Rich Client

DESIGN PATTERNS

What is a Rich Client?

A **stateful application** that uses **client-side business logic** in order to provide the user with an **improved experience.**

MVC

MVP

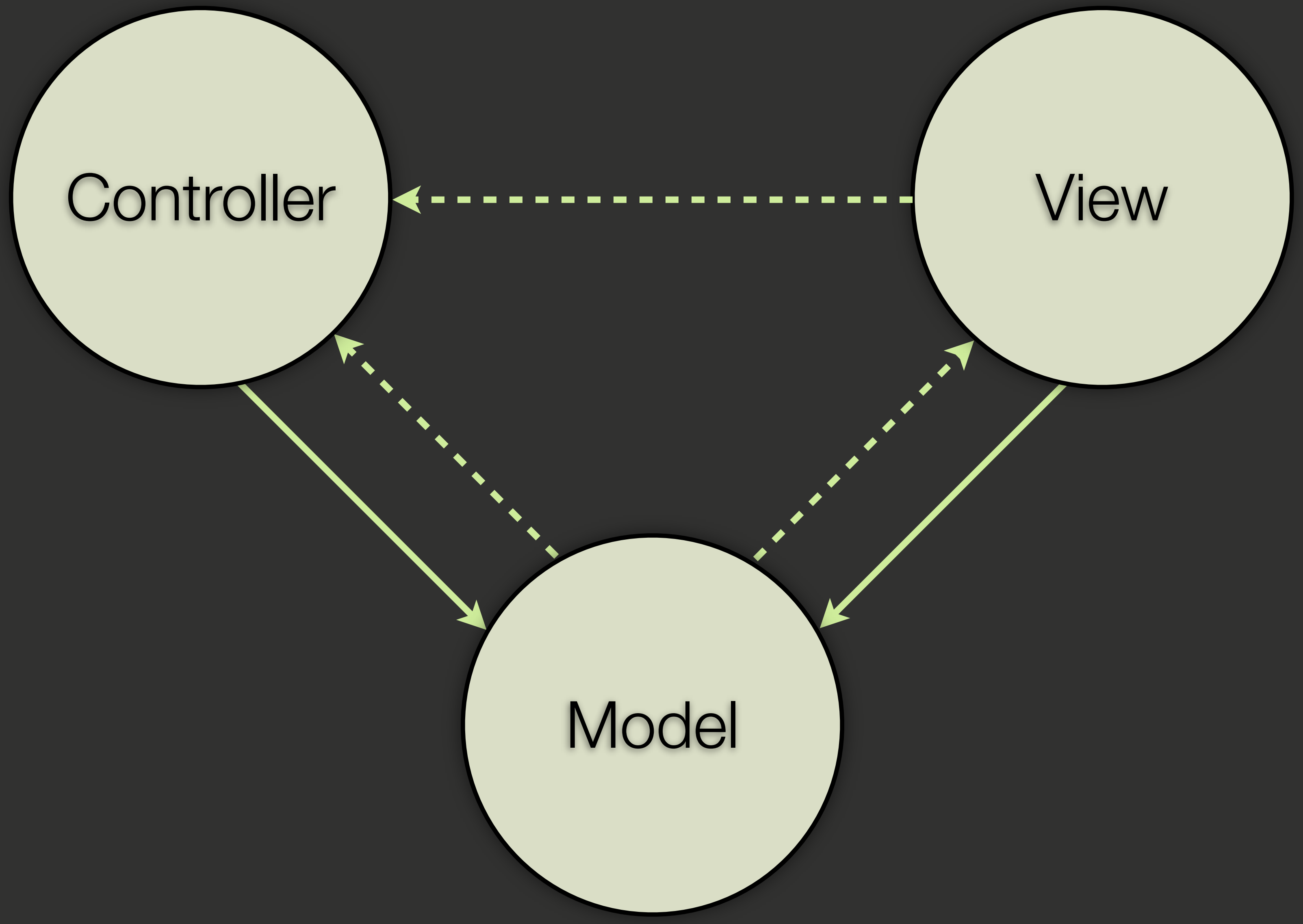
MVVM

MVC

MVP

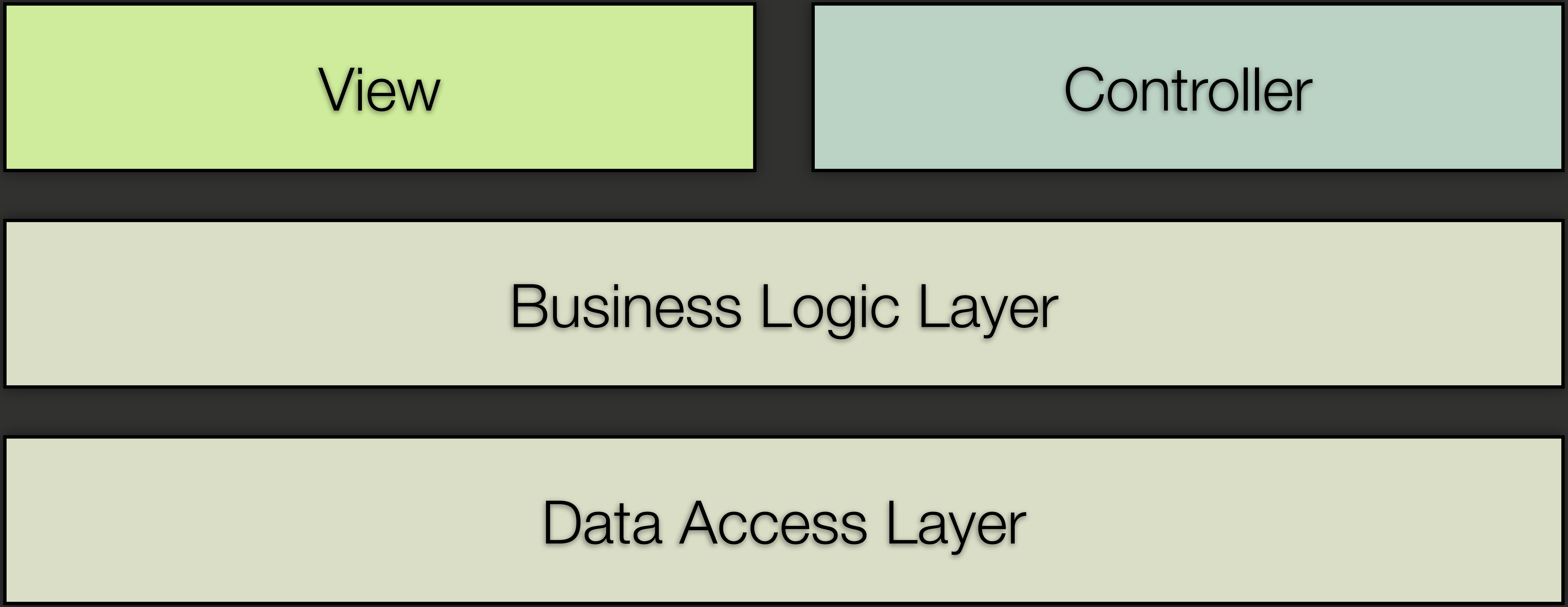
MVVM

Communication



Architecture

MVC



View

Controller

Business Logic Layer

Data Access Layer

Key Points

Reuse through nested view/controller pairs

Observer and strategy patterns decrease coupling

Tied directly to domain model

View code can be difficult to test

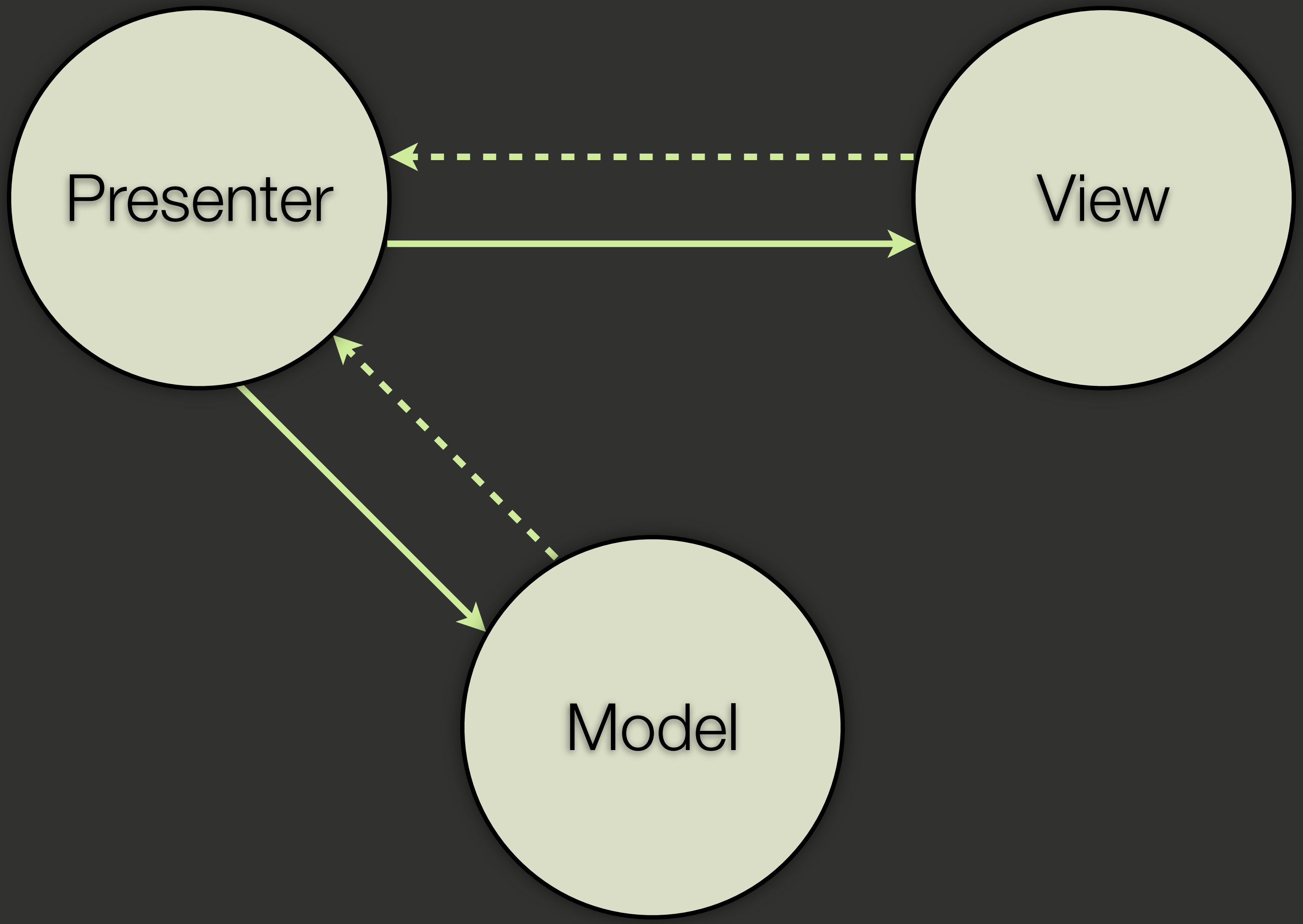
MVC

MVP

MVVM

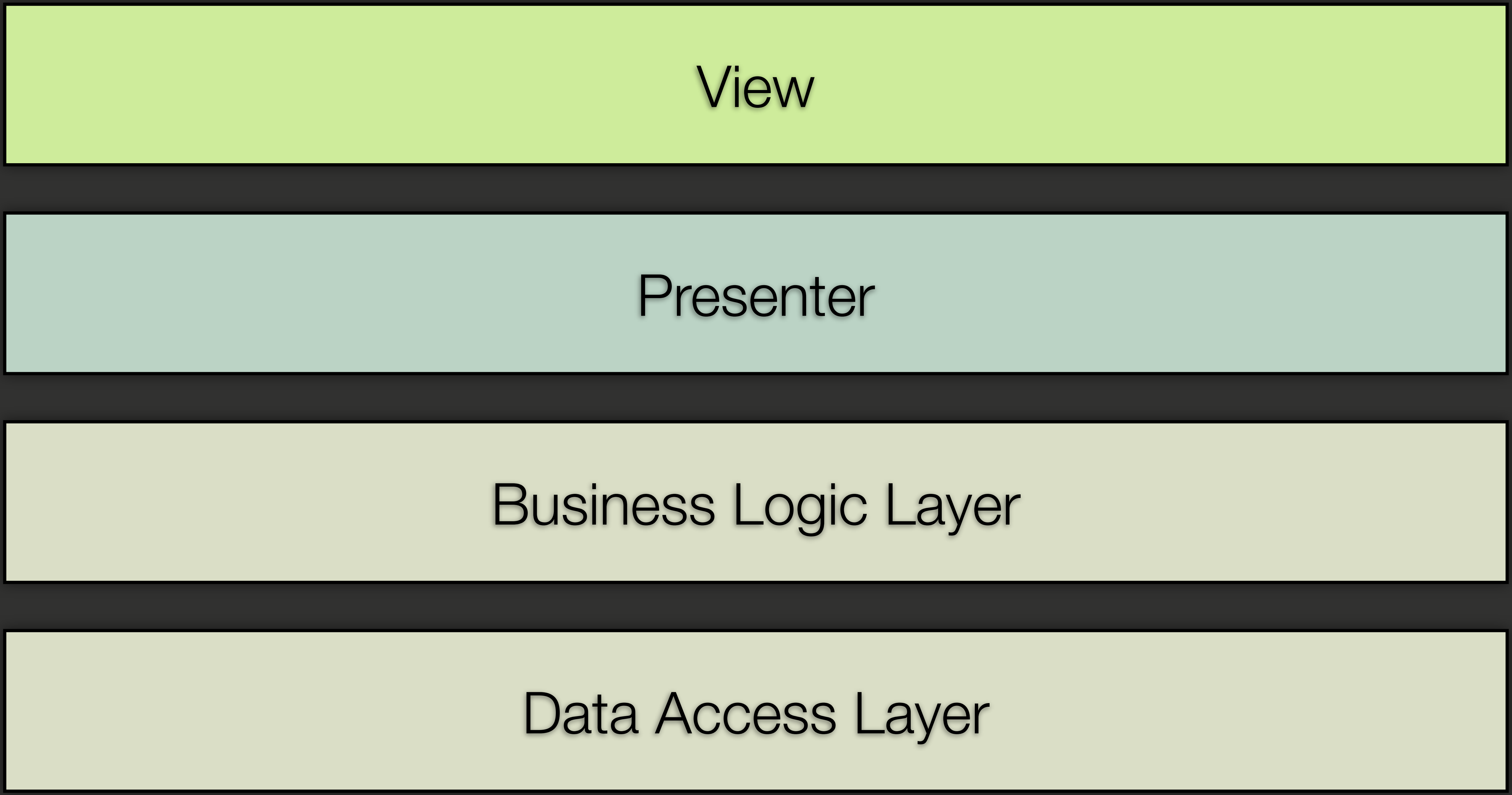
Communication

MVP



Architecture

MVP



View

Presenter

Business Logic Layer

Data Access Layer

Key Points

Reuse by using presenter with multiple views

More obvious interaction than MVC

View decoupled from domain model

Mockable views for easier testing

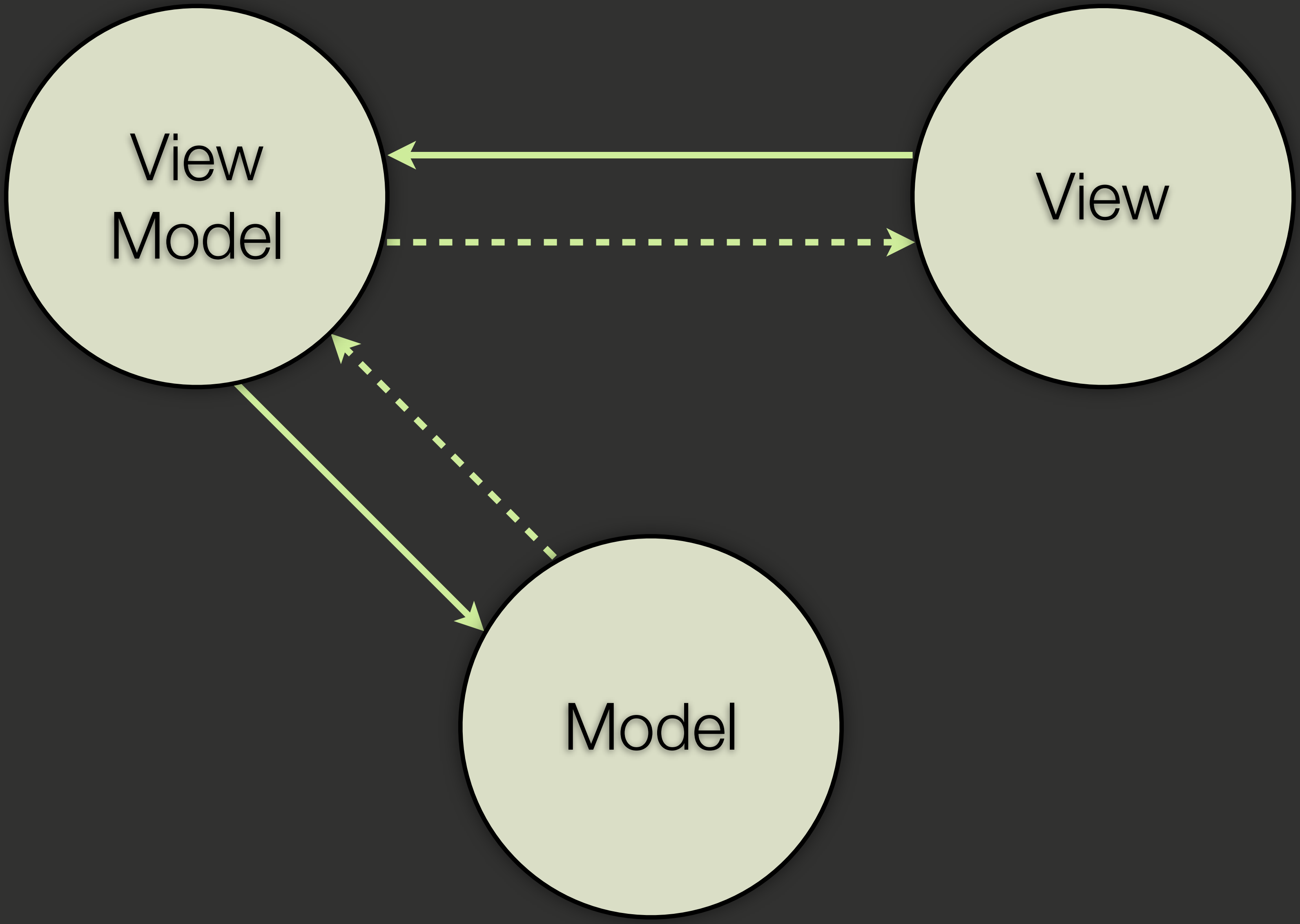
MVC

MVP

MVVM

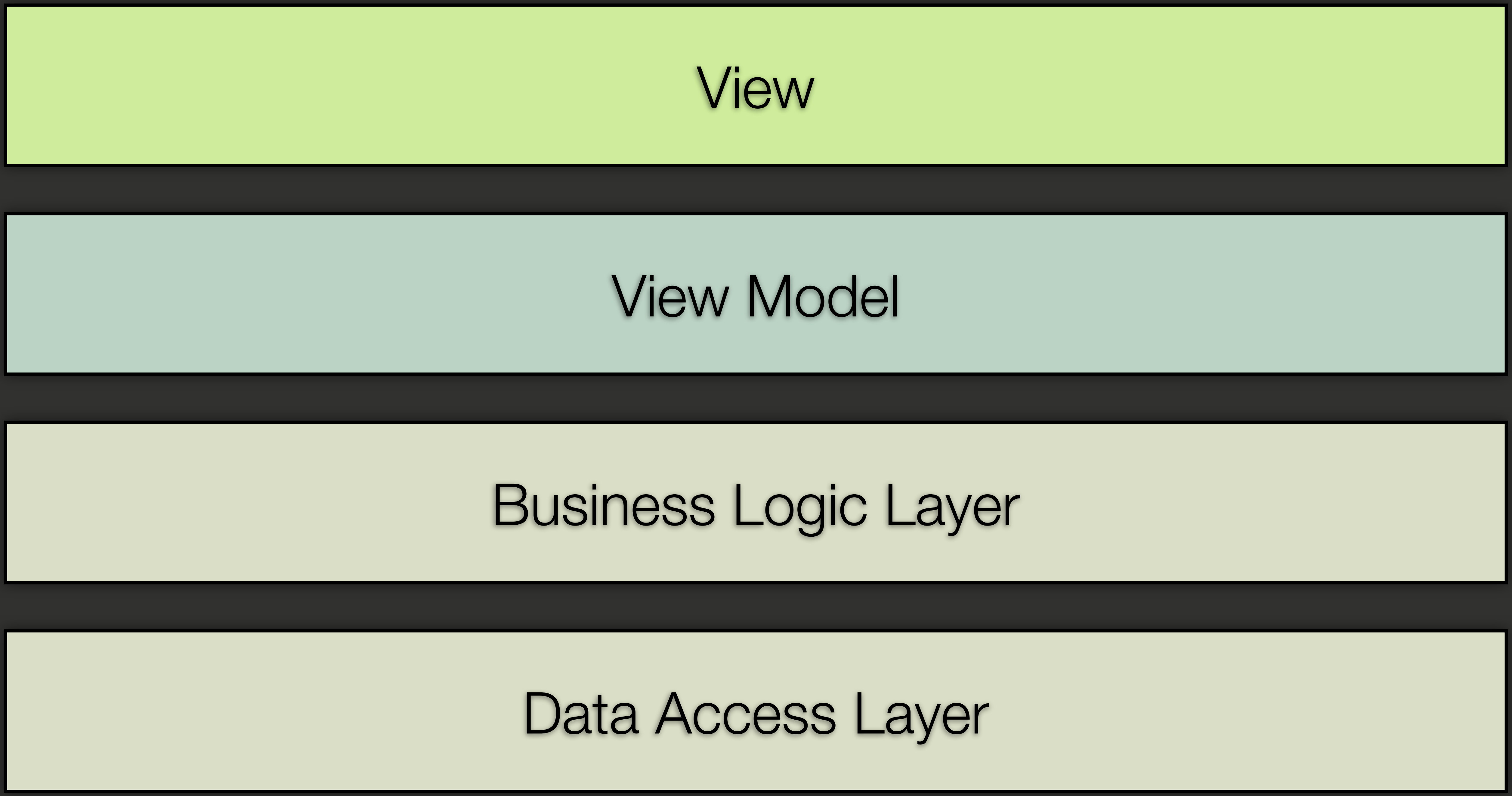
Communication

MVVM



Architecture

MVVM



View

View Model

Business Logic Layer

Data Access Layer

Key Points

Reuse through nested views

Observer pattern decreases coupling

View decoupled from domain model

View model is easily testable

Any Questions?