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?
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.
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?