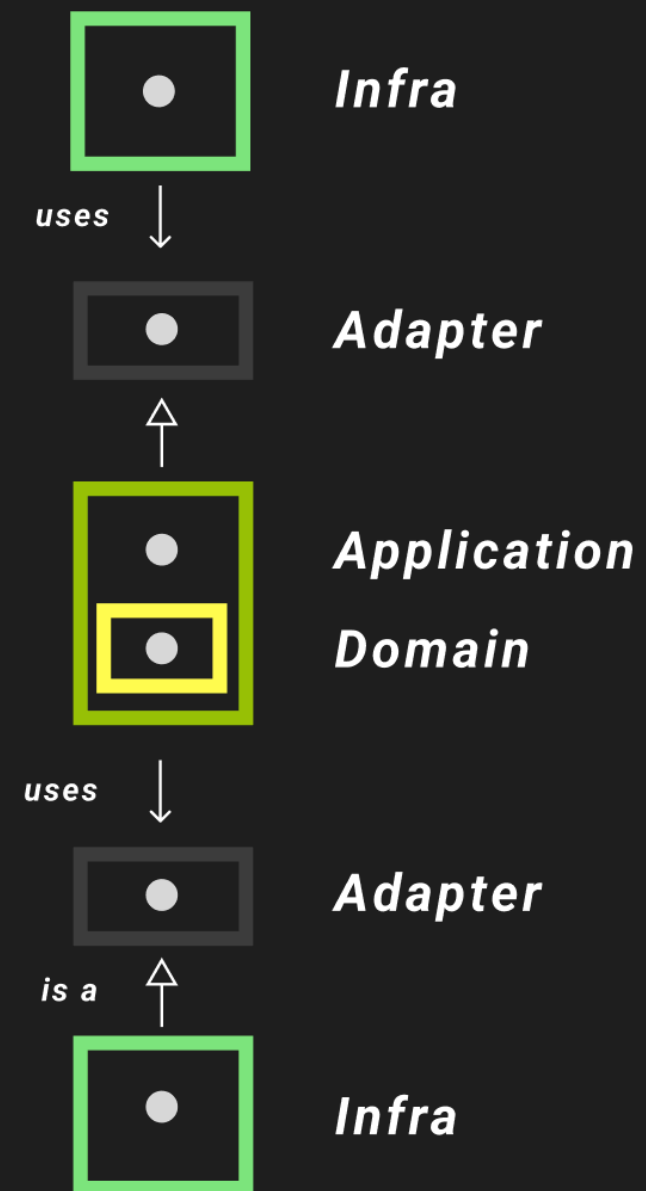




# Physical Essential: Horizontal Decoupling



## Physical Essential

# Horizontal Decoupling

*When we don't separate concerns, code can turn to mush.*

*Not only is your codebase hard to test, but it can feel like you're maintaining a ton of small scripts.*

*Without a clear place for abstractions to go, you introduce duplication & complexity over time.*

*Horizontal Decoupling first involves reorganizing concerns into well-known layers of Abstraction (infra, adapter, app, domain).*

*It also involves learning to use dependency inversion to decouple, invert & isolate the layers you want to test or swap out.*

*With a clear picture of where abstractions belong, how they interact, you gain testing options, less duplication and more maintainable code, flexible code.*



from the theoretical

## Incoming Adapter

Can the system be reached? Do the correct operations get called when a request is made?

Acceptance Test

Executable Specification

Protocol Driver

System API Contract

# The Physical Guess Points

The “How”

## System (E2E)

Does the system do what the customer asked for? Does the entirety of the system work together? Do all the architectural components work together?

Features

Stories

Acceptance Criteria

Examples

## Application

Do the internals of the system do the right things when we perform scenarios and edge cases? Are internals being called properly? Does the app call the right external services and attempt to save at the right times?

Features

Stories

Acceptance Criteria

Examples

## Stateful (Domain Modelling)

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Are we accurately modelling the business logic and the heart of the domain?  
Does the application enforce business rules?

## Outgoing Adapter

...

## Stateless

Do my functions work correctly?

...

...

Can I reach the external services? Do they work the way I intend? Am I properly integrated with them? Do they persist data properly?

## Deployment & Delivery

Can I deploy to production? Does my deployment pipeline mitigate negative value? Does it enforce a code standard?

...

...

## Execution

Are users using the feature? Are they using it the way we intended?

...

...