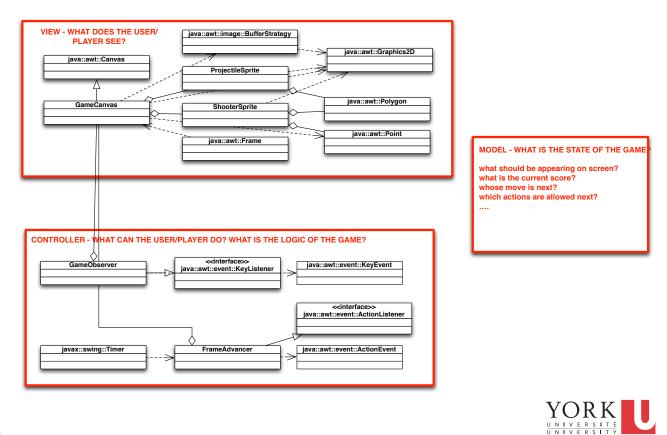
Schematic of MVC



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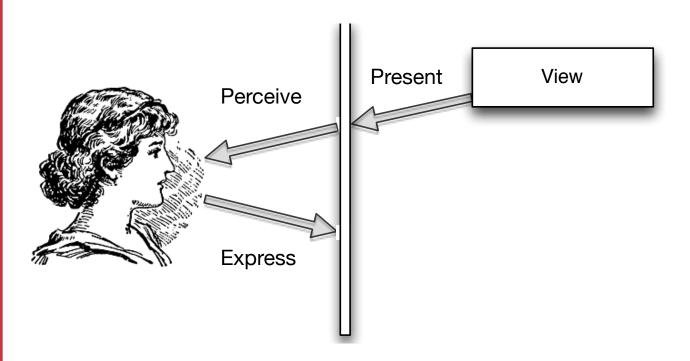
4

Discussion of Codebase



5

Schematic – consider the View



6



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Improvements Needed!

- Components that are associated with the view should only concern themselves with the "how" of the game's appearance, not the "what" of the game
 - the "what" of the game concerns which sprites are onscreen, the current score, the targets, the type of projectile, etc
 - these sorts of things are encapsulated within the GameCanvas class
 - we need to GameCanvas object to make use of a data model

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Updated codebase

- Examine the codebase distributed with this class meeting (class meeting #22).
 - See how the GameCanvas object has delegated the task of representing which sprites to be drawn to the data model.
 - See how the Controller mutates the state of the data model when the user performs the various types of actions.

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