

Null Object, Observer, MVC

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Opening Discussion

- Do you have any questions about the quiz?
- How about projects?
- Have you seen anything interesting in the news?

Null Object

- When what you want is an absence of behavior, don't use null, use an object that has no behavior.
- Bottom line on null is that it is a bug waiting to happen. Any forgotten check becomes a runtime error.
- Instead, make a subtype where the methods don't do anything and you can't have that problem.

Observer

- You are used to this one as the Listeners in Java GUIs, Publisher/Reactor in Scala, or many other models.
- Instead of polling for changes, pieces of code that need to know if something changes in an object are set up as observers.

Model, View, Control

- You have some data that needs to be displayed and to allow user interaction.
- You want to have loose coupling between the different parts.
 - Model – holds the data and core logic.
 - View – renders the model and gets simple user interactions.
 - Control – interprets simple user input to become real variations in the model.
- Combines Observer and State patterns.

Closing Comments

- Questions?