

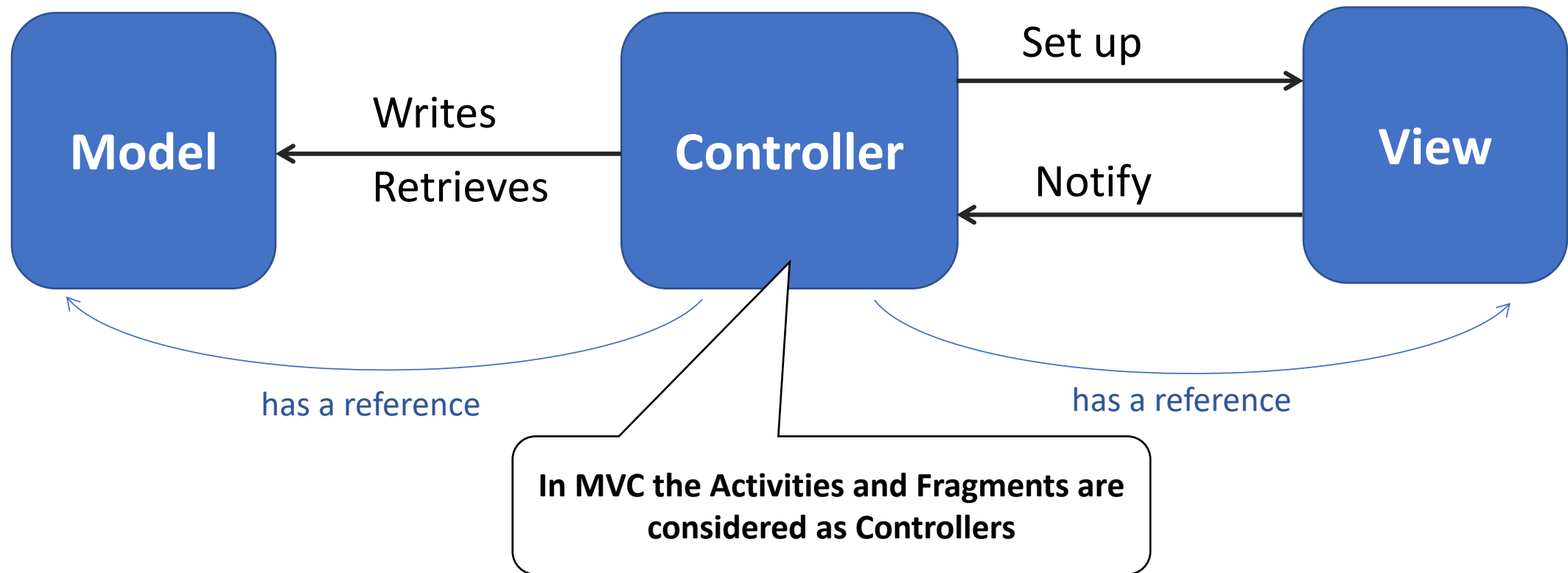
# Architecture Patterns

MVVM - Model View ViewModel Architecture

# Comparison of three Architecturs

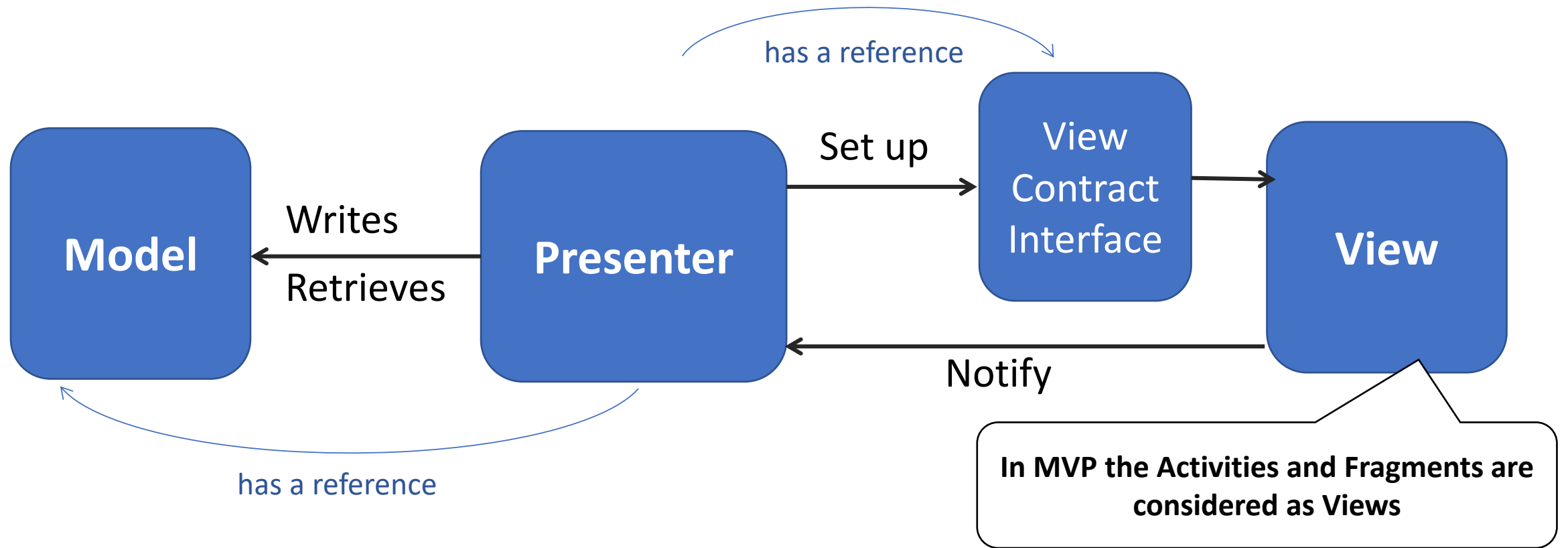
- MVC      Model View Controller
- MVP      Model View Presenter
- MVVM    Mode View ViewModel

# MVC Model View Controller



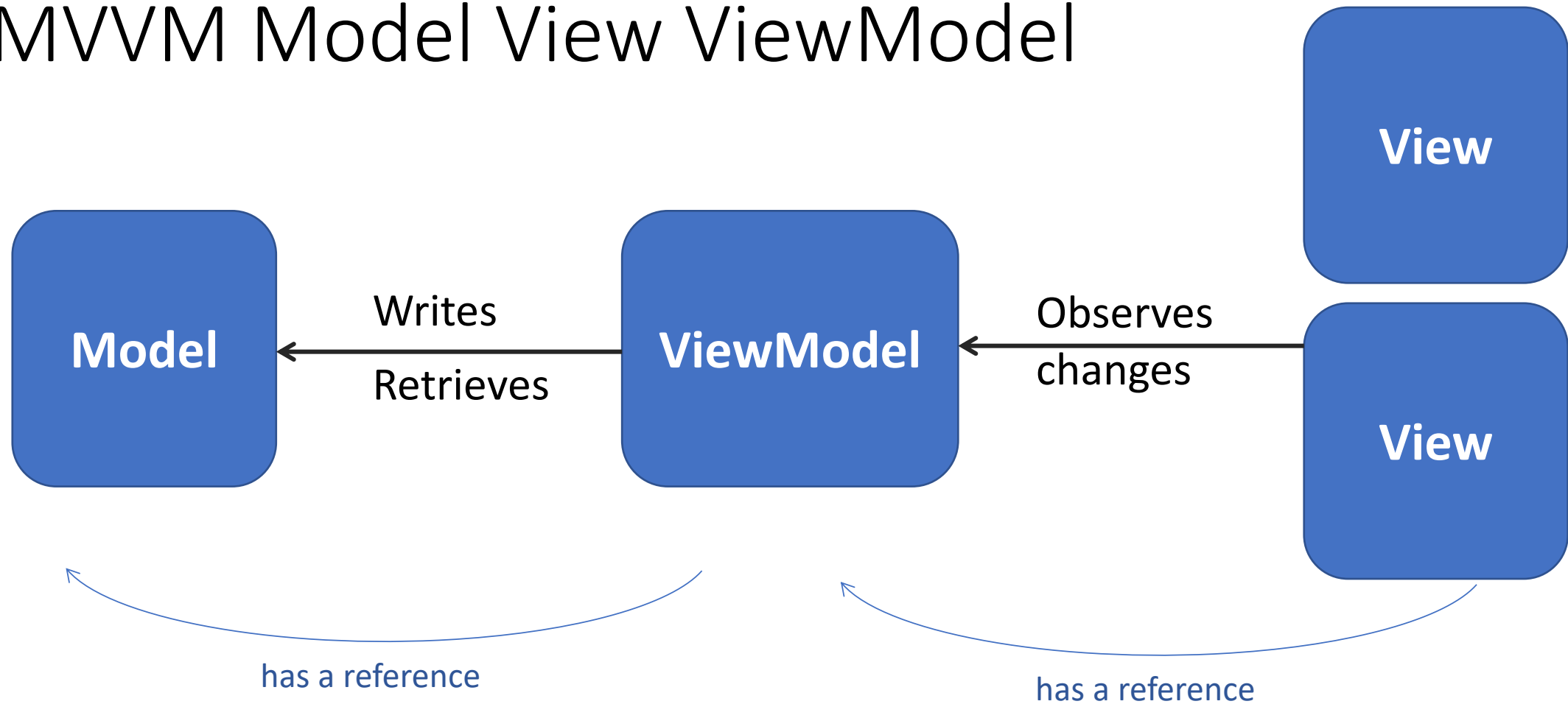
- Drawbacks: Testability, Flexibility and Maintainance

# MVP Model View Presenter



- Drawbacks: Maintainability

# MVVM Model View ViewModel



- Attention in the ViewModel:
  - Expose States instead of Events - have one ViewState and not several
  - Everything should go through the ViewModel

# MVVM Architecture

- The ViewModel does not know which View consumes the data
- The View consumes the data and listens to changes
- => We have to use **LiveData** (part of Android Architecture Component) or **RXKotlin**

# MVI Model View Intent

- Another Pattern which we don't cover in this course
- More information on:

<http://hannedorfmann.com/android/model-view-intent>

<https://medium.com/@fnberta/mvi-on-android-20677f80df55>

# Quellen und Links

- <https://academy.realm.io/posts/eric-maxwell-mvc-mvp-and-mvvm-on-android/>
- <https://medium.com/upday-devs/android-architecture-patterns-part-3-model-view-viewmodel-e7eeee76b73b>