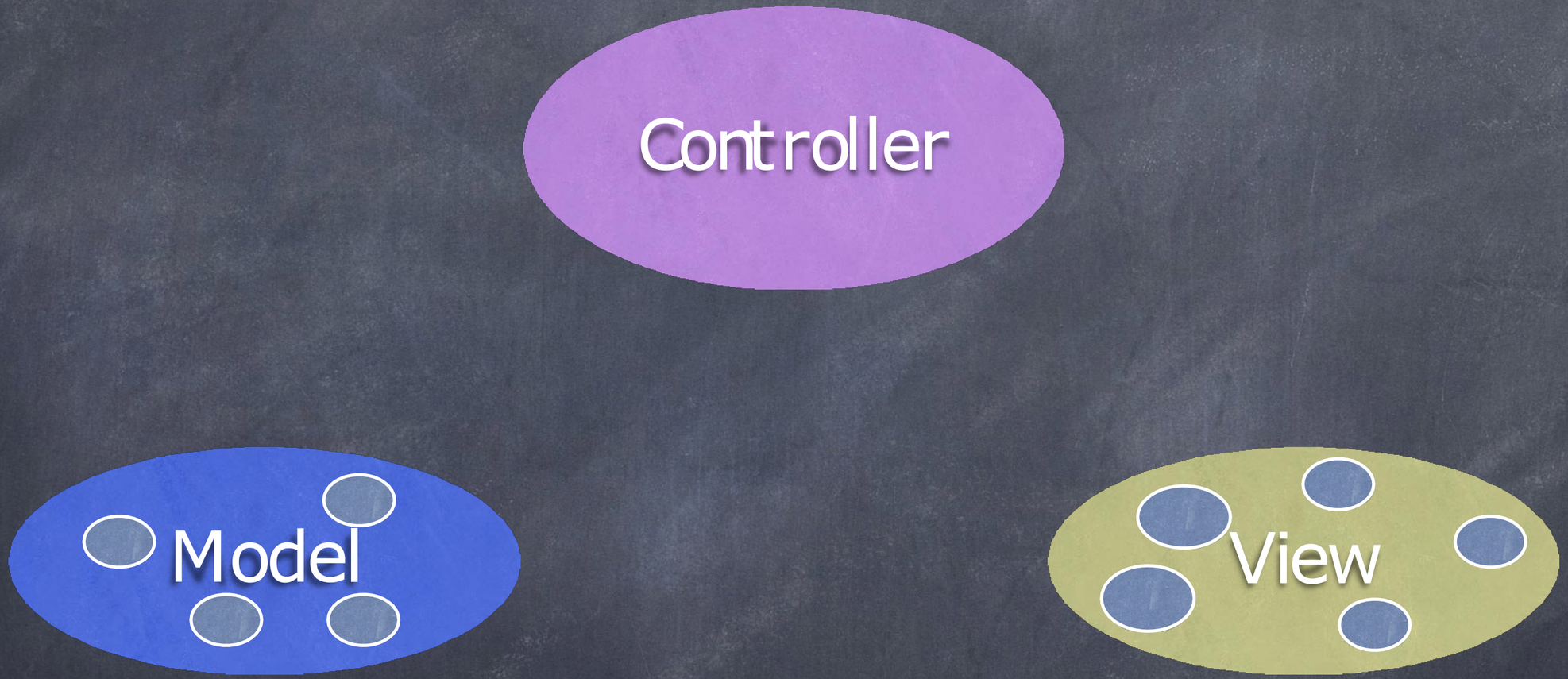
MVC

iOS Club
刘安博 QQ：330332717

MVC



Divide objects in your program into 3 “camps.”

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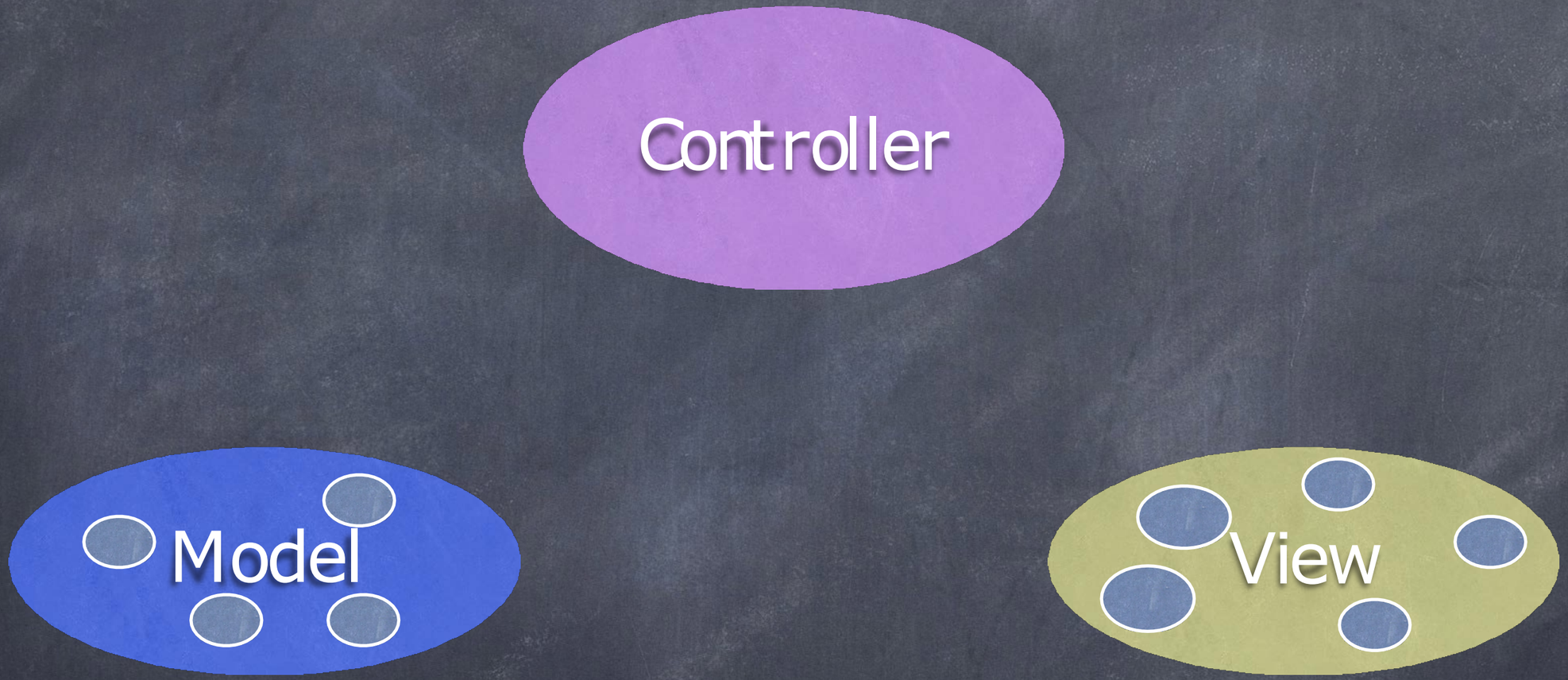

Model = What your application is (but not how it is displayed)

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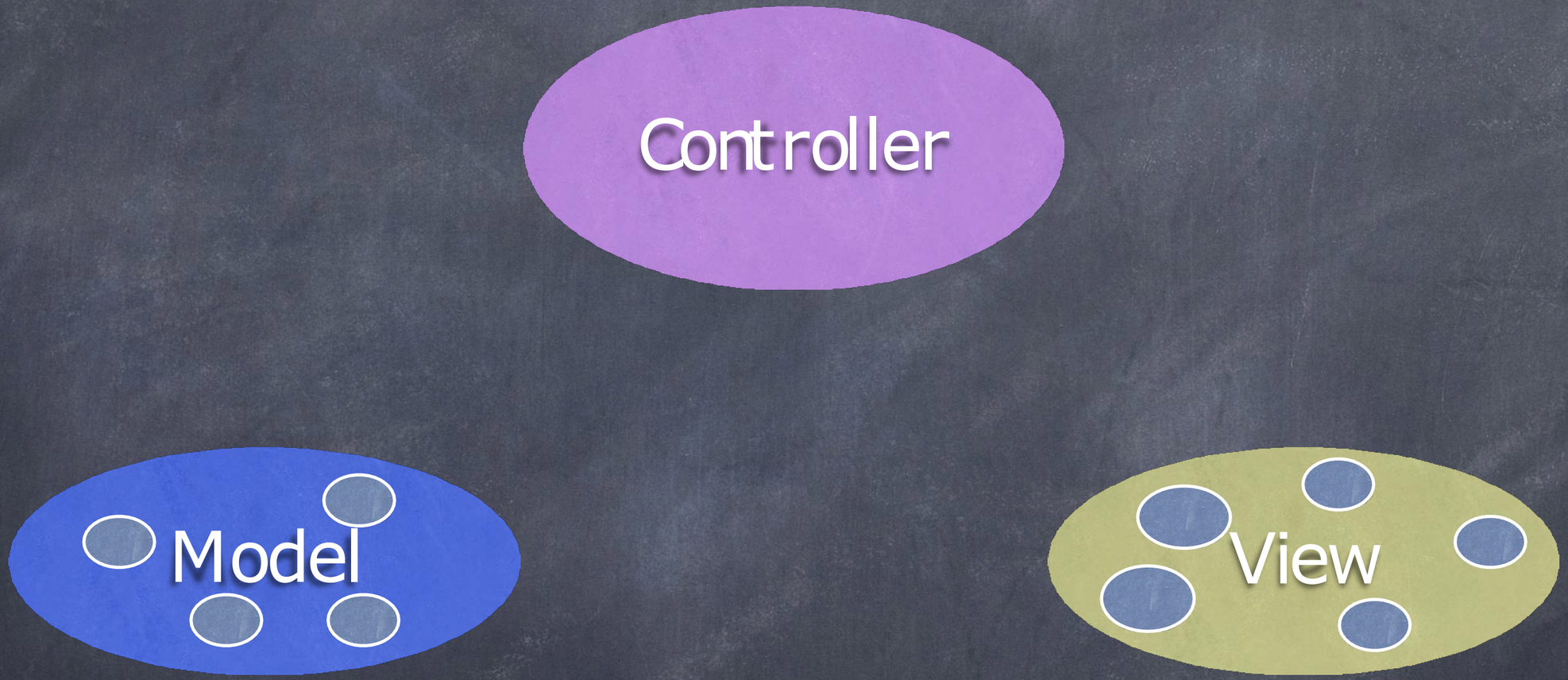

Controller = How your Model is presented to the user (UI logic)

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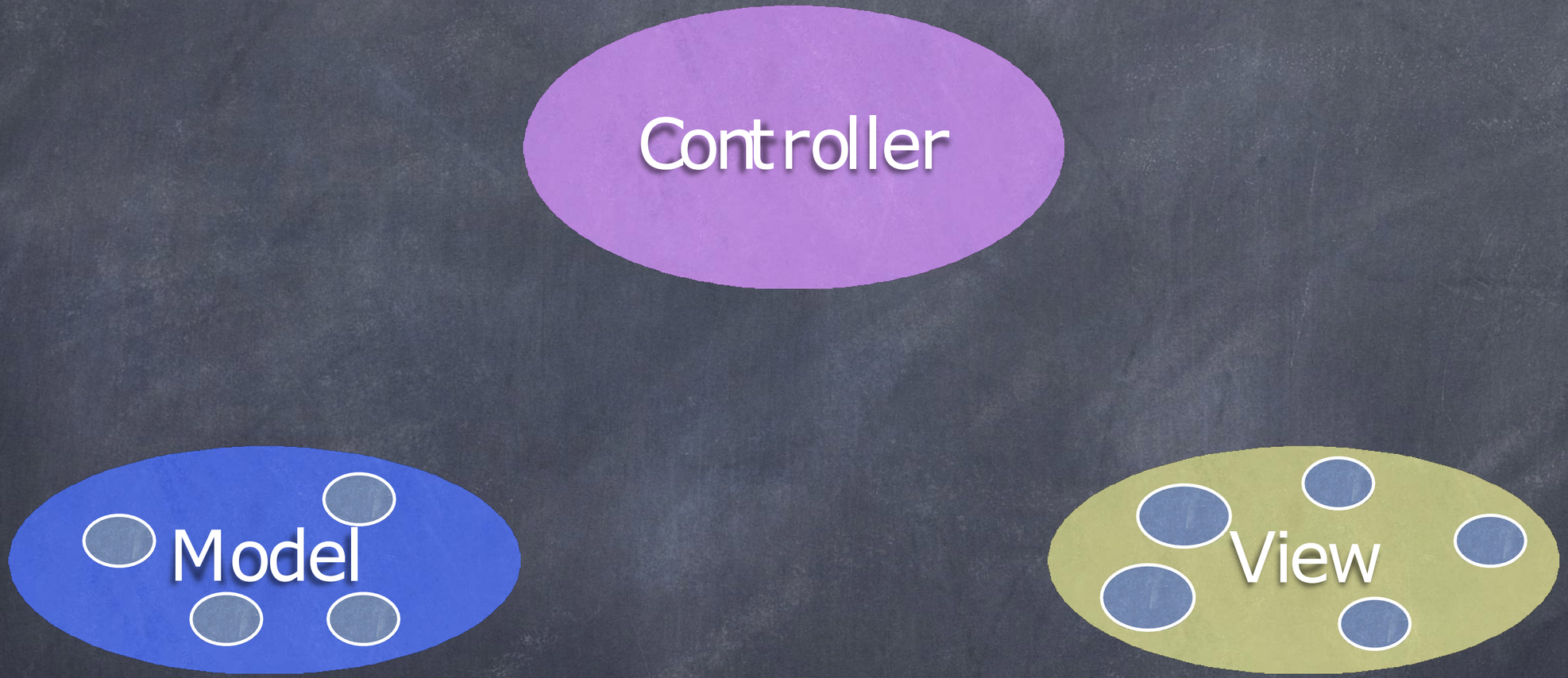

View = Your Controller's minions

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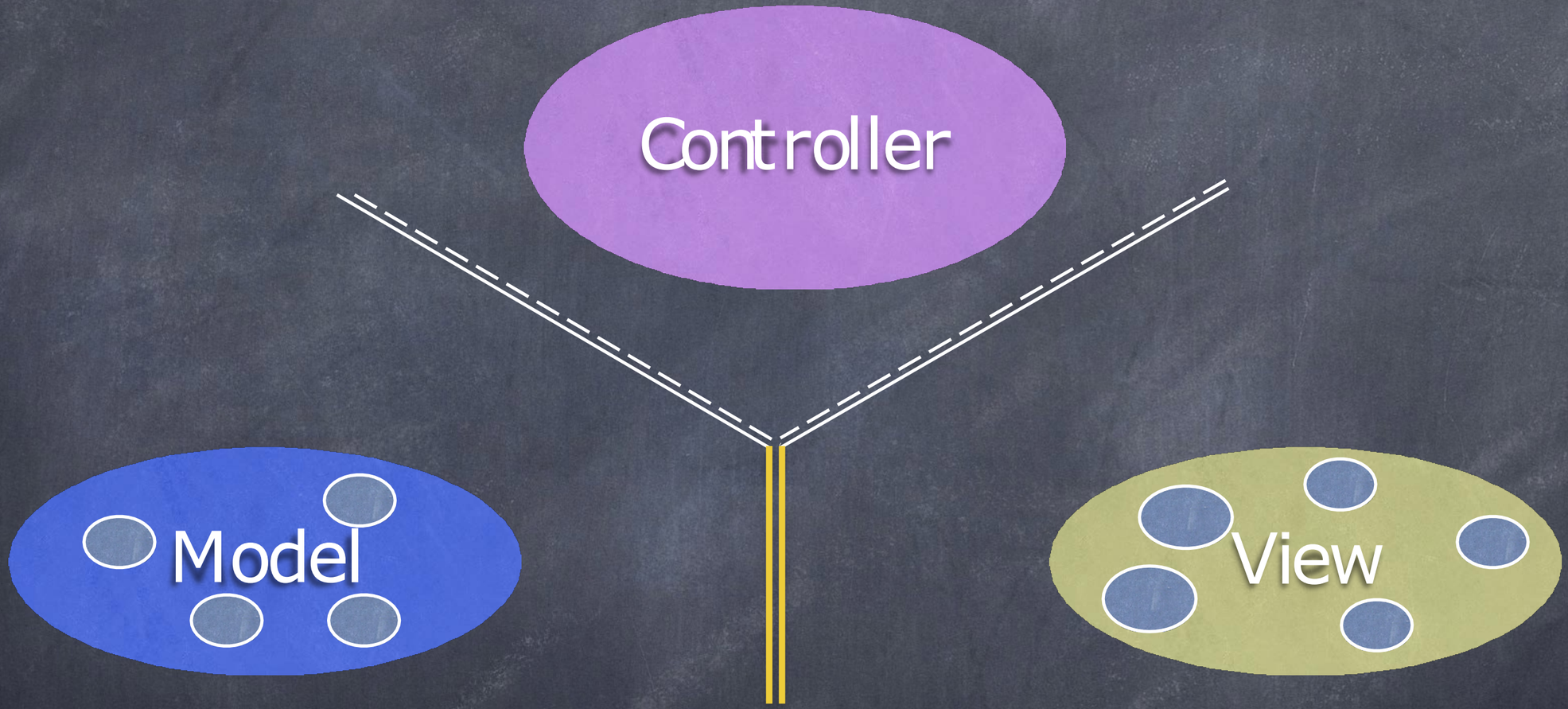

It's all about managing communication between camps

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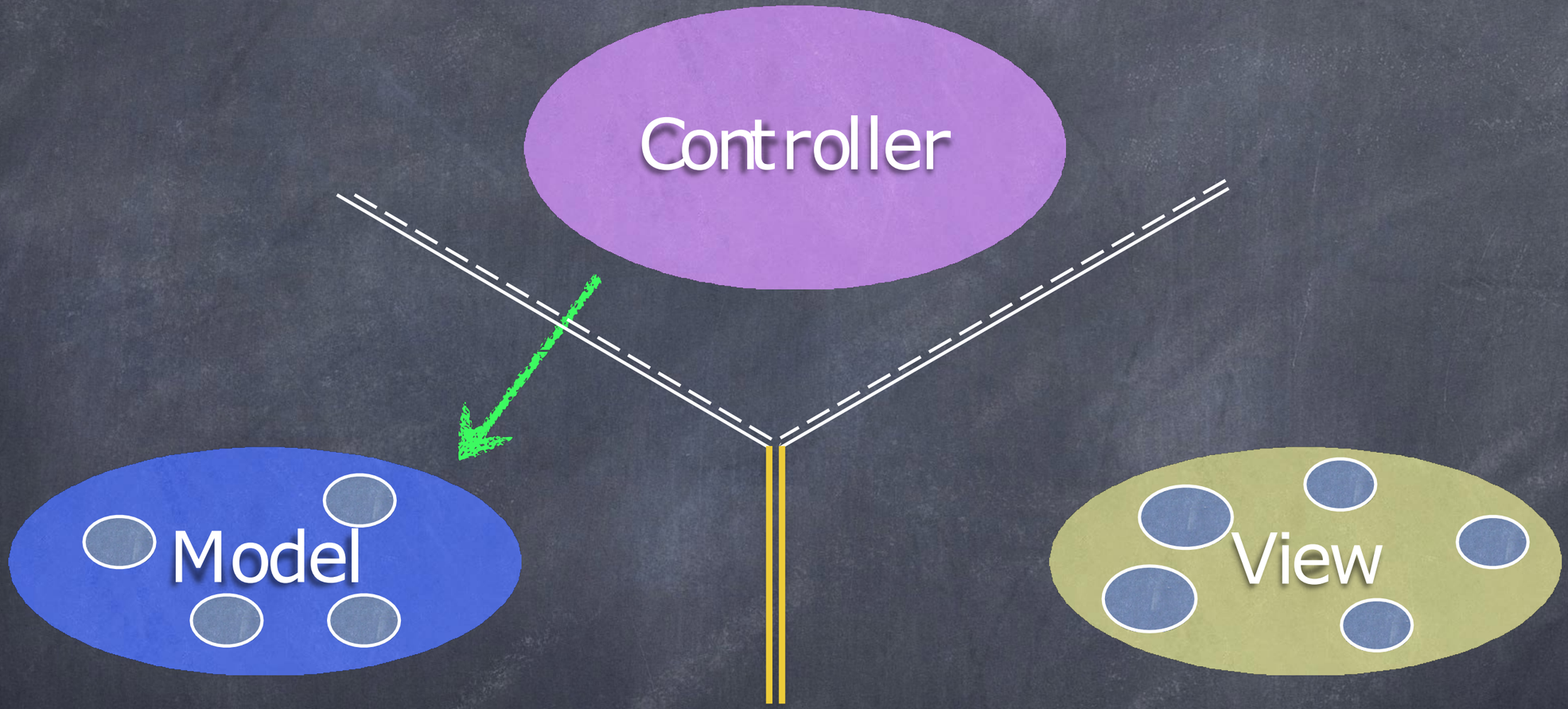
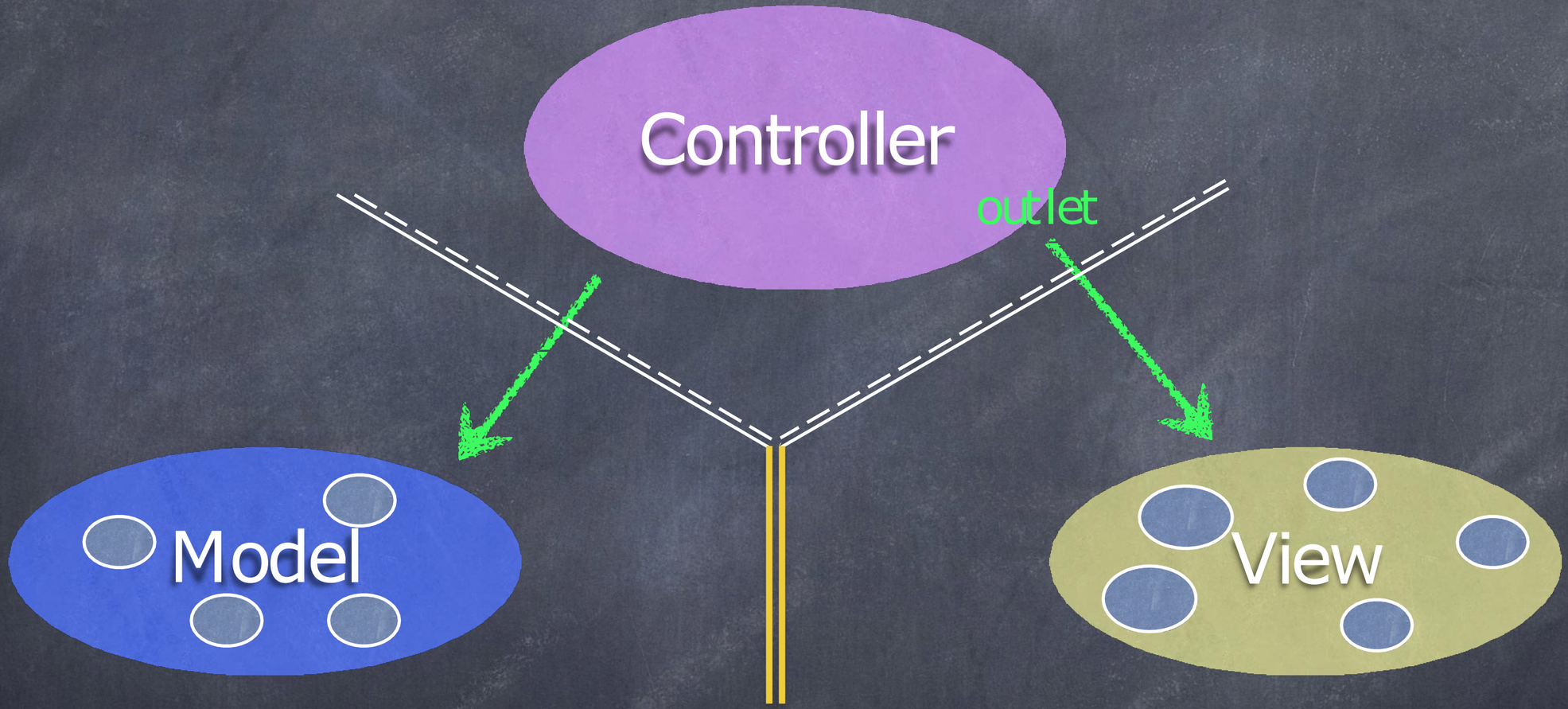


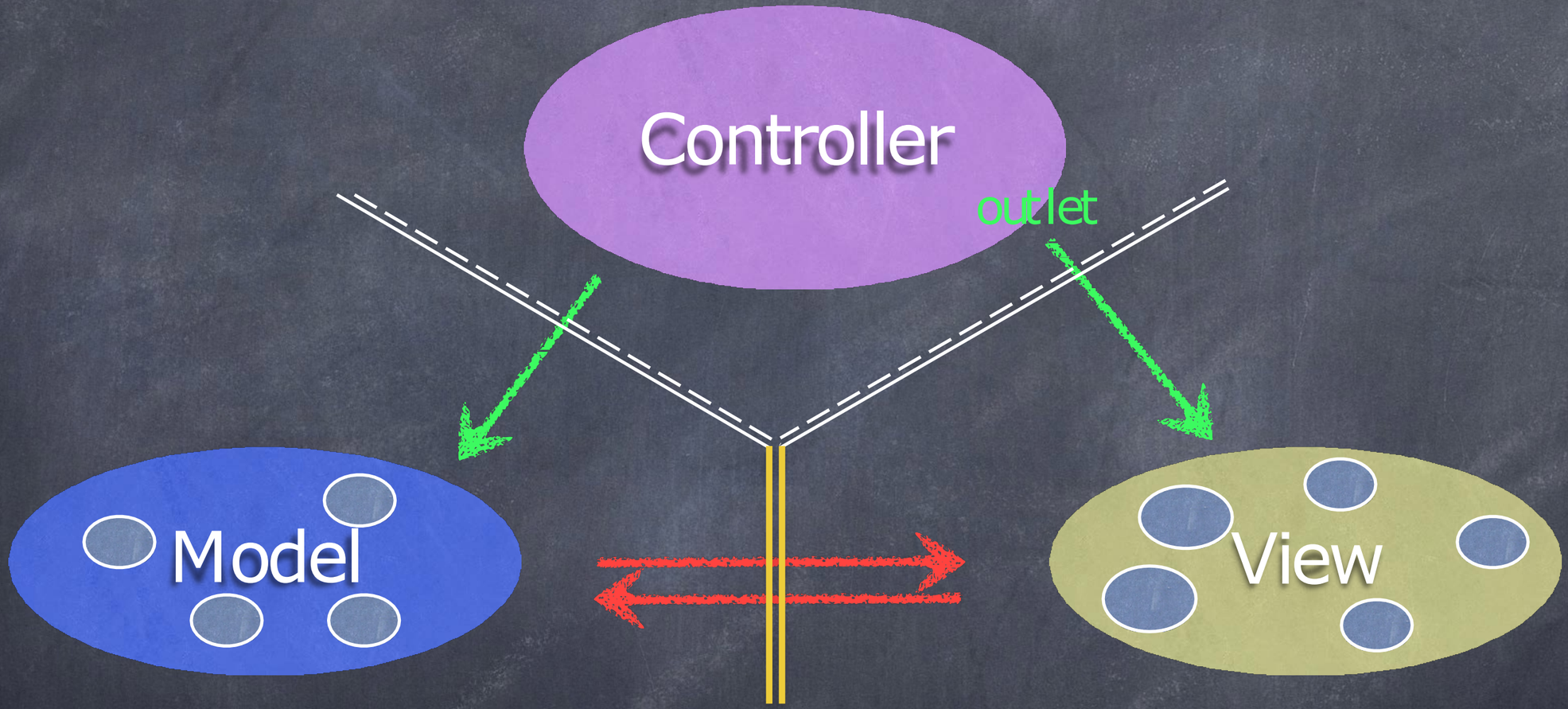
Controllers can always talk directly to their Model.

MVC



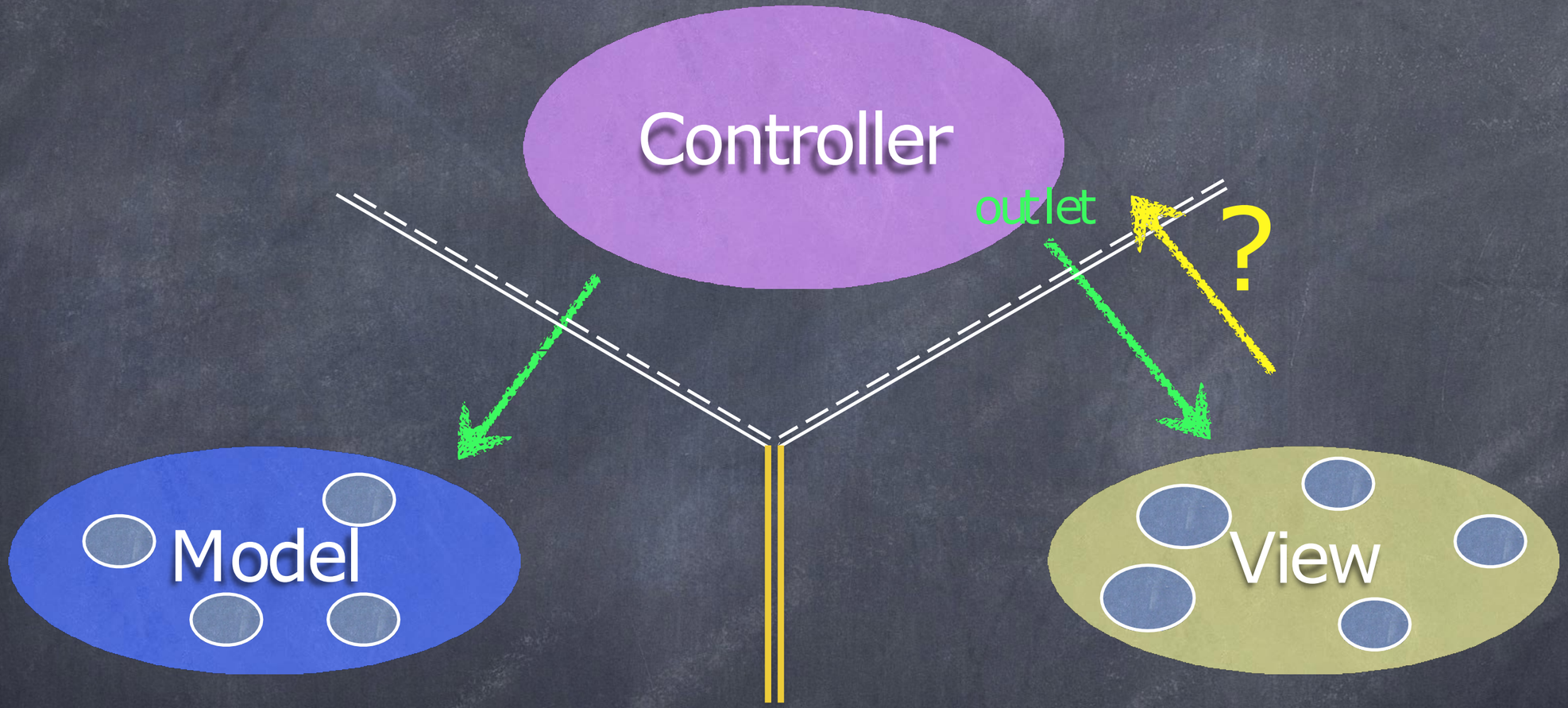
Controllers can also talk directly to their View.

MVC



The Model and View should never speak to each other.

MVC



Can the View speak to its Controller?

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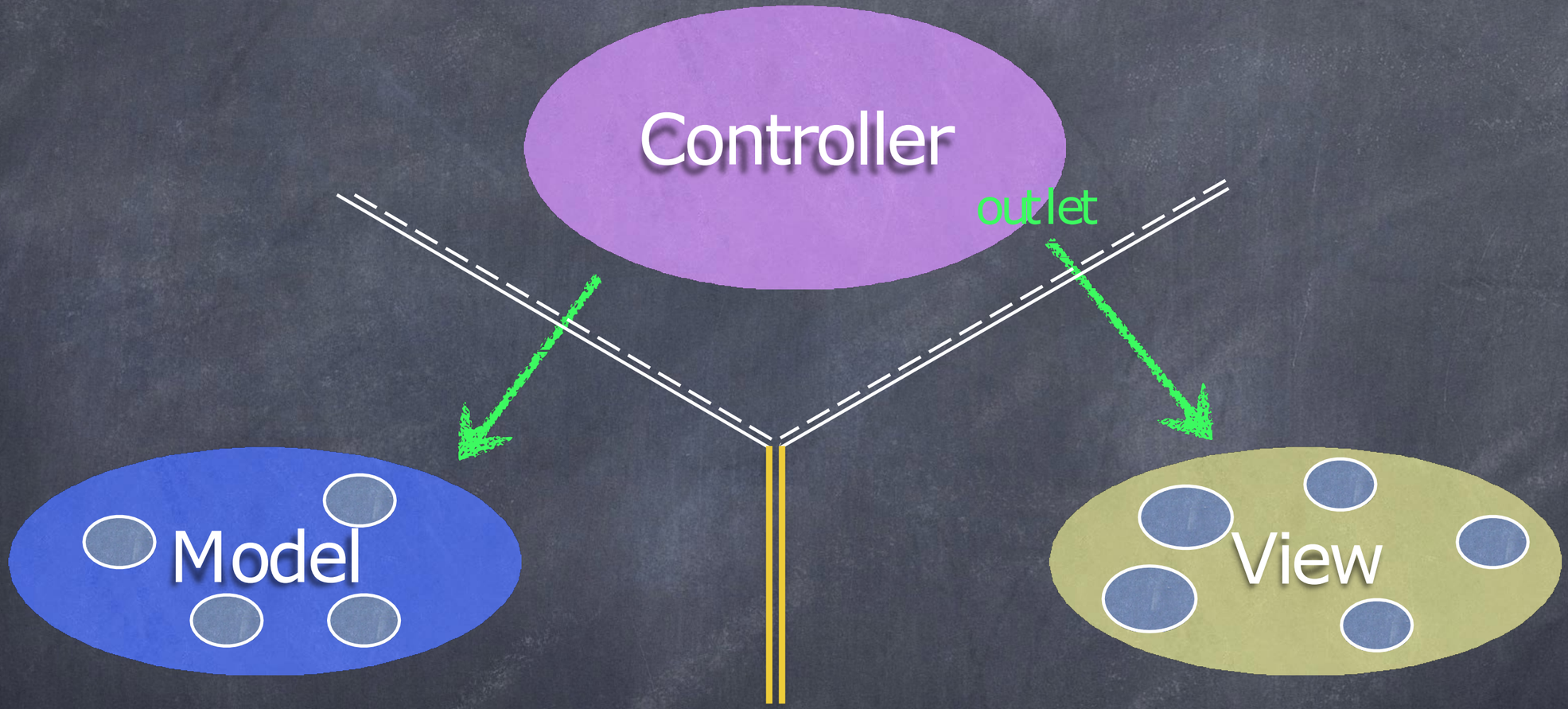

Sort of. Communication is "blind" and structured.

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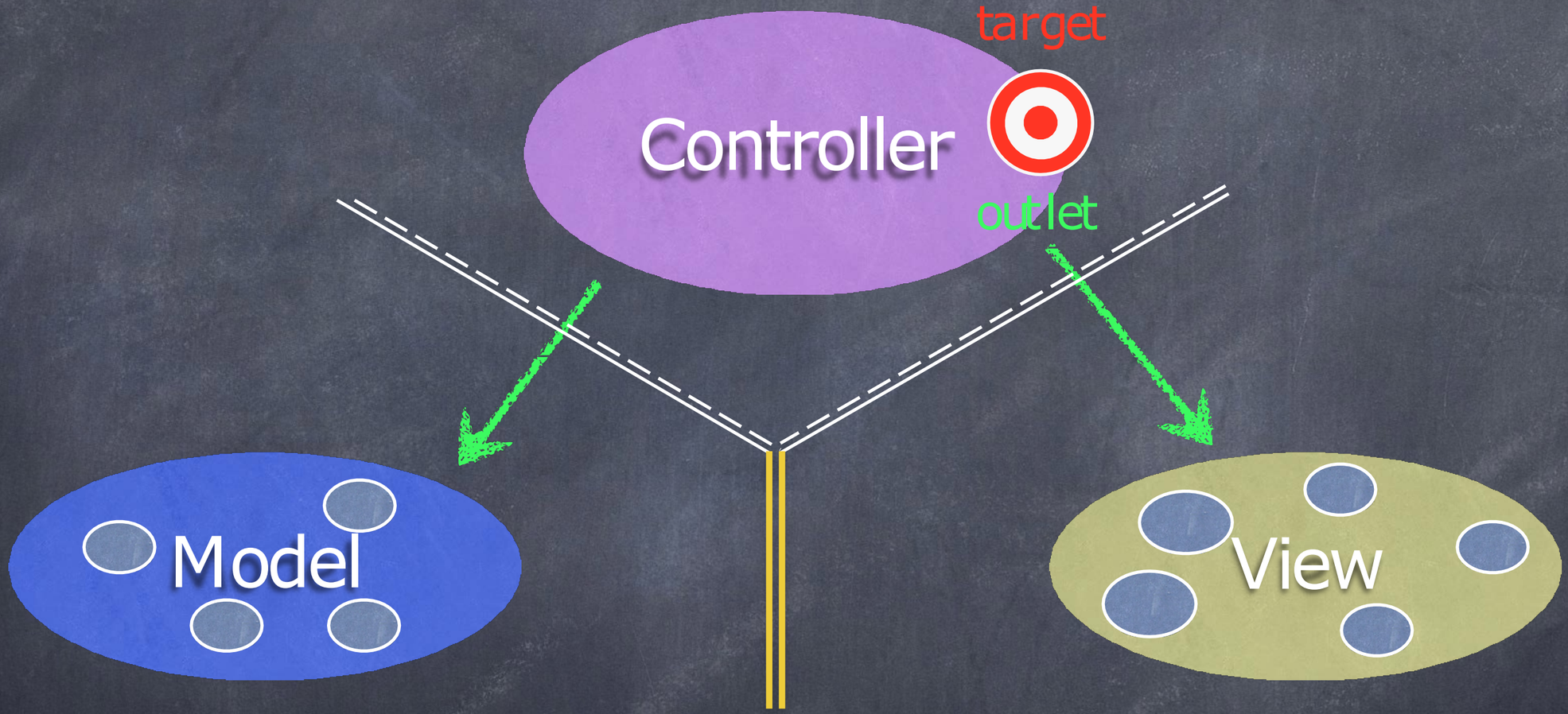

The Controller can drop a target on itself.

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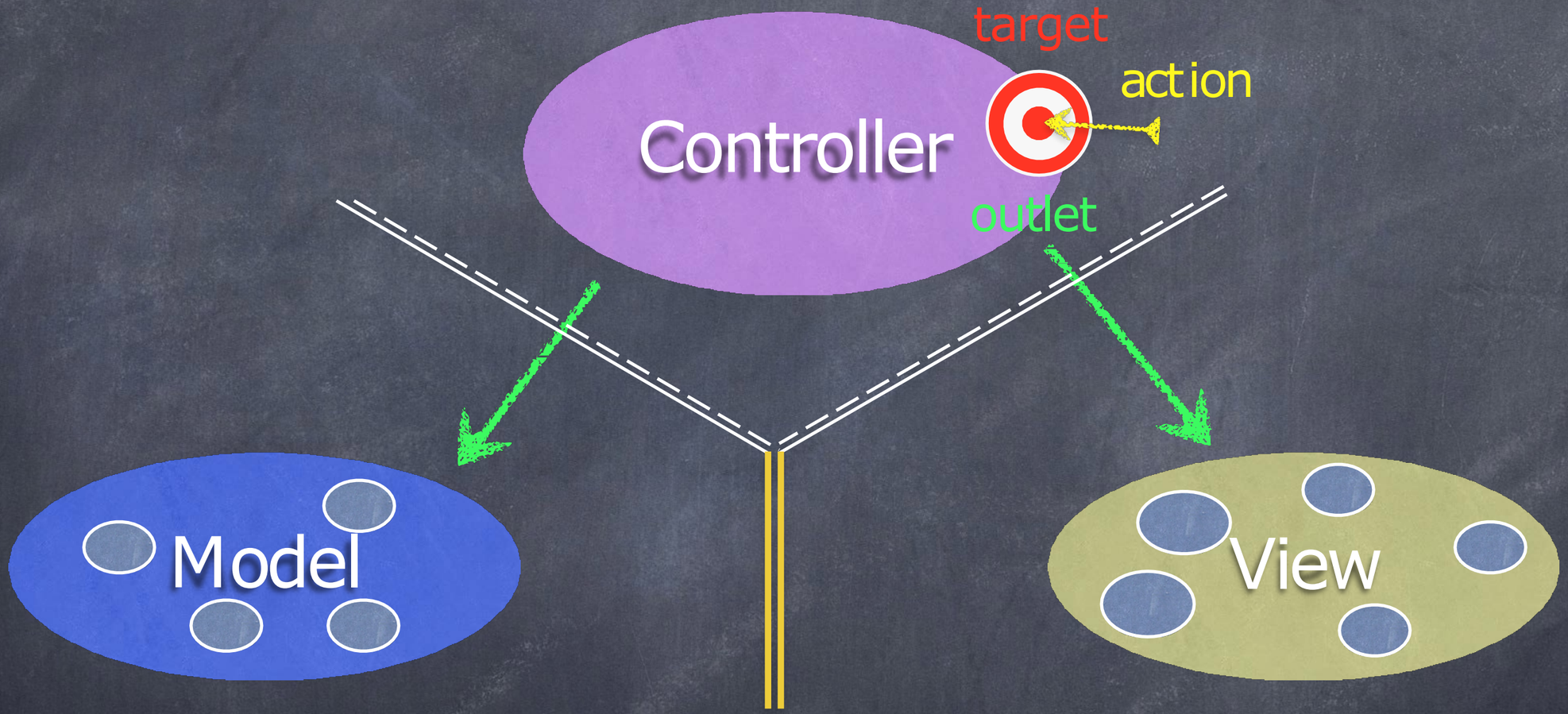
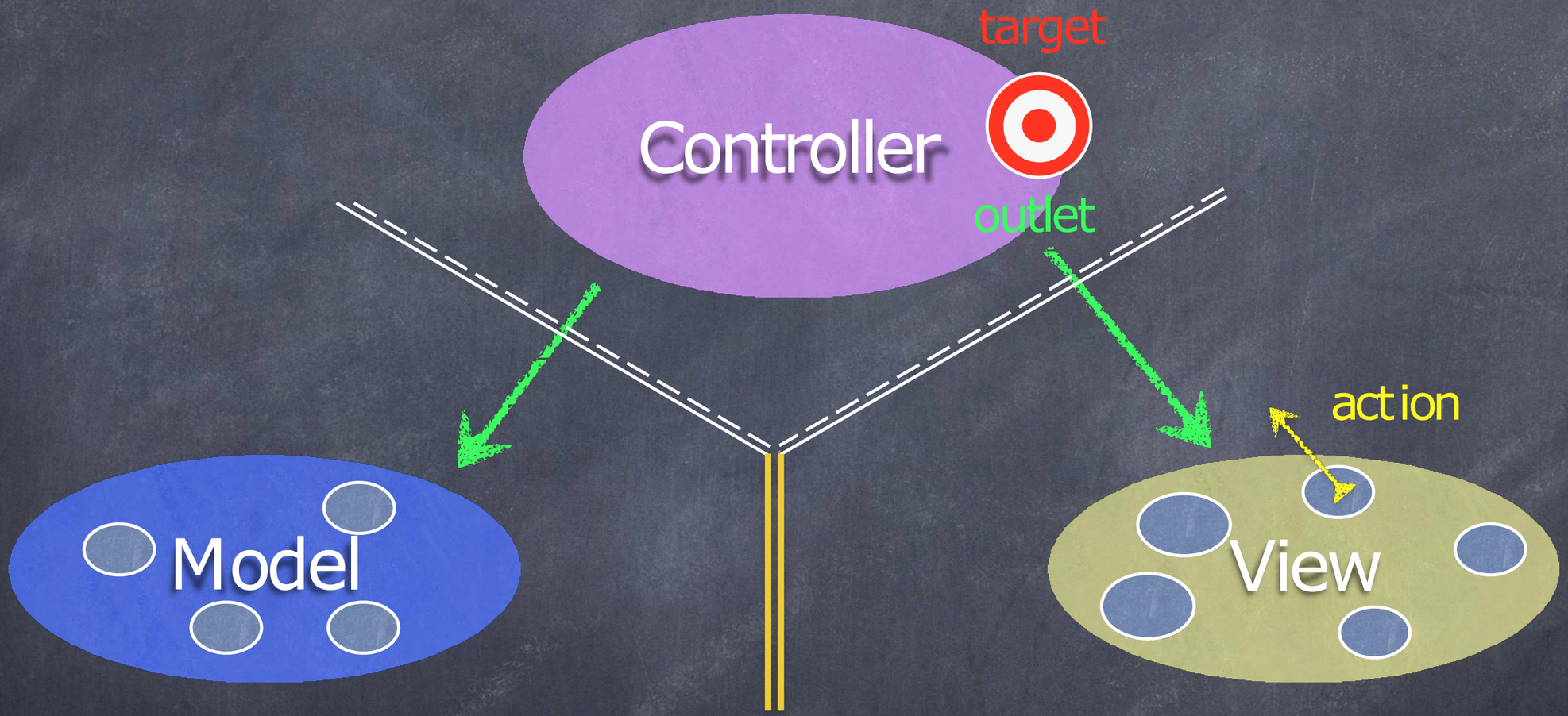


Then hand out an action to the View.

MVC



Then hand out an action to the View.

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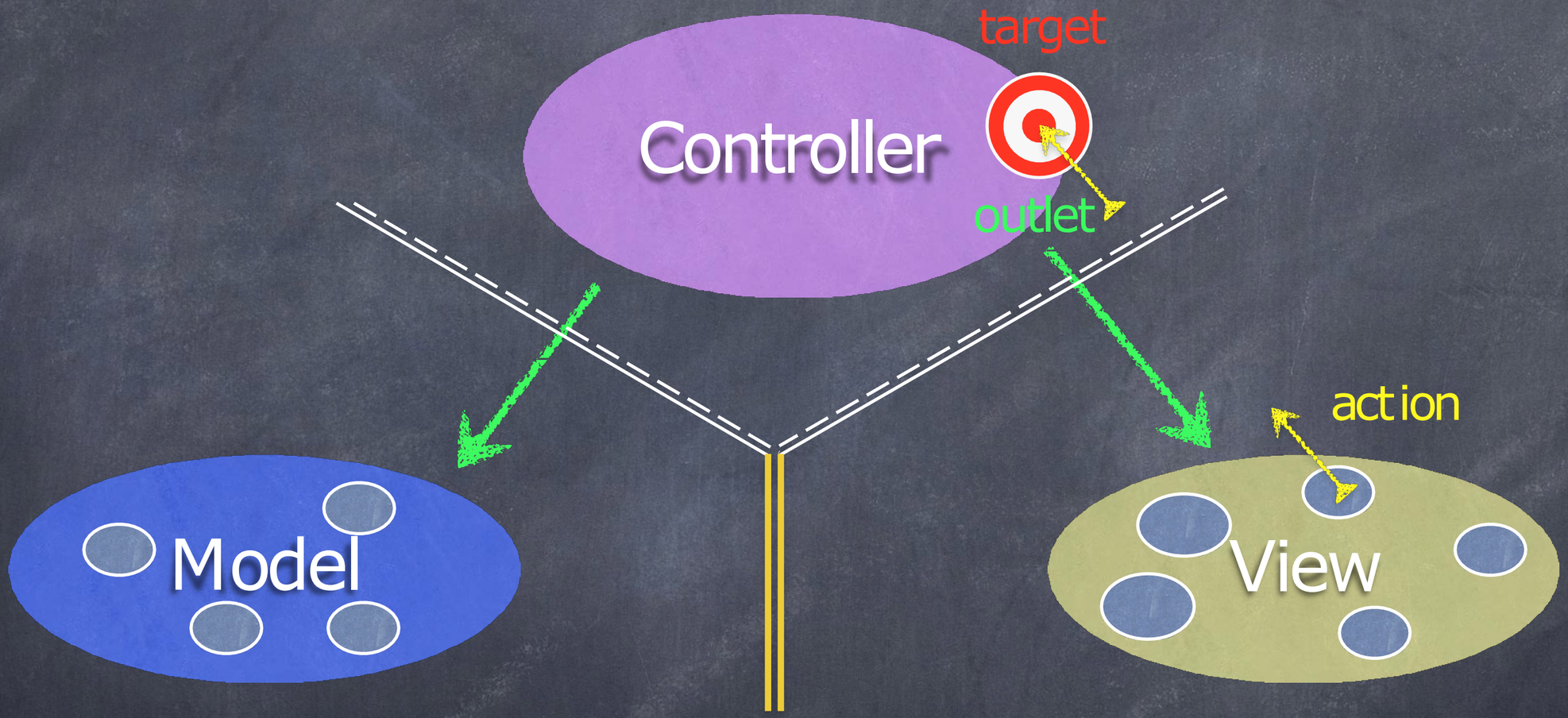
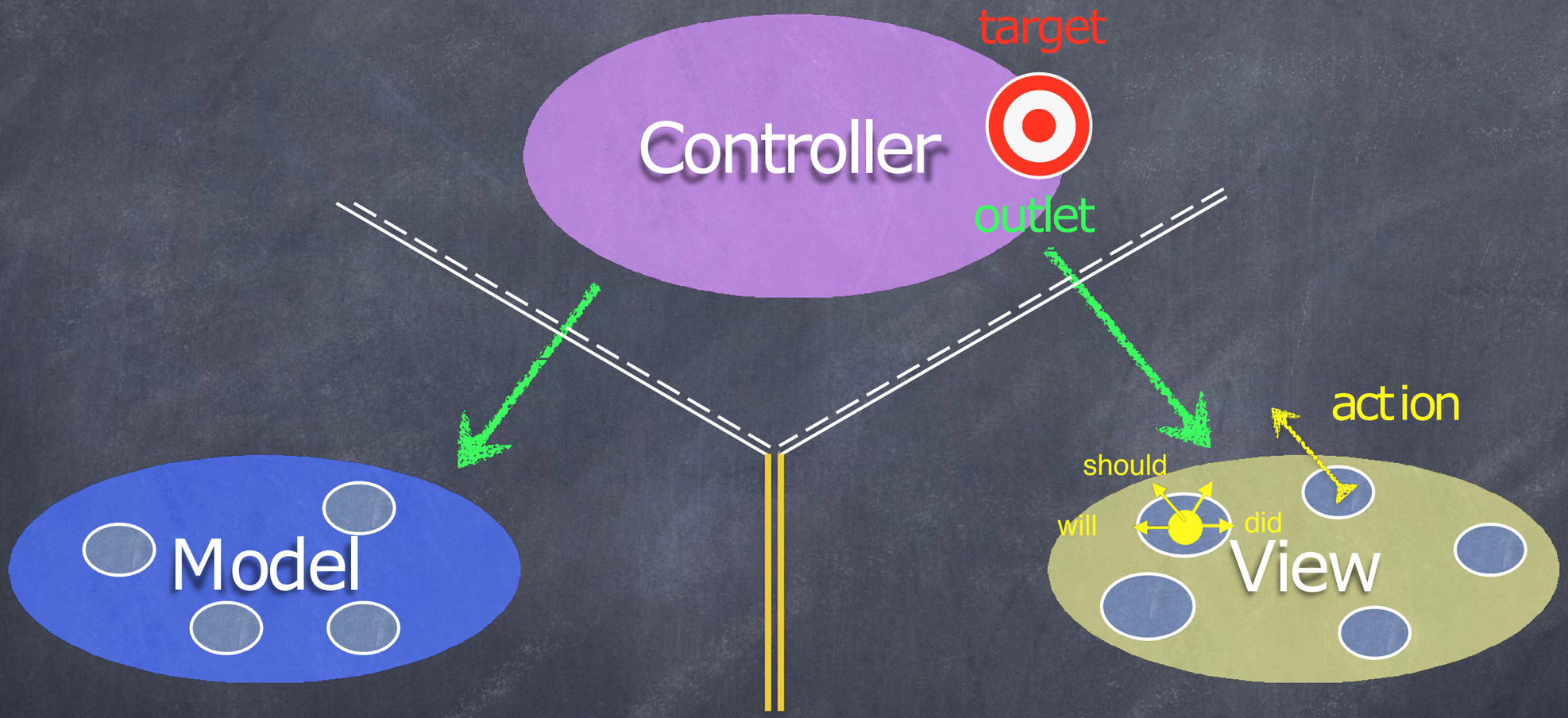


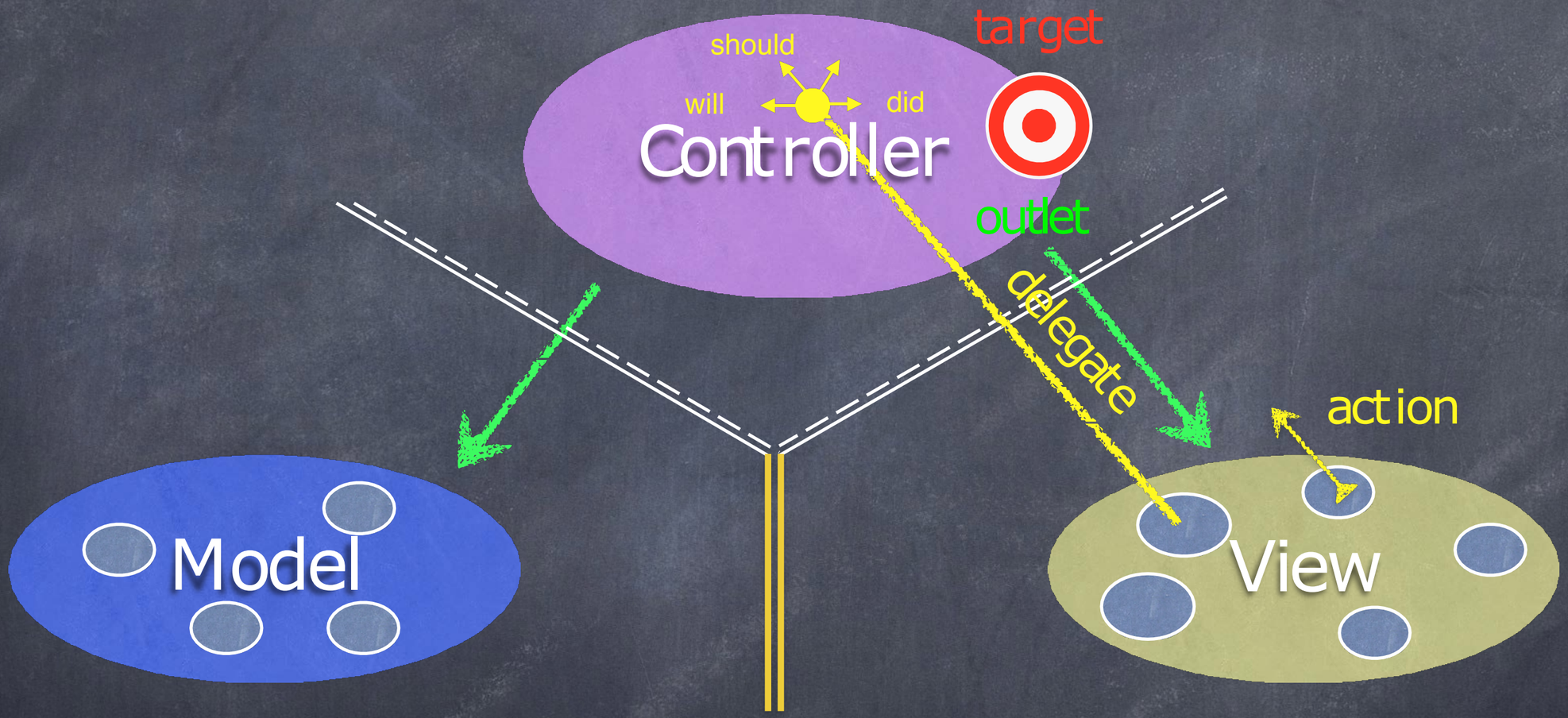
The View sends the action when things happen in the UI.

MVC



Sometimes the View needs to synchronize with the Controller.

MVC



The Controller sets itself as the View's delegate.

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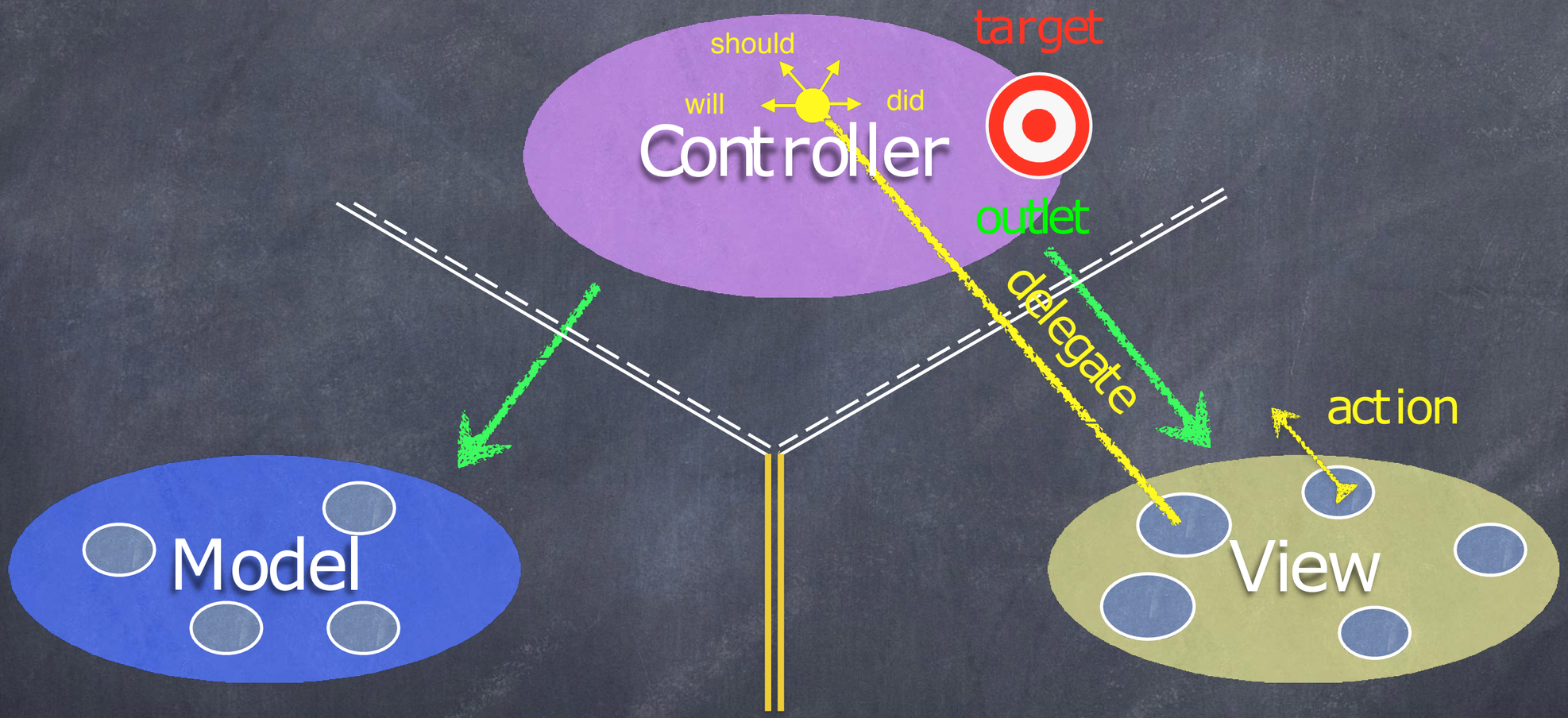

The delegate is set via a protocol (i.e. it's "blind" to class).

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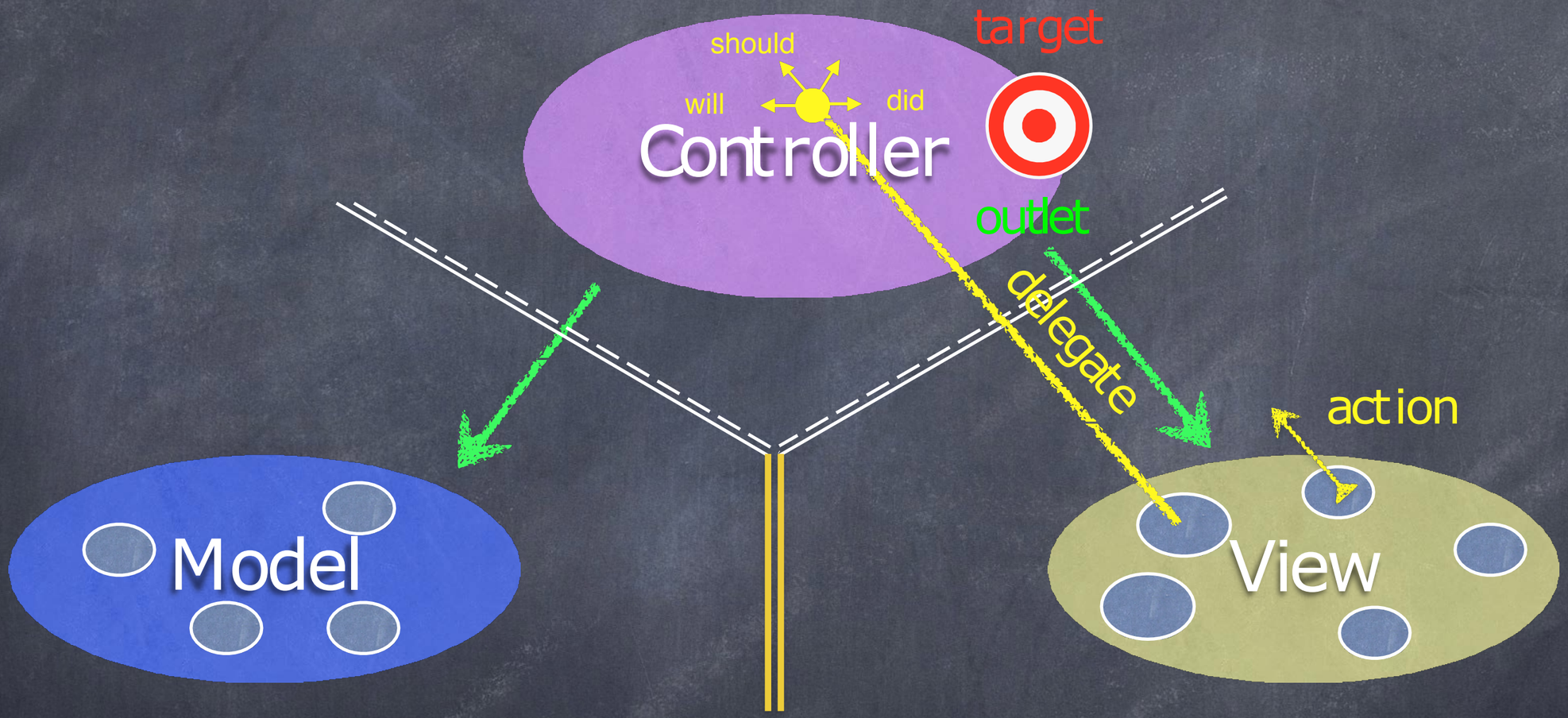
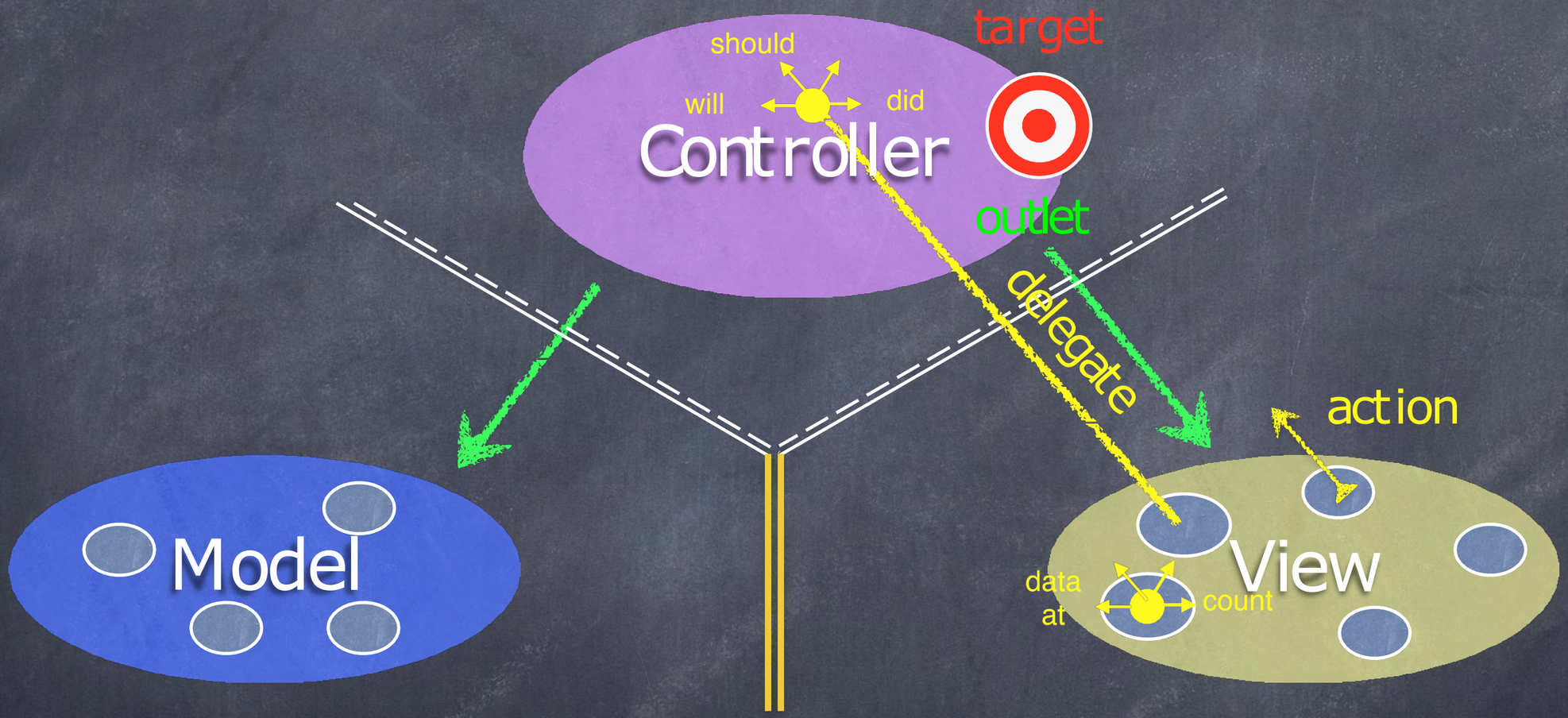


Views do not own the data they display.

MVC



So, if needed, they have a protocol to acquire it.

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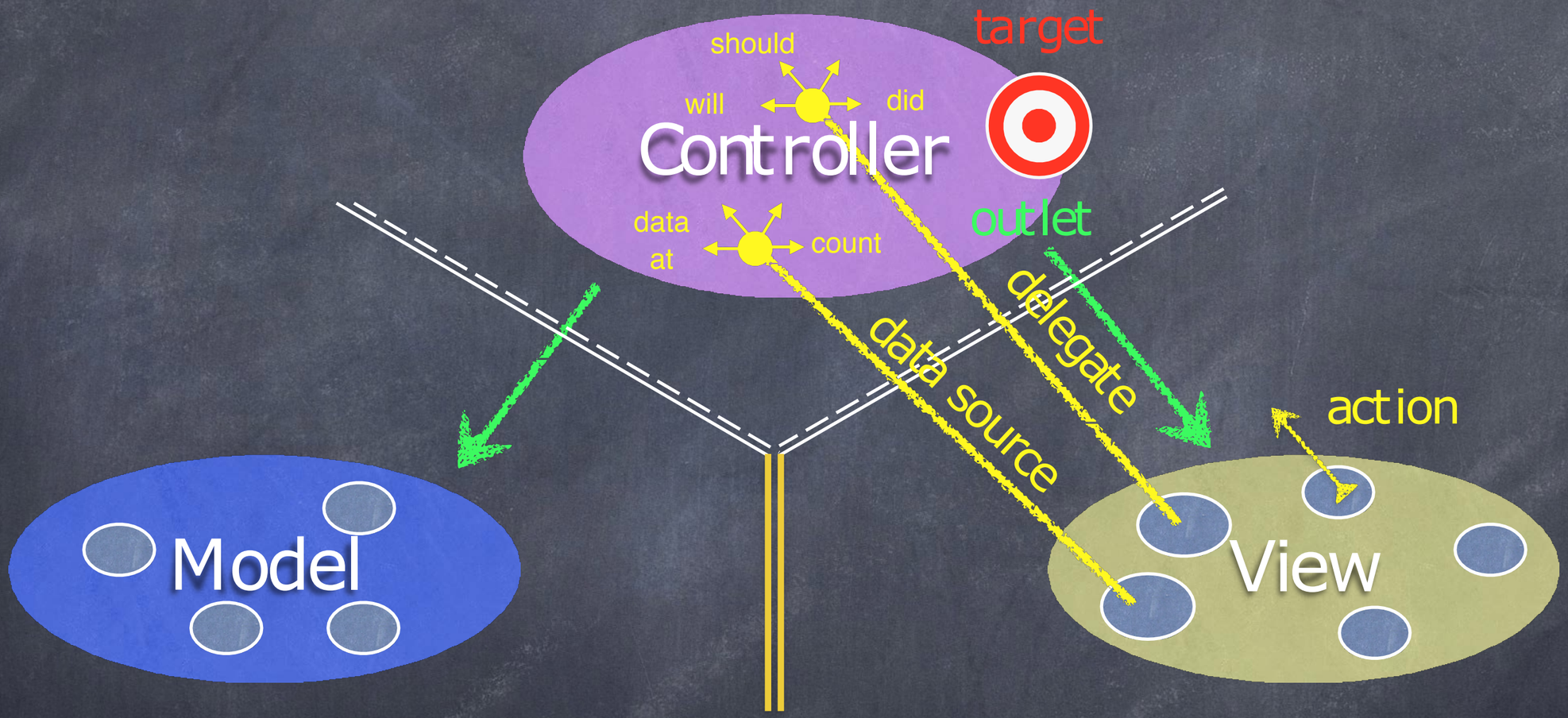
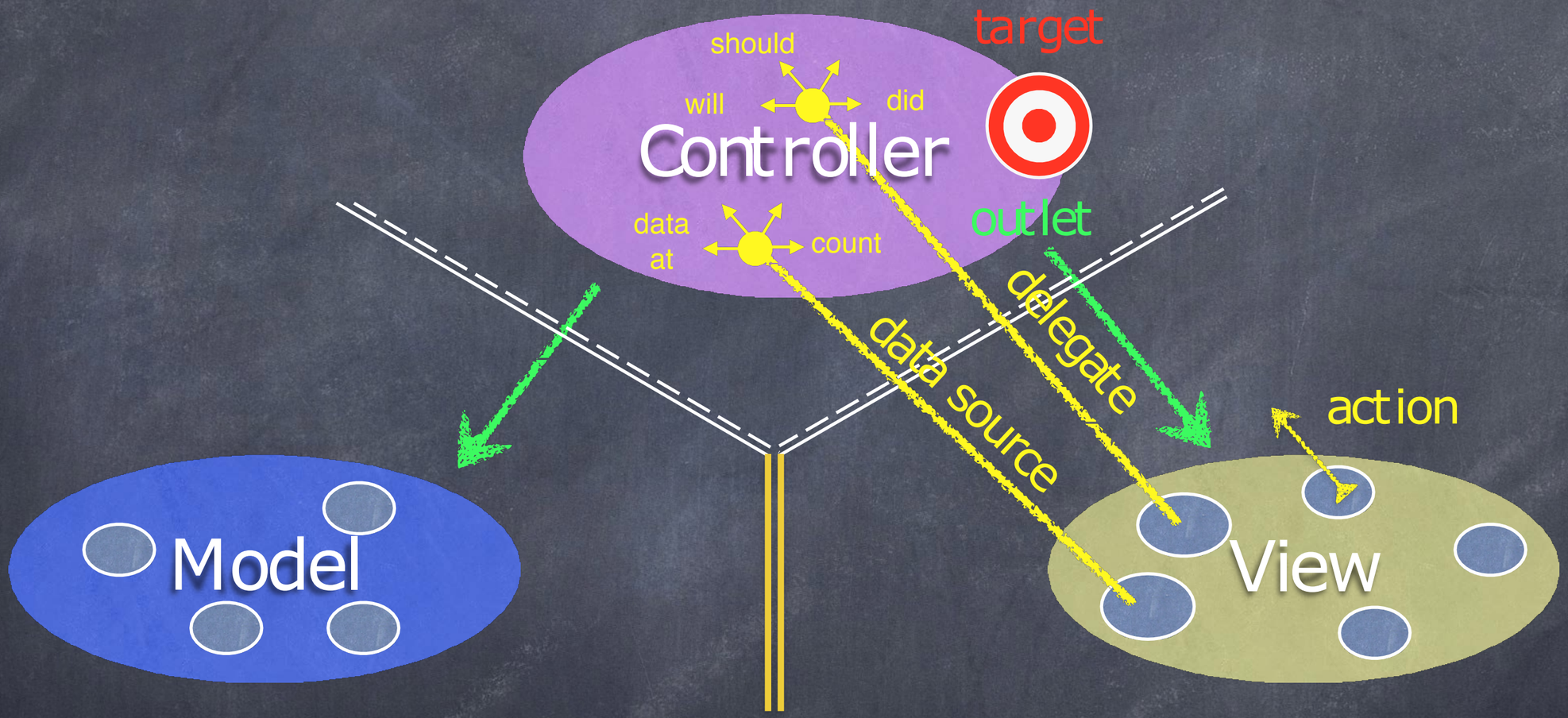


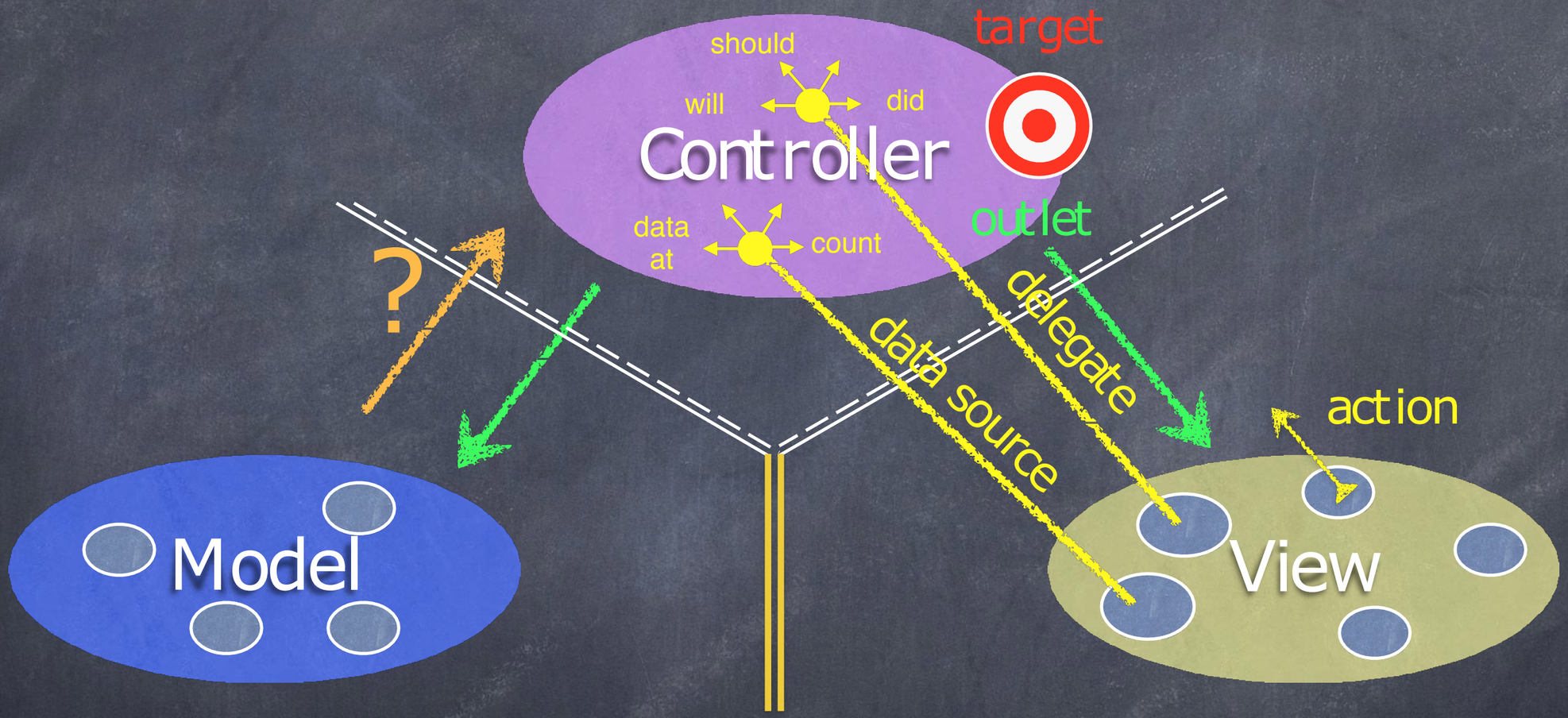
Controllers are almost always that data source (not Model!).

MVC



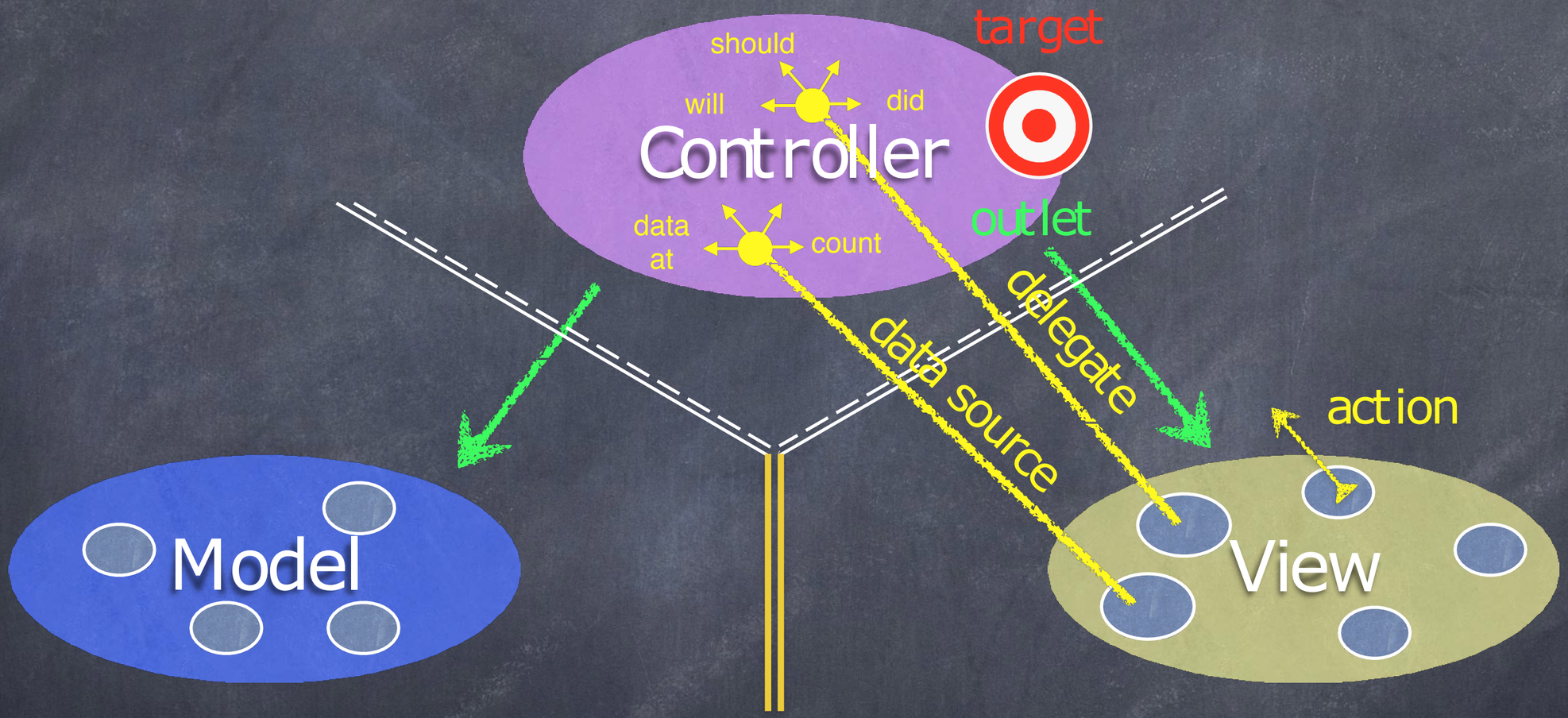
Controllers interpret/format Model information for the View.

MVC



Can the Model talk directly to the Controller?

MVC



No. The Model is (should be) UI independent.

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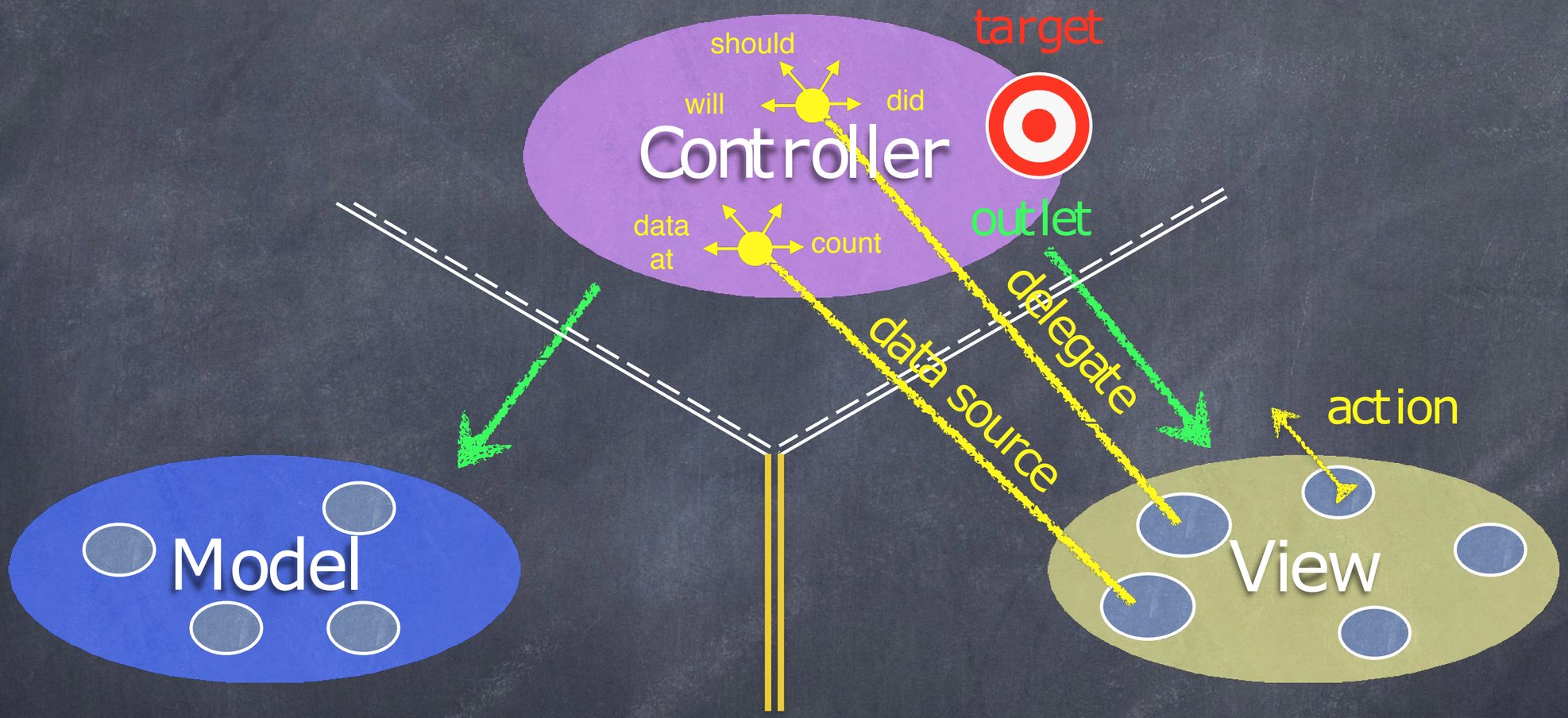

So what if the Model has information to update or something?

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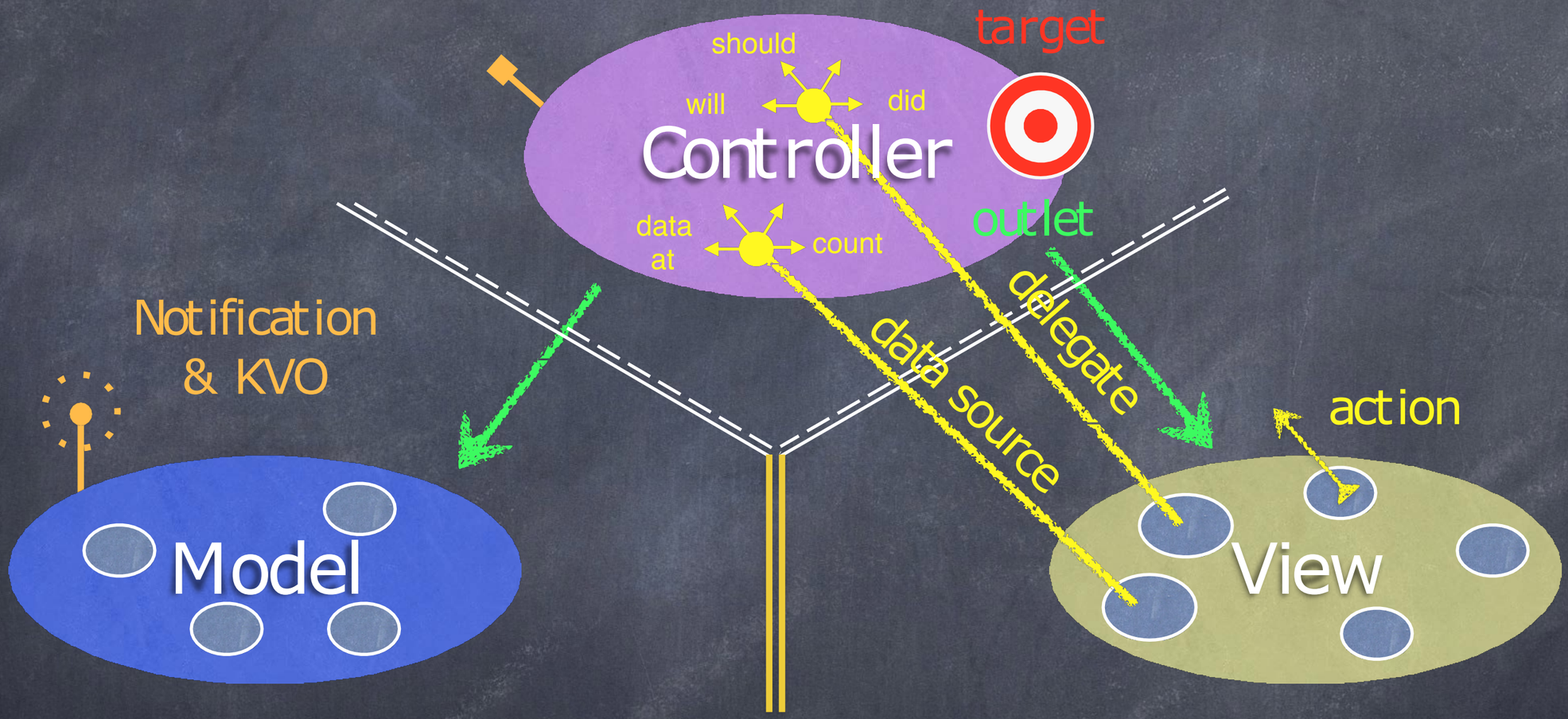
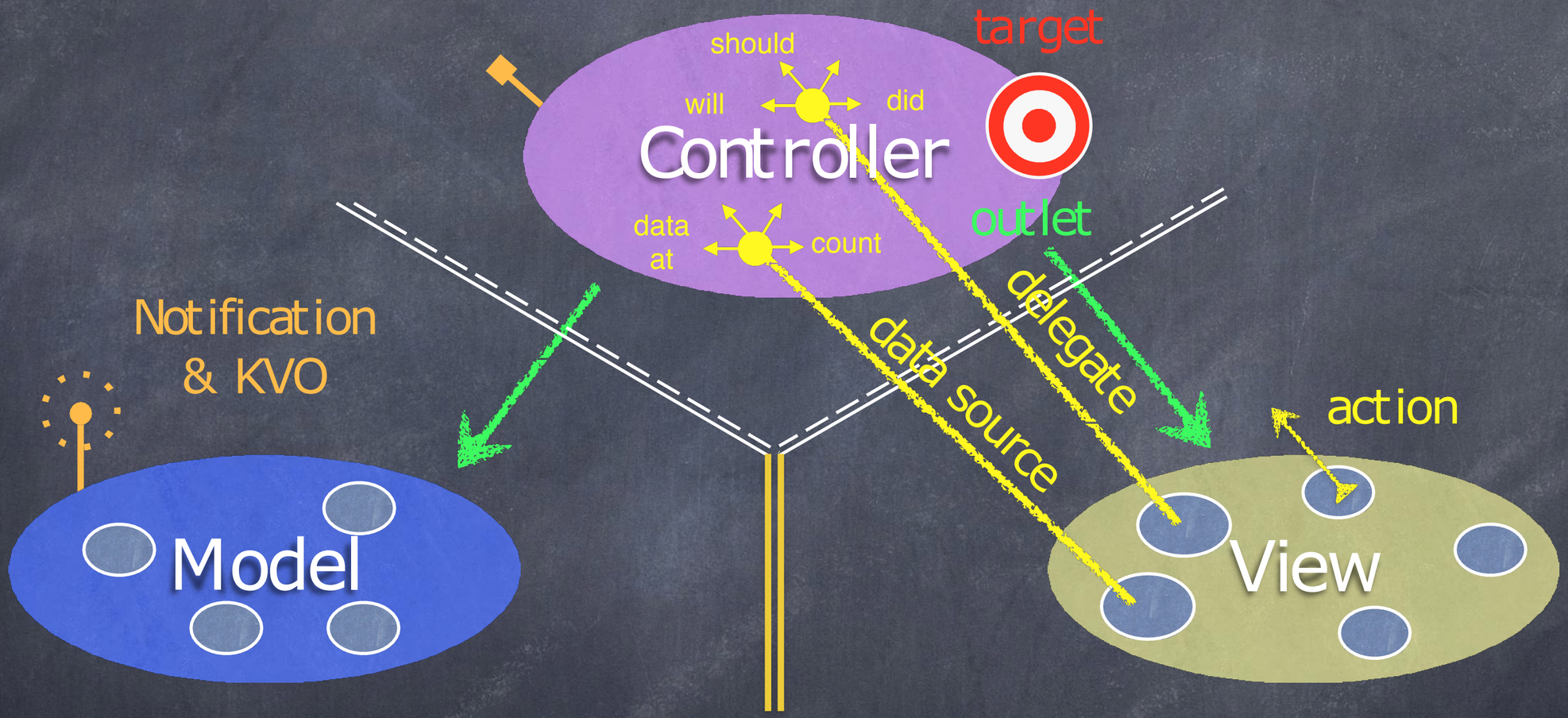


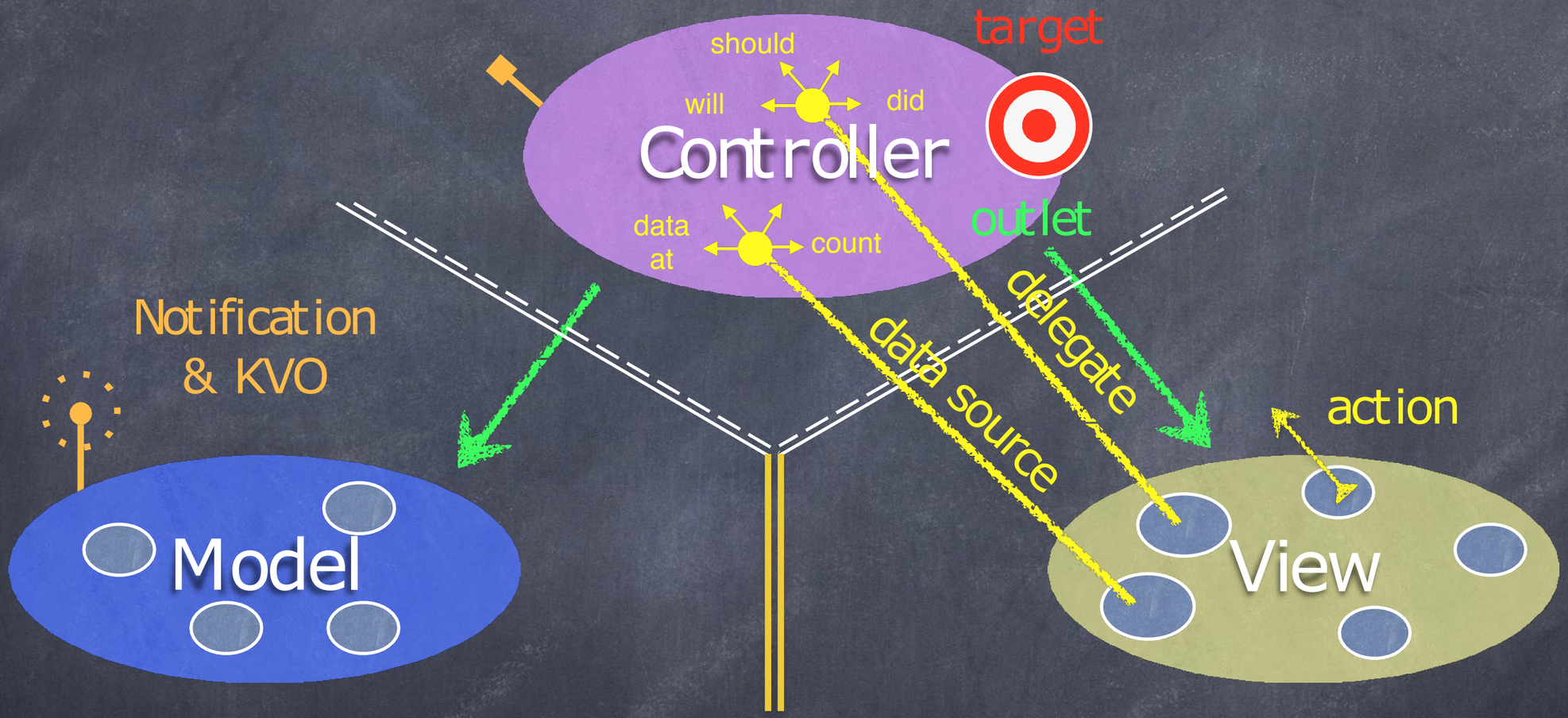
It uses a "radio station"-like broadcast mechanism.

MVC



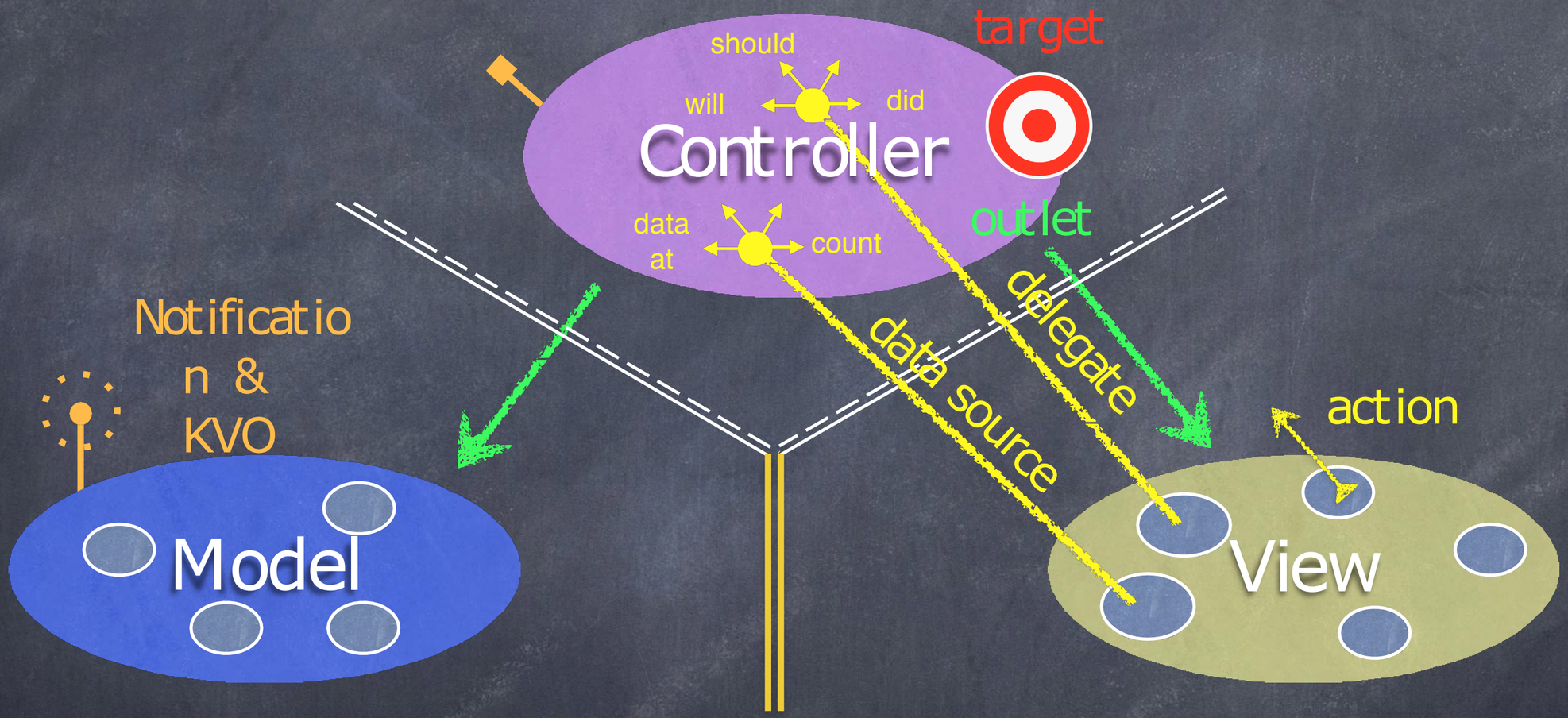
Controllers (or other Model) "tune in" to interesting stuff.

MVC



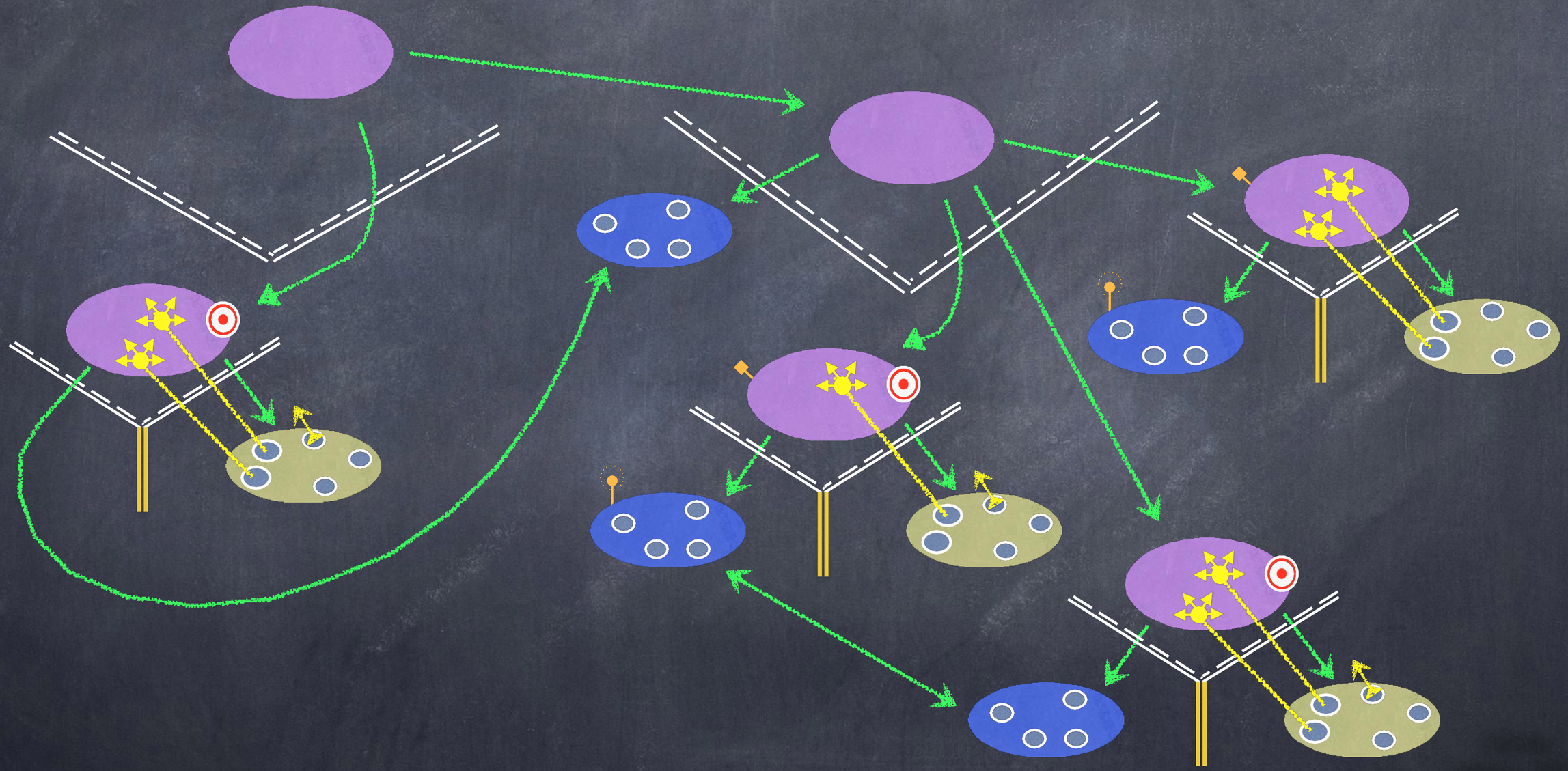
A View might "tune in," but probably not to a Model's "station."

MVC

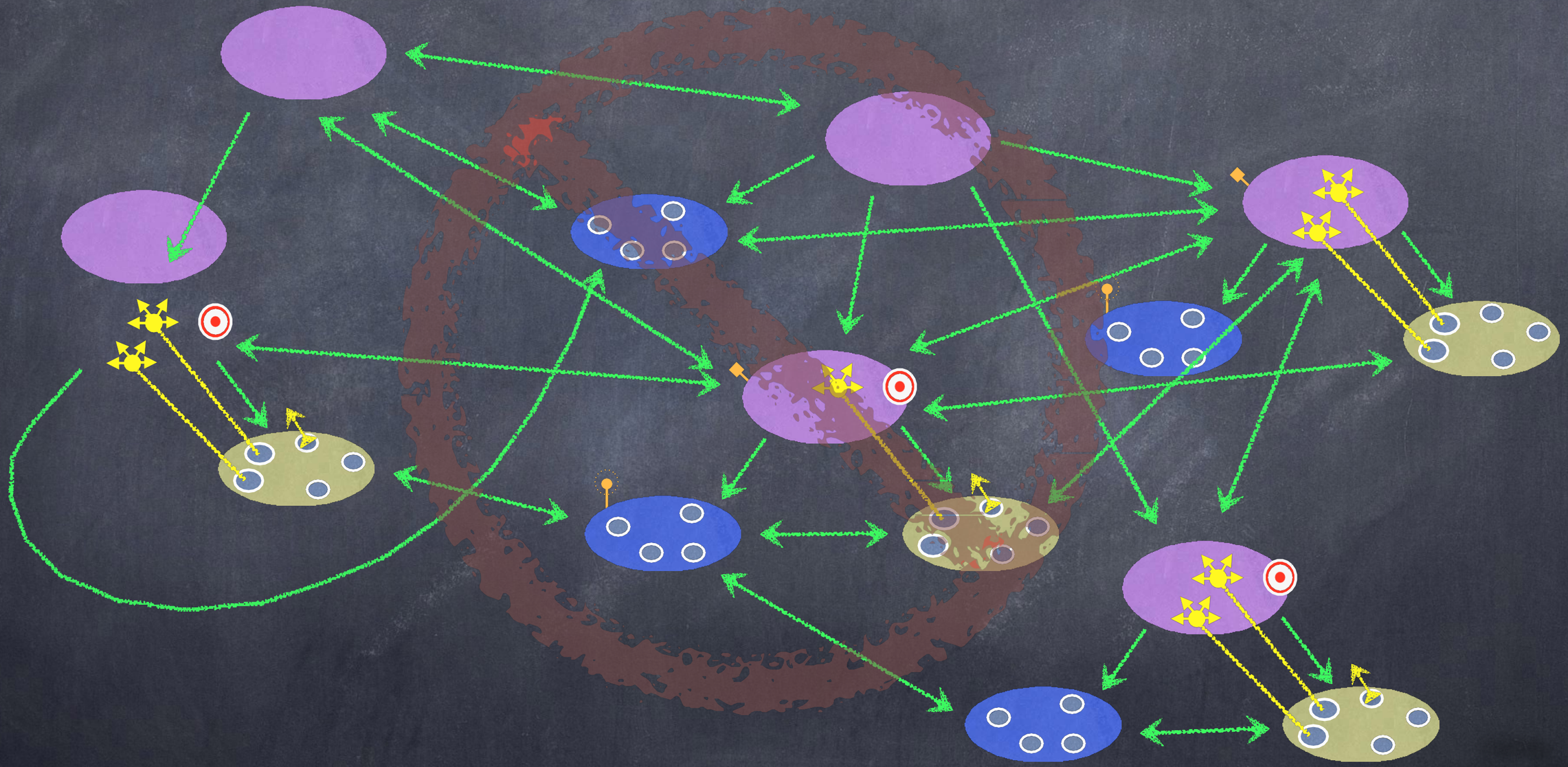


Now combine MVC groups to make complicated programs ..

MVCs working together



MVCs not working together



Demo: Calculator

- MVC
  - `struct` vs. `class` (`mutating`, etc.)
  - public versus `private` API
  - more examples of Optional
- **`Dictionary<KeyType,ValueType>`**
- **`enum`**
  - associated values
  - `switch`
  - Functions as types
  - Closure syntax for defining functions "on the fly"
- **`UIStackView`**
  - First peek at Autolayout (stick things to the edges)

真机测试

- 免开发者账号（XCode 7以后）
- Apple ID
  - 邮箱
- iOS SDK 支持
  - /Applications/Xcode.app/Contents/Developer/Platforms/iPhoneOS.platform/DeviceSupport

步骤1 添加Apple ID

1. “Xcode” >> “Preferences” >> “Accounts” >> “＋”

2. “Apple IDs” >> “View Details”

3. iOS development 和 Mac development， create

4. Done

Provisioning Profiles 可能为空，因为未接真机

步骤2 连接真机

- 用数据线连接手机
- Navigator >> 项目 >> general >> Team
- “Xcode” >> “Product”>>”Destination” >> iPhone
- ToolBar >> Build and Run

步骤3 手机权限

- 手机添加信任
  设置→通用→（访问限制→）设备管理，
  选择信任之前添加的Apple ID

- 点击桌面，打开APP