Lecture 4: Design Patterns II

The Final Stretch

- Immutable

- Proxy

- Observable

- Read Only Interface

Immutable

- How do you create a class who's instances are immutable?
  - You can't edit attributes after creation

Proxy

- How do you make access to *heavyweight* classes easier?
  - For example, a database is an example of a heavyweight class

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Observable

- How can you allow classes to communicate with each other without knowing which class they belong to?

Read Only Interface

- How do you allow certain classes to modify objects while restricting access to others?

Pair the Pattern with the Diagram

- Based on the code, match it to one of our remaining patterns.

- How would this pattern be used in code? (what would the main method look like?)

- What forces can influence the implementation of the pattern?

- What anti-patterns exist, and how would they be implemented?

PI Questions

- Join YACRS session: **1200**

Proxy Pattern

- The proxy pattern is implemented in.

- A: Pattern1

- B: Pattern2

- C: Pattern3

- D: Pattern4

Observer Pattern

- The observer pattern is implemented in:

- A: Pattern1

- B: Pattern2

- C: Pattern3

- D: Pattern4

Immutable Pattern

□ The immutable pattern is implemented in:

□ A: Pattern1

□ B: Pattern2

□ C: Pattern3

□ D: Pattern4

Read Only Interface Pattern

- The read only interface pattern is implemented in:

- A: Pattern1

- B: Pattern2

- C: Pattern3

- D: Pattern4

Break

- For 10 minutes

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Design Patterns Review: More codes

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Abstraction Occurrence

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General Hierarchy

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Player Role

Singleton

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Observer

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Delegation

Adaptor

Façade

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Immutable

Read-Only Interface

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Proxy

Factory

Next Week

- Read Chapter 9 of OOSE book

- There will be a quiz

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