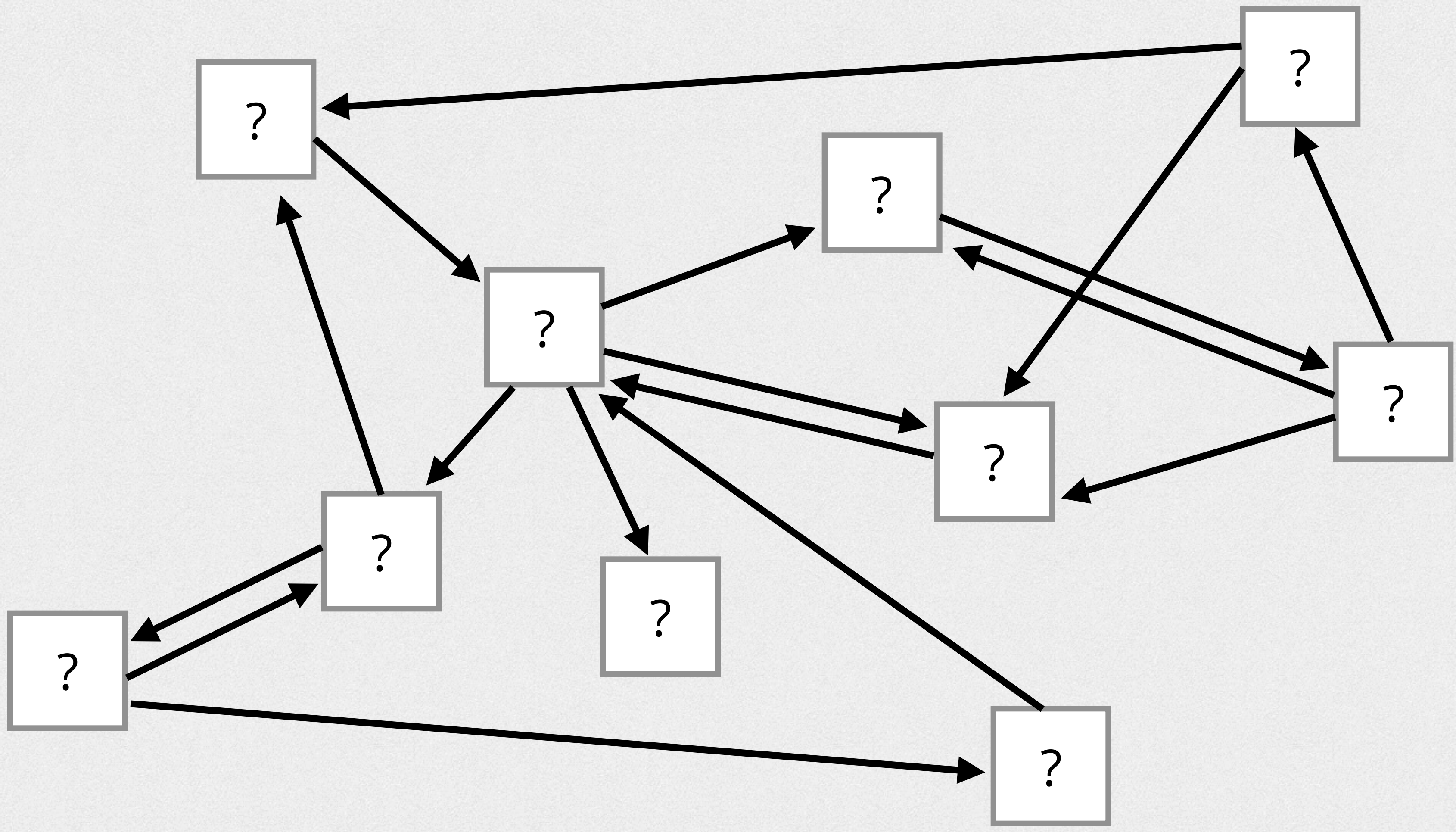
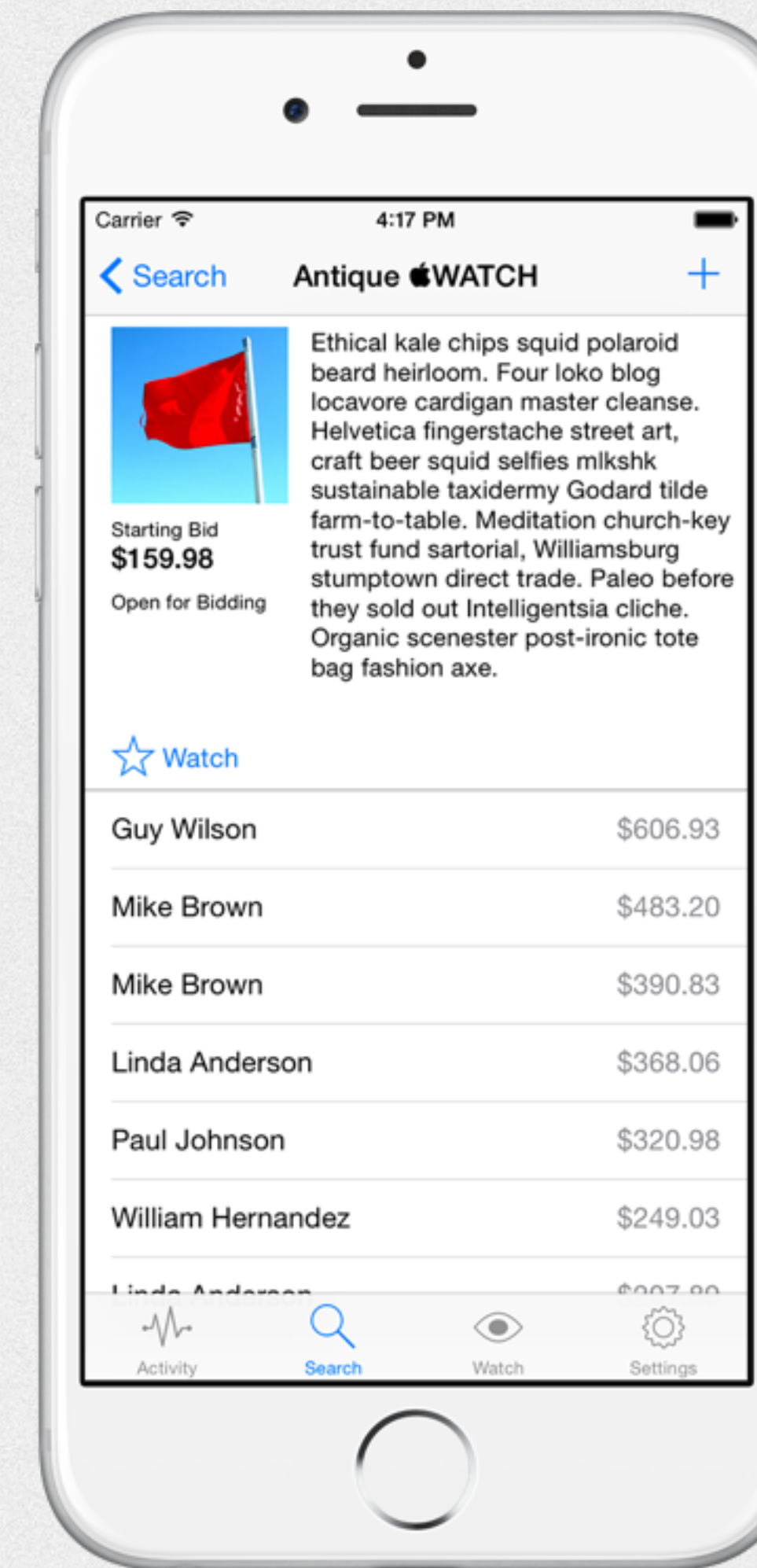
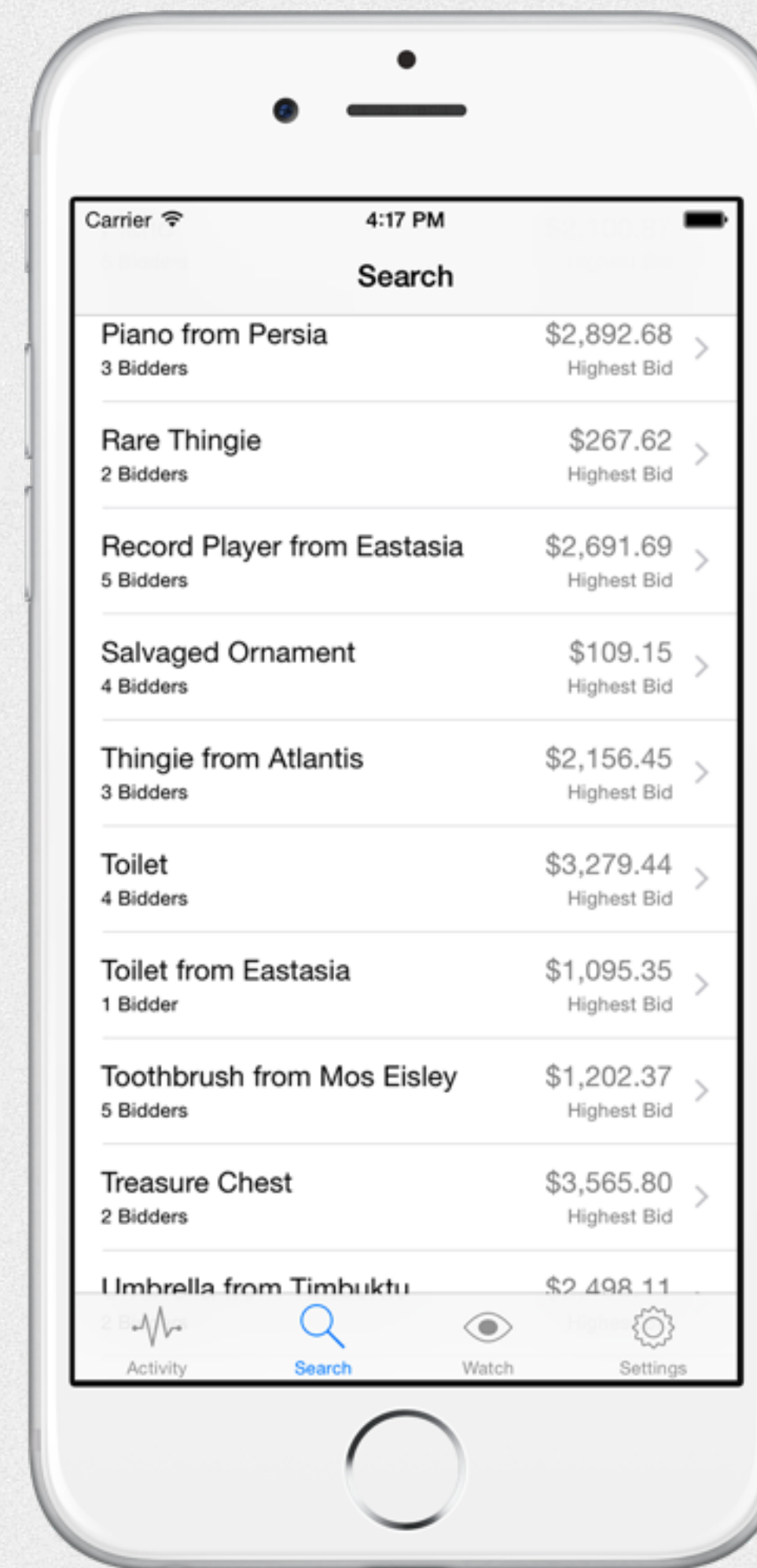
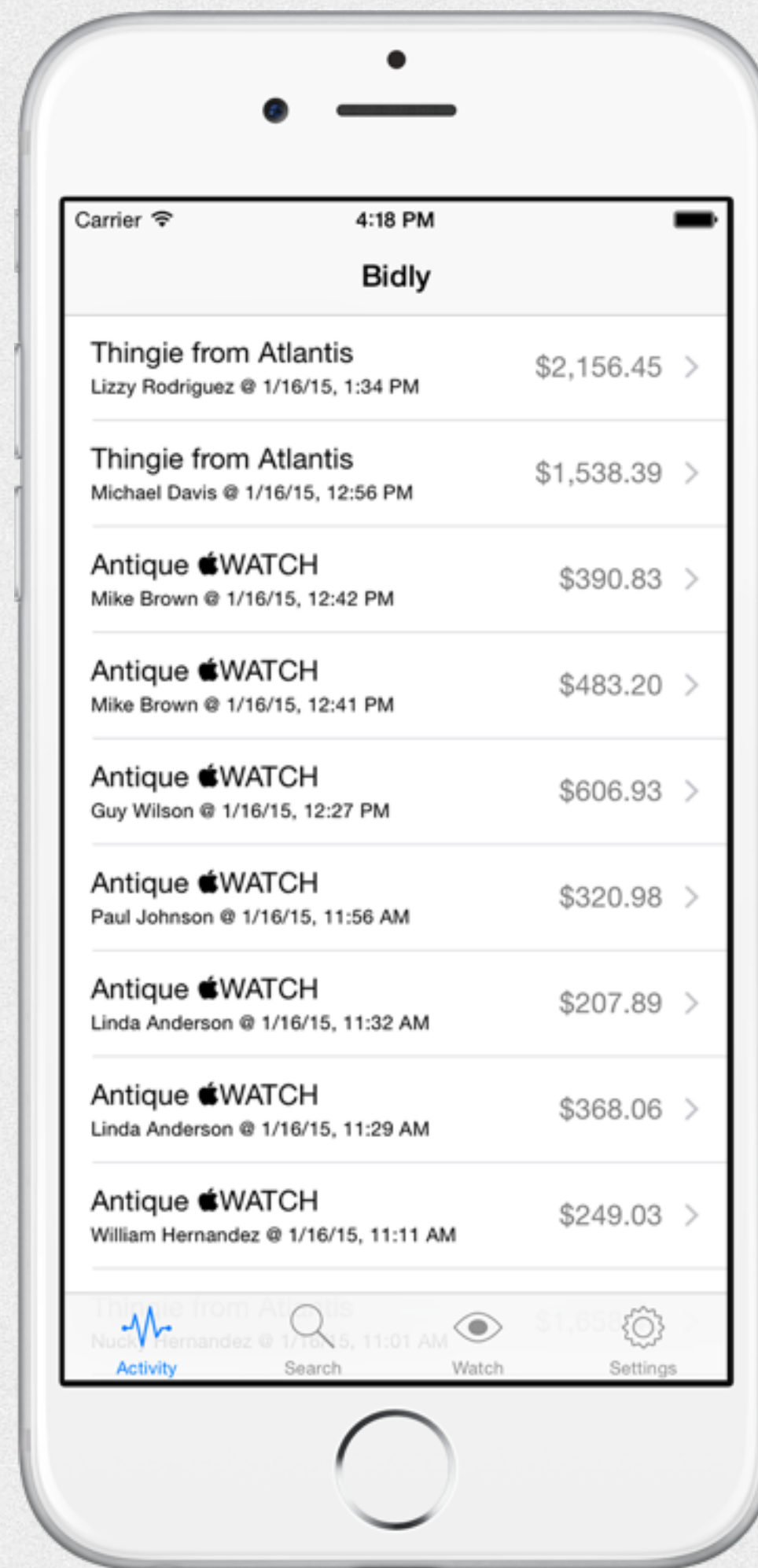


301: App Architecture

Part 1: Overview







Tutorial Overview

Tutorial Overview

⚙ What is architecture?

Tutorial Overview

- ⚙ What is architecture?
- ⚙ **Demo:** Improve domain model

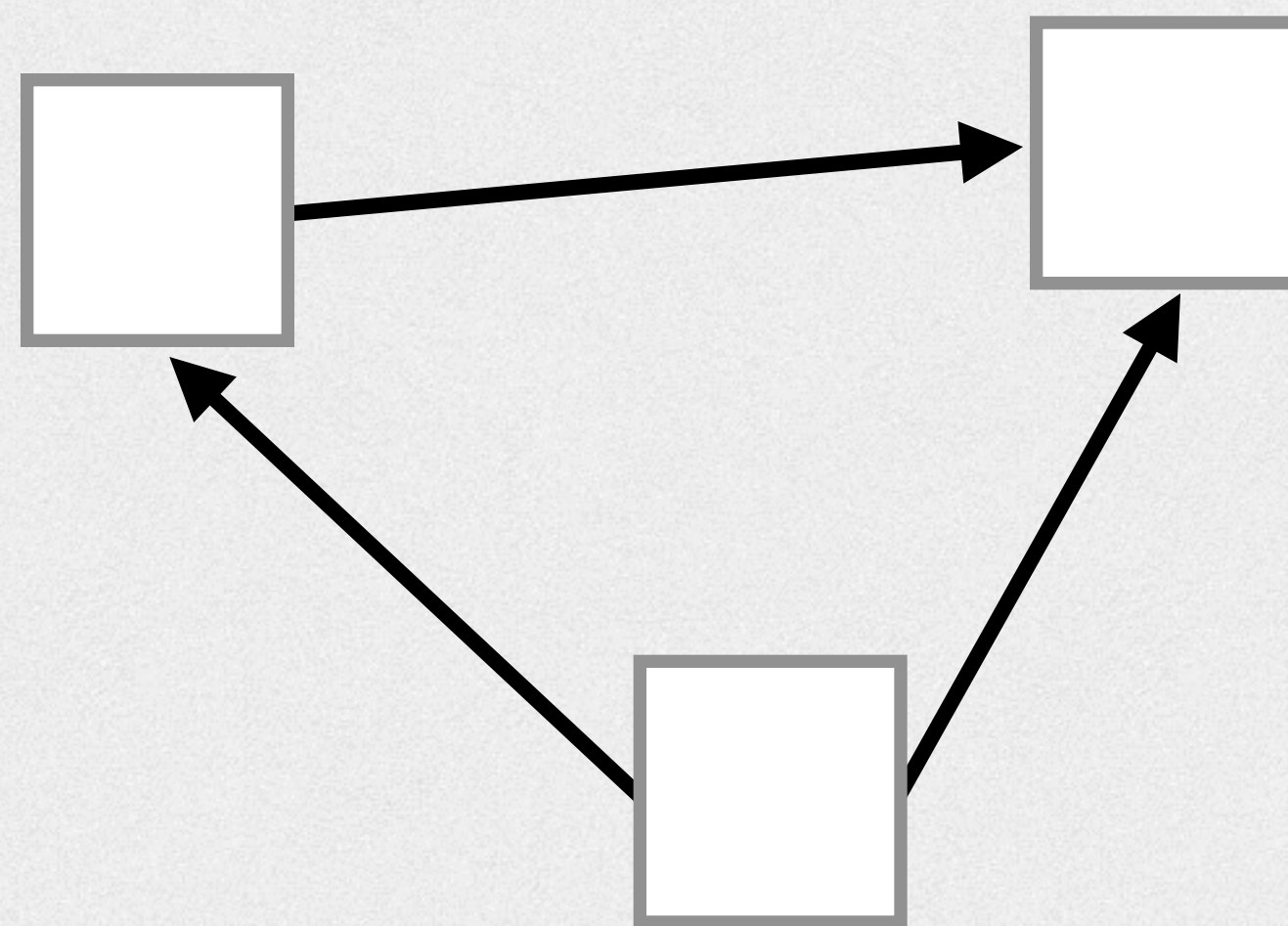
Tutorial Overview

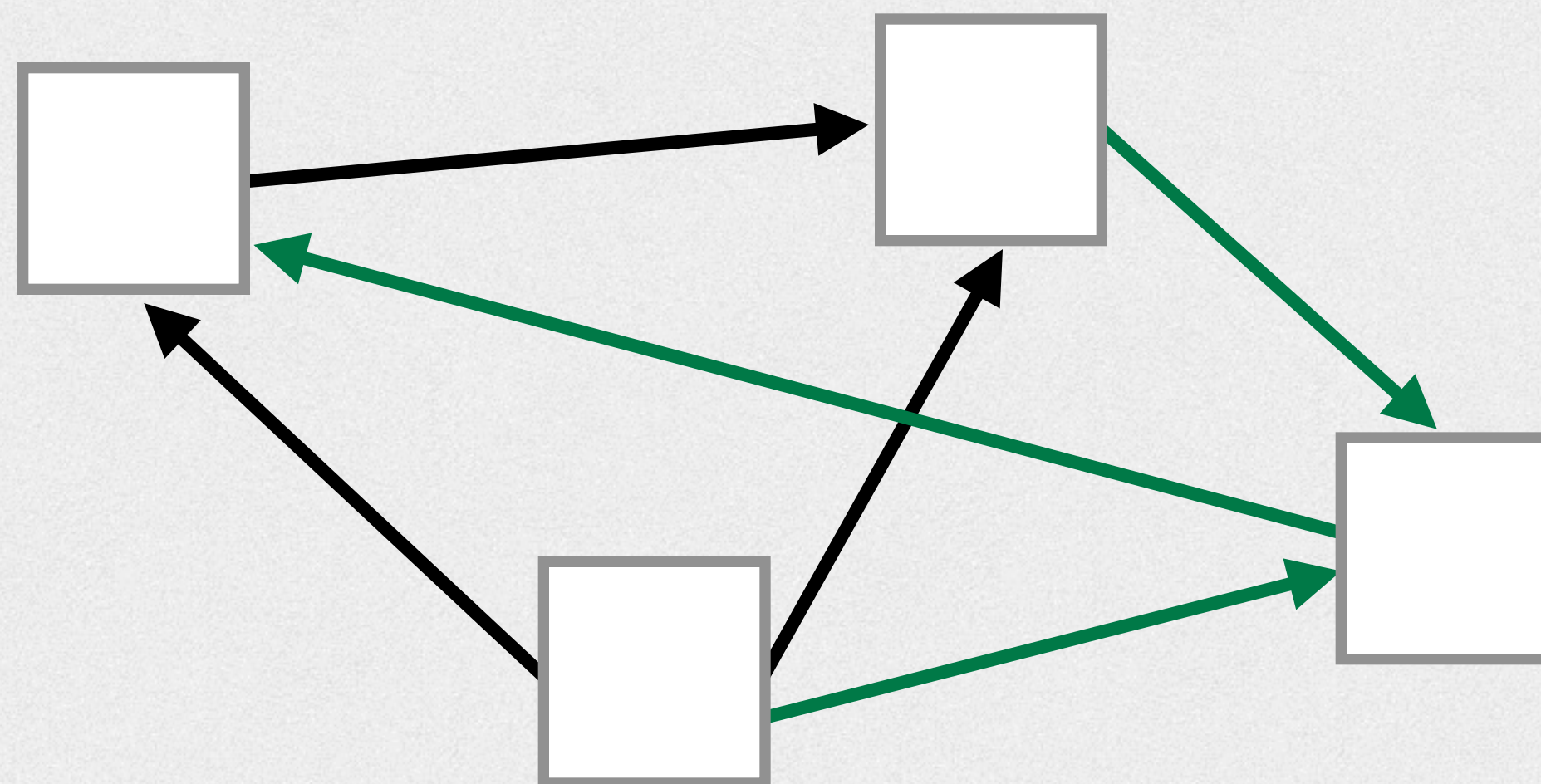
- ⚙ What is architecture?
- ⚙ **Demo:** Improve domain model
- ⚙ **Lab:** Extract networking

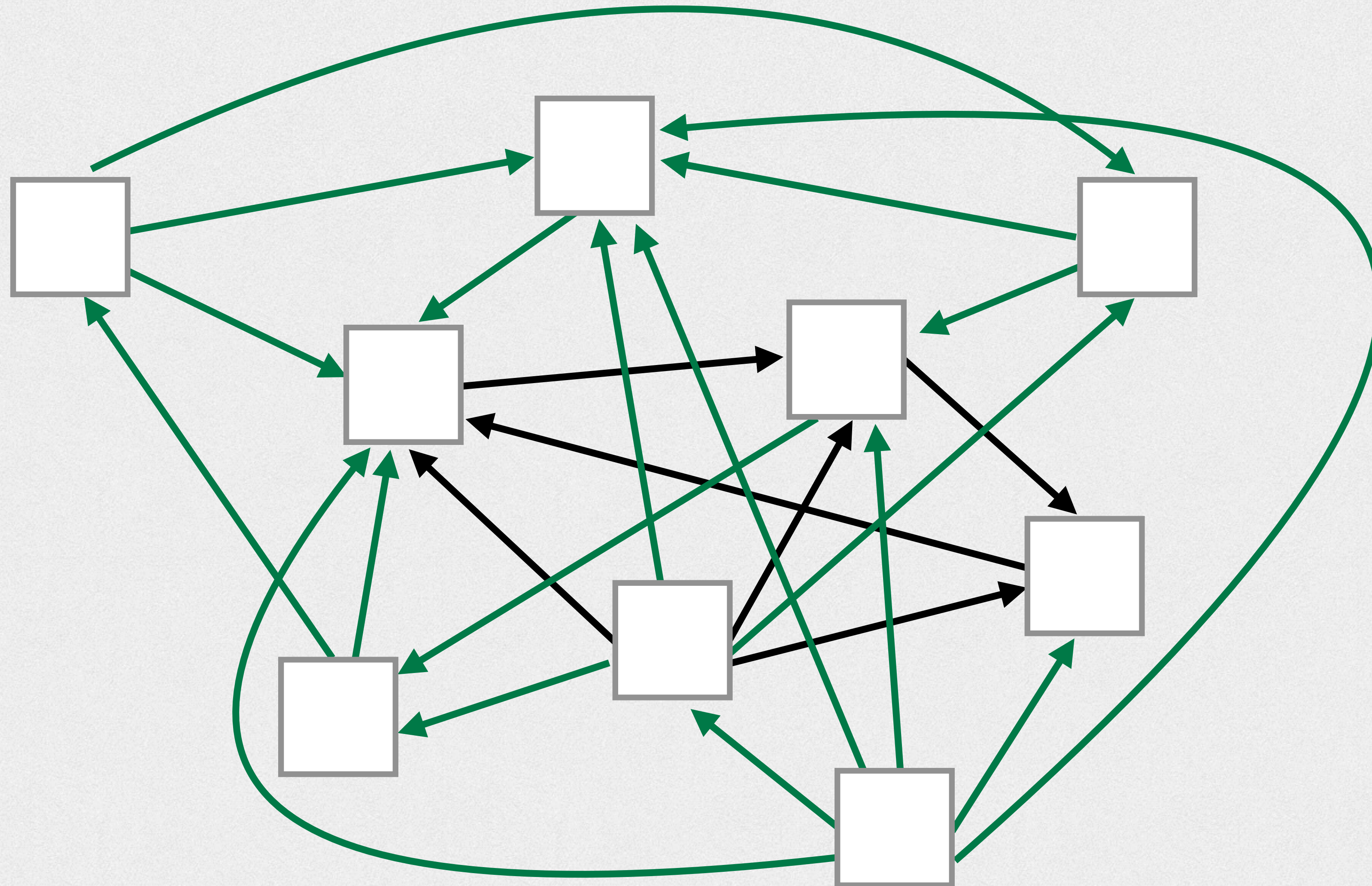
Tutorial Overview

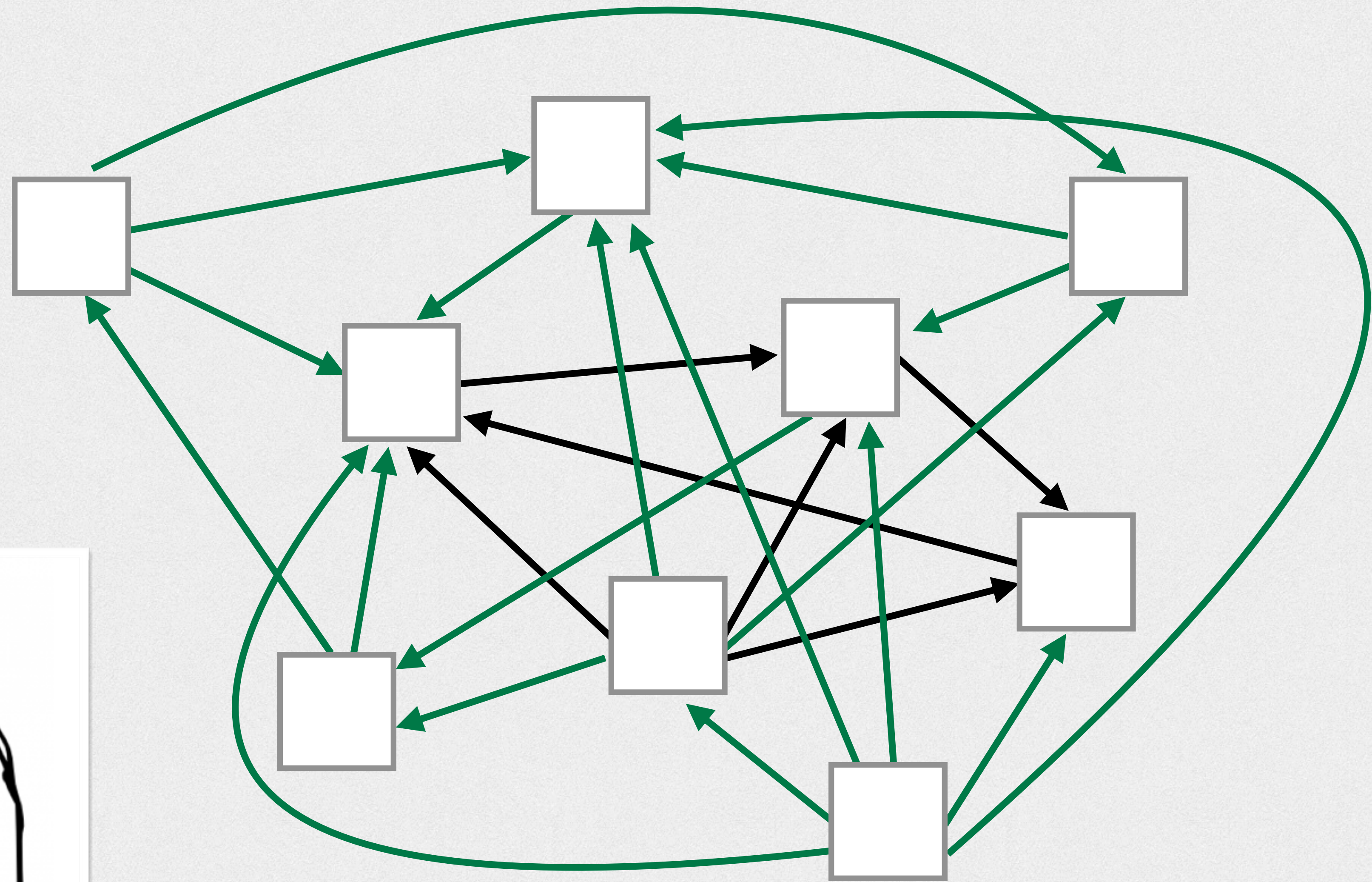
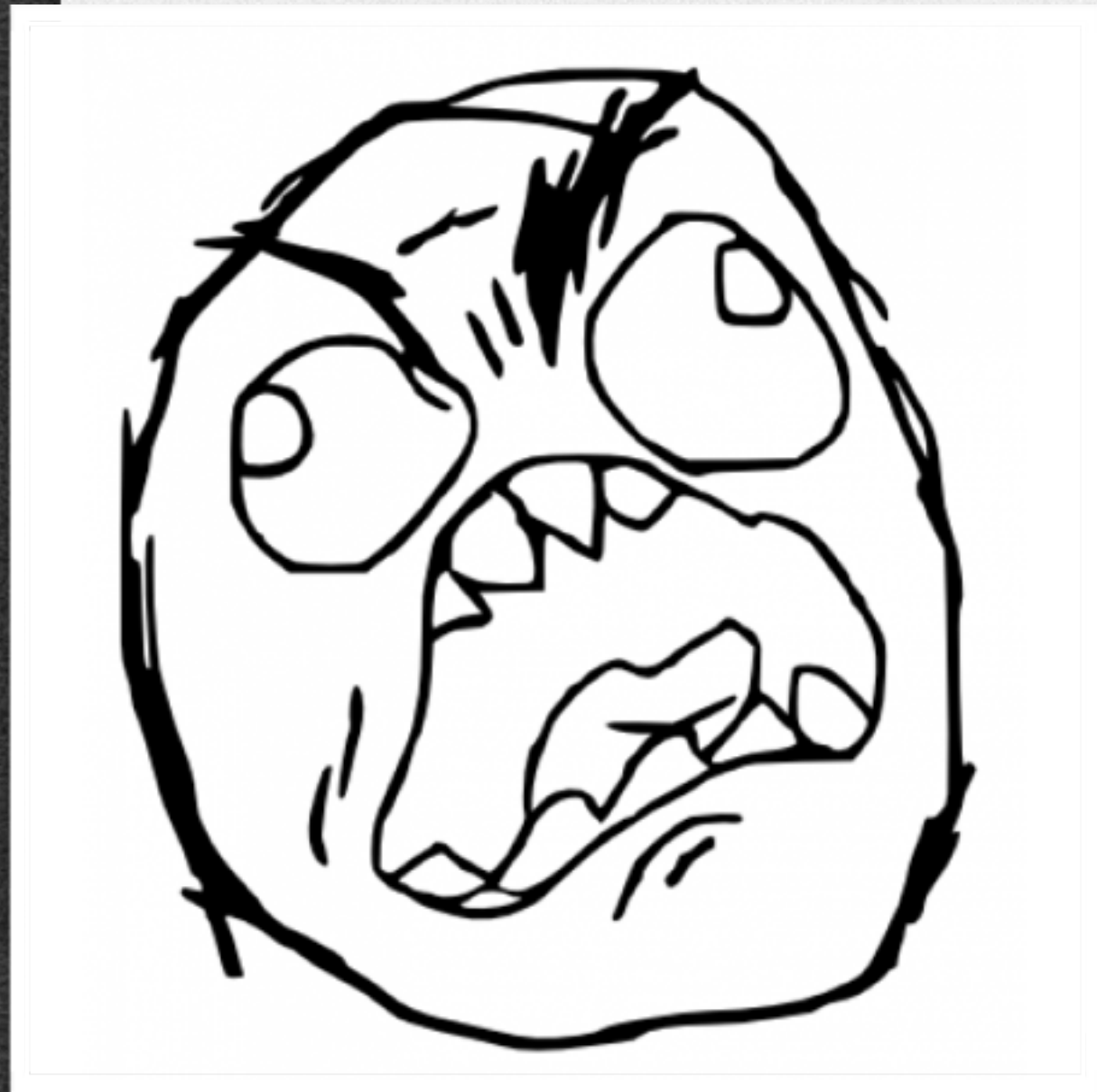
- ⚙ What is architecture?
- ⚙ **Demo:** Improve domain model
- ⚙ **Lab:** Extract networking
- ⚙ **Challenges:** Persistence and Presentation



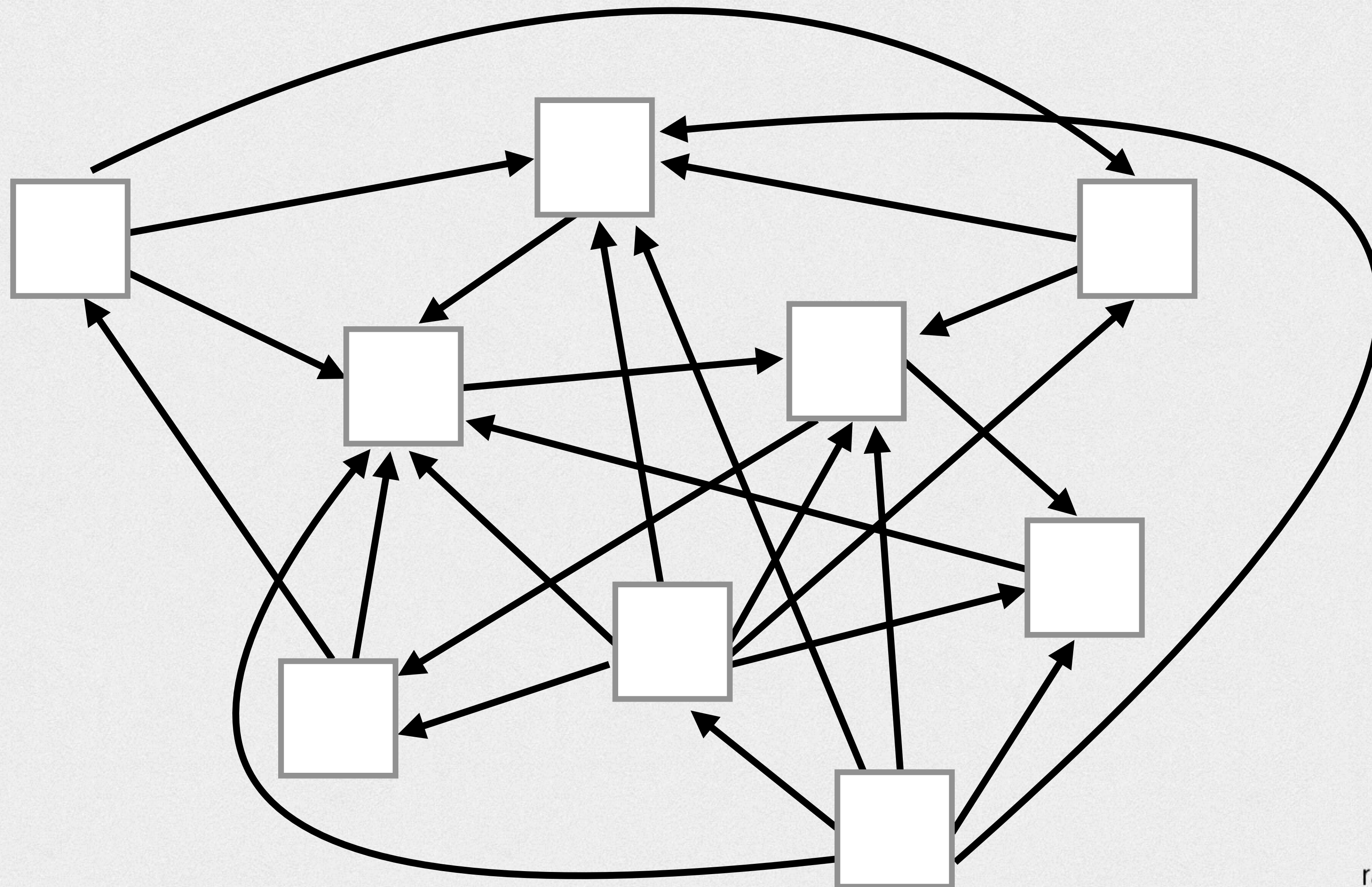




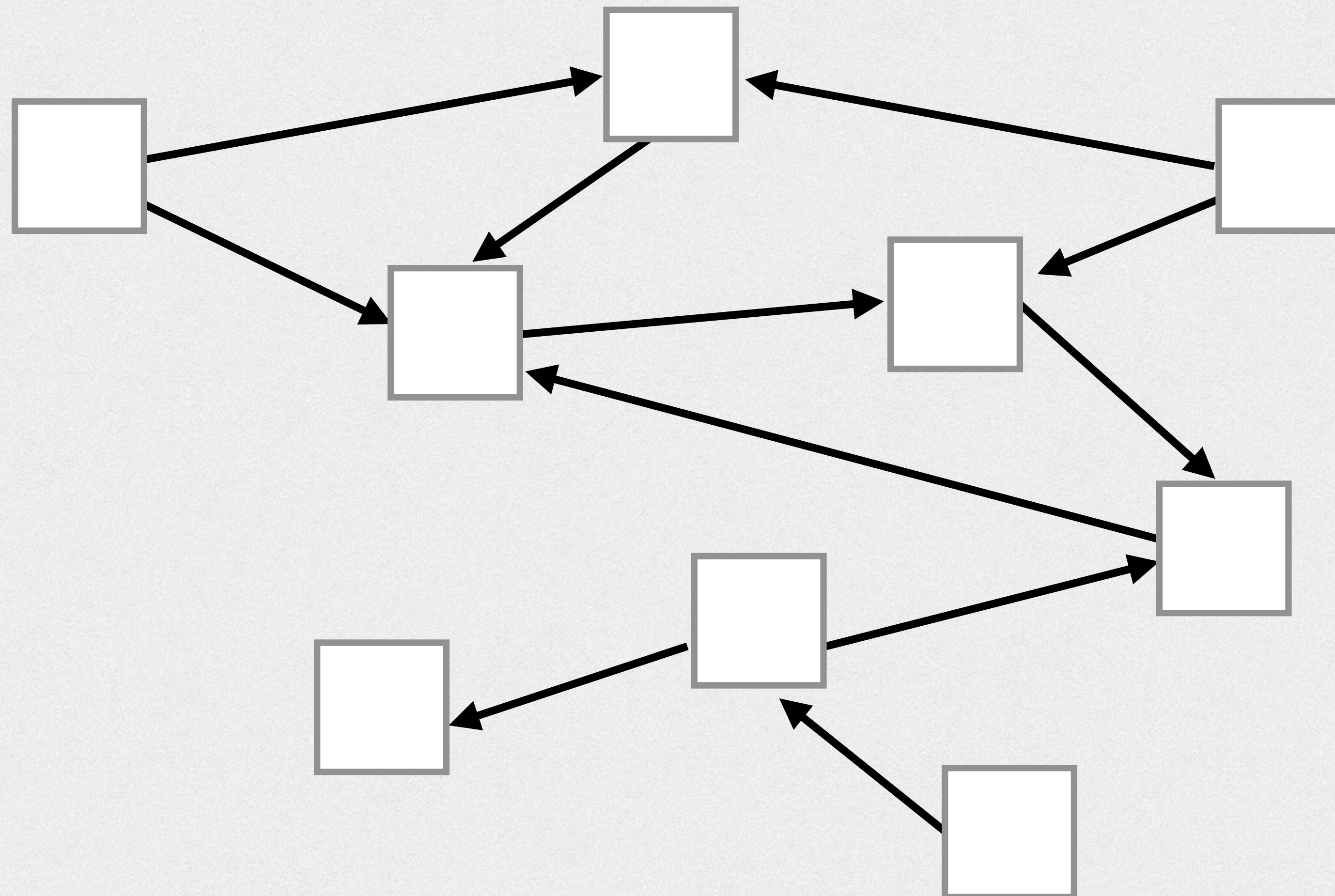




Decoupling



Decoupling



Separation of Responsibilities

Very Big Class

Task 1

Task 2

Separation of Responsibilities

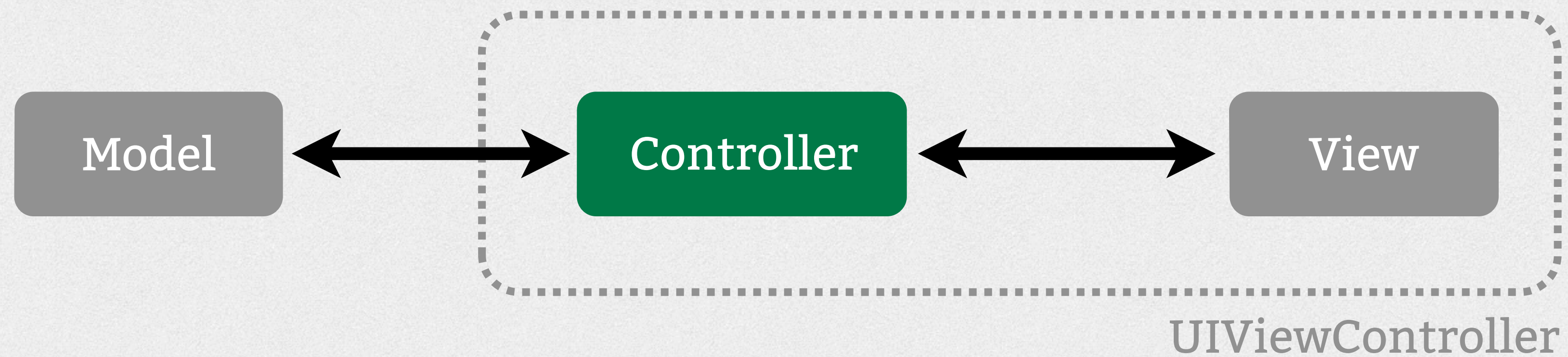
Small
~~Very Big~~ Class

Task 1

Helper Class

Task 2

Model-View-Controller (MVC)



A Typical App

- ⚙ Handling Domain Data
- ⚙ Domain Logic (Business Logic)
- ⚙ Networking
- ⚙ Syncing with External Service
- ⚙ Reachability
- ⚙ Error Handling
- ⚙ Data Storage
- ⚙ Caching
- ⚙ Schema Migration
- ⚙ Paging for Large Data Sets
- ⚙ Format Conversion
- ⚙ Presentation Logic
- ⚙ Input Validation
- ⚙ Handling UI Events
- ⚙ Drawing UI Controls
- ⚙ Preferences and Settings
- ⚙ Authentication (Login)
- ⚙ Location, Photos, Contacts

301: App Architecture

Part 2: Live Demo