

Architectural Uncertainty? Build Schrödinger's App!

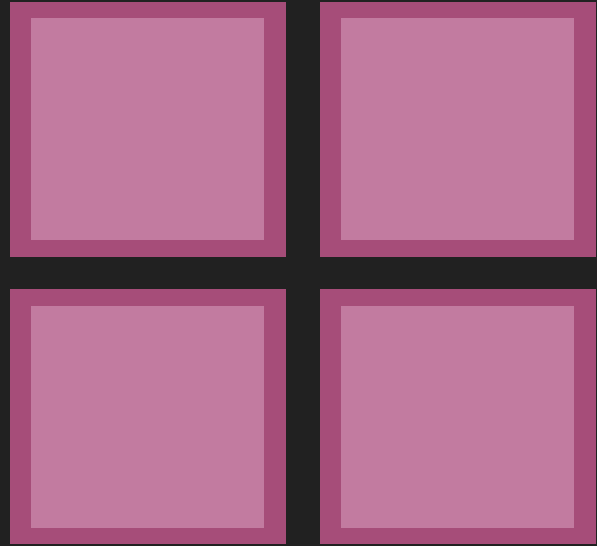
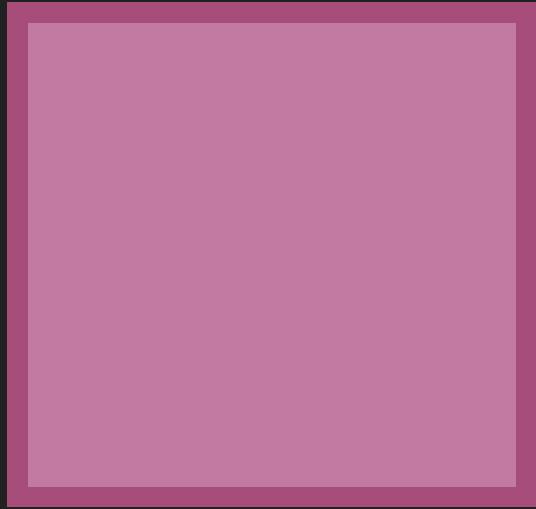


Masking Technology
hello@masking.tech
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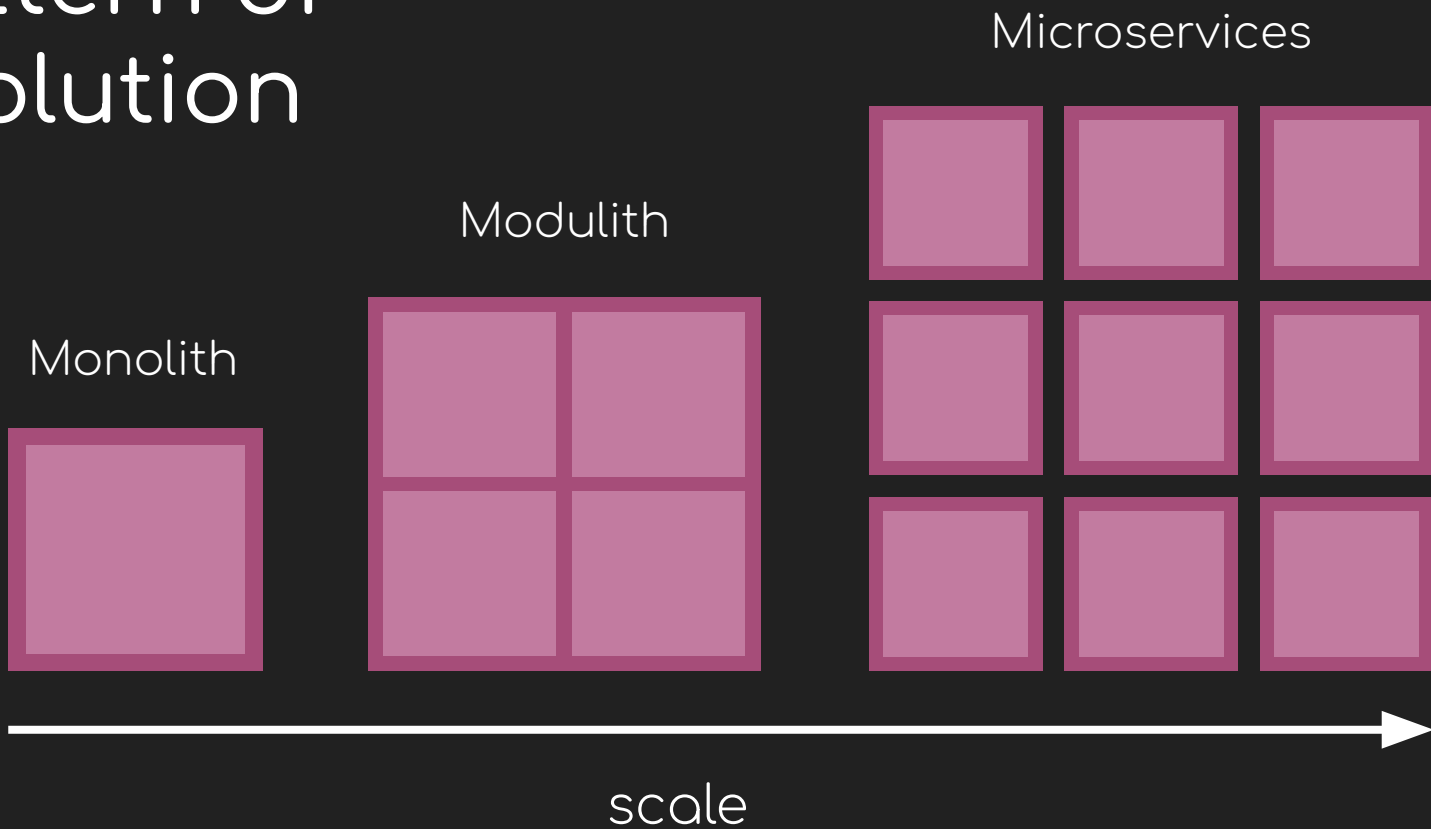


Do you always know **how**
or **when** to **scale** your
applications?

At the end of the talk.



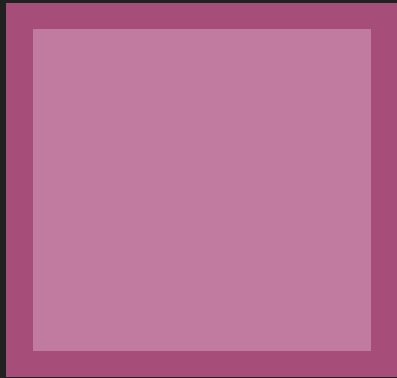
Pattern of Evolution



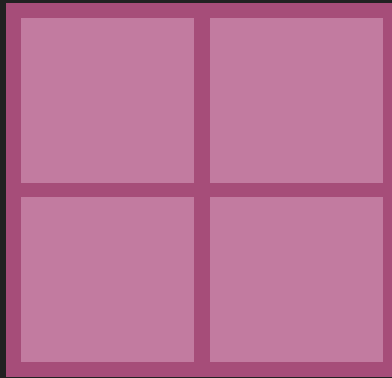
However...

Characteristics

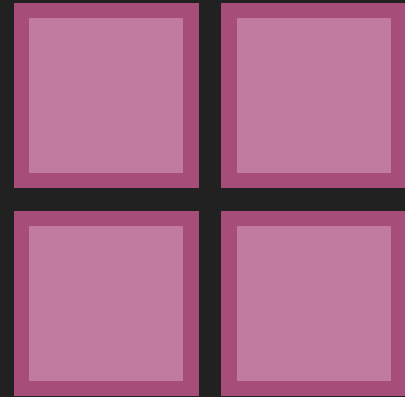
Shared development
Single deployment



Independent development
Single deployment



Independent development
Independent deployment

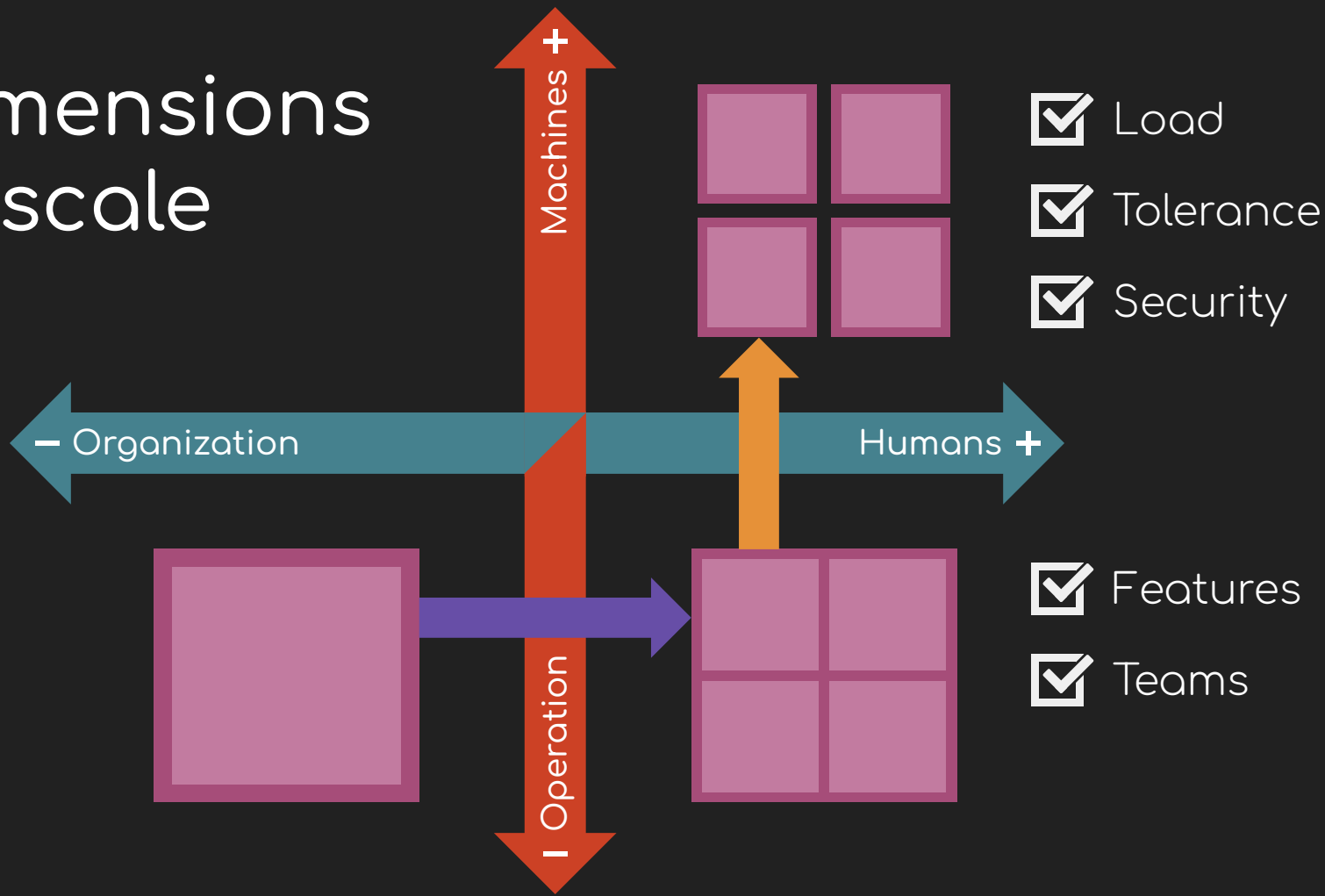


organizational

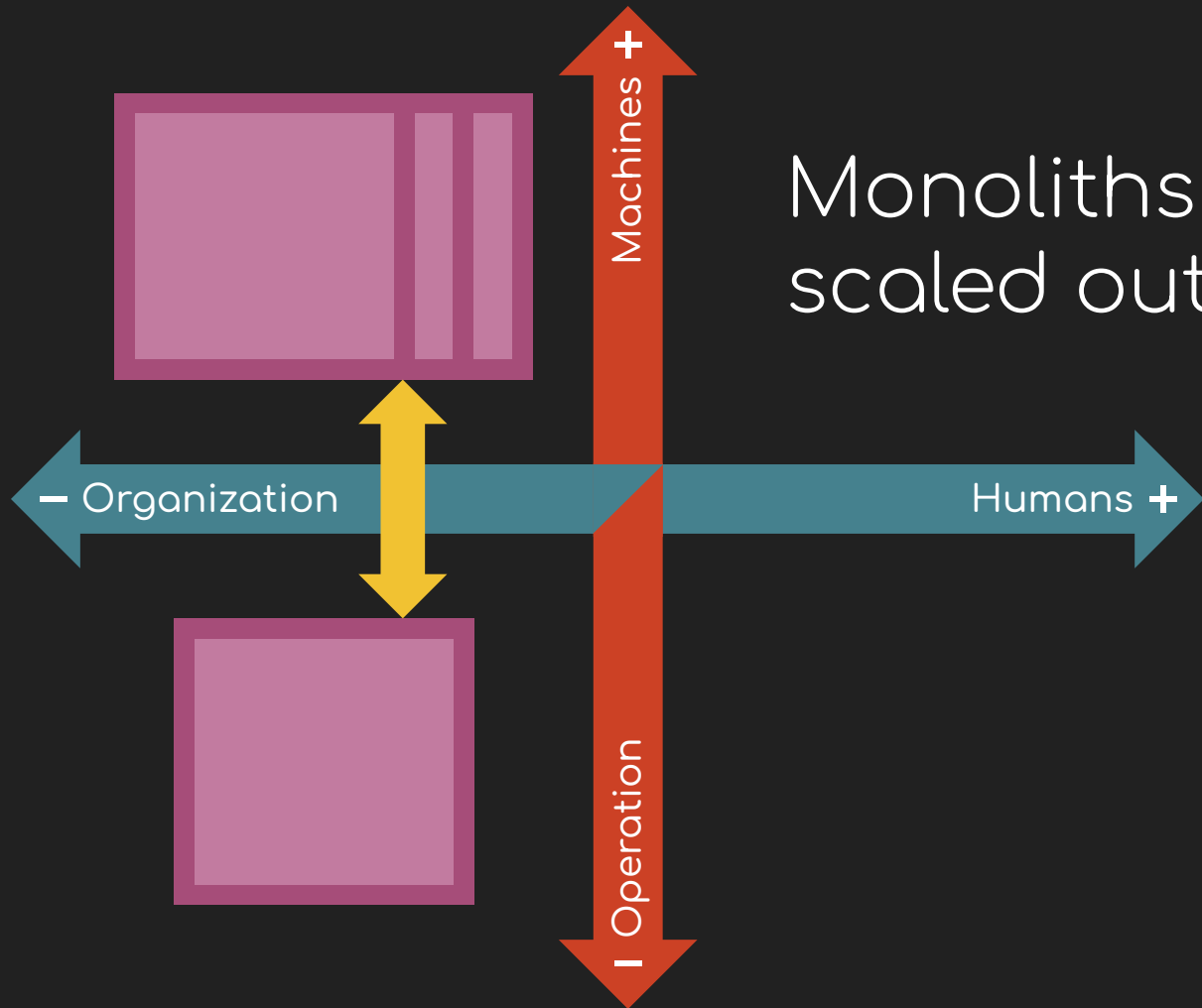


operational

Dimensions of scale

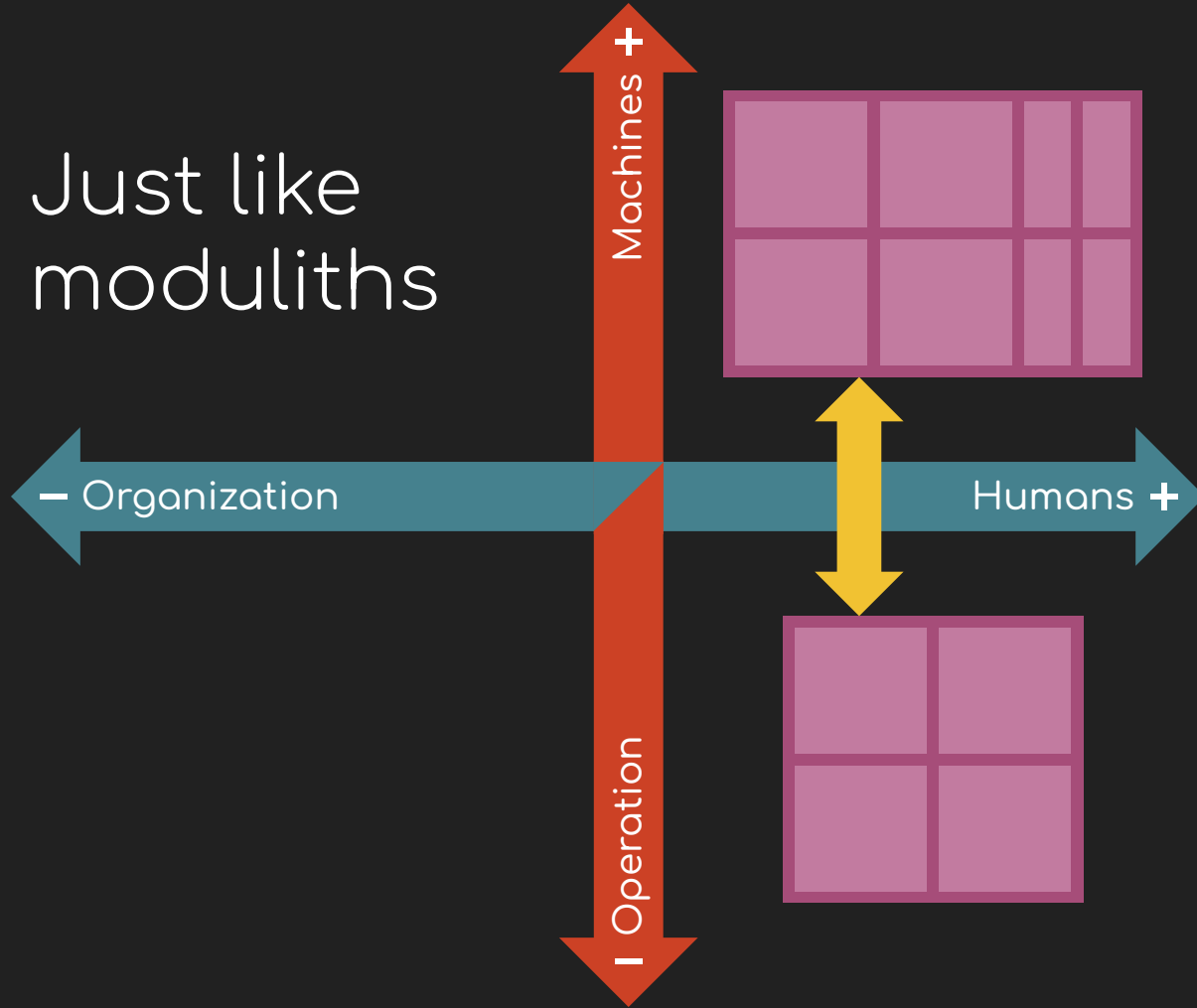


In practice...



Monoliths are scaled out too

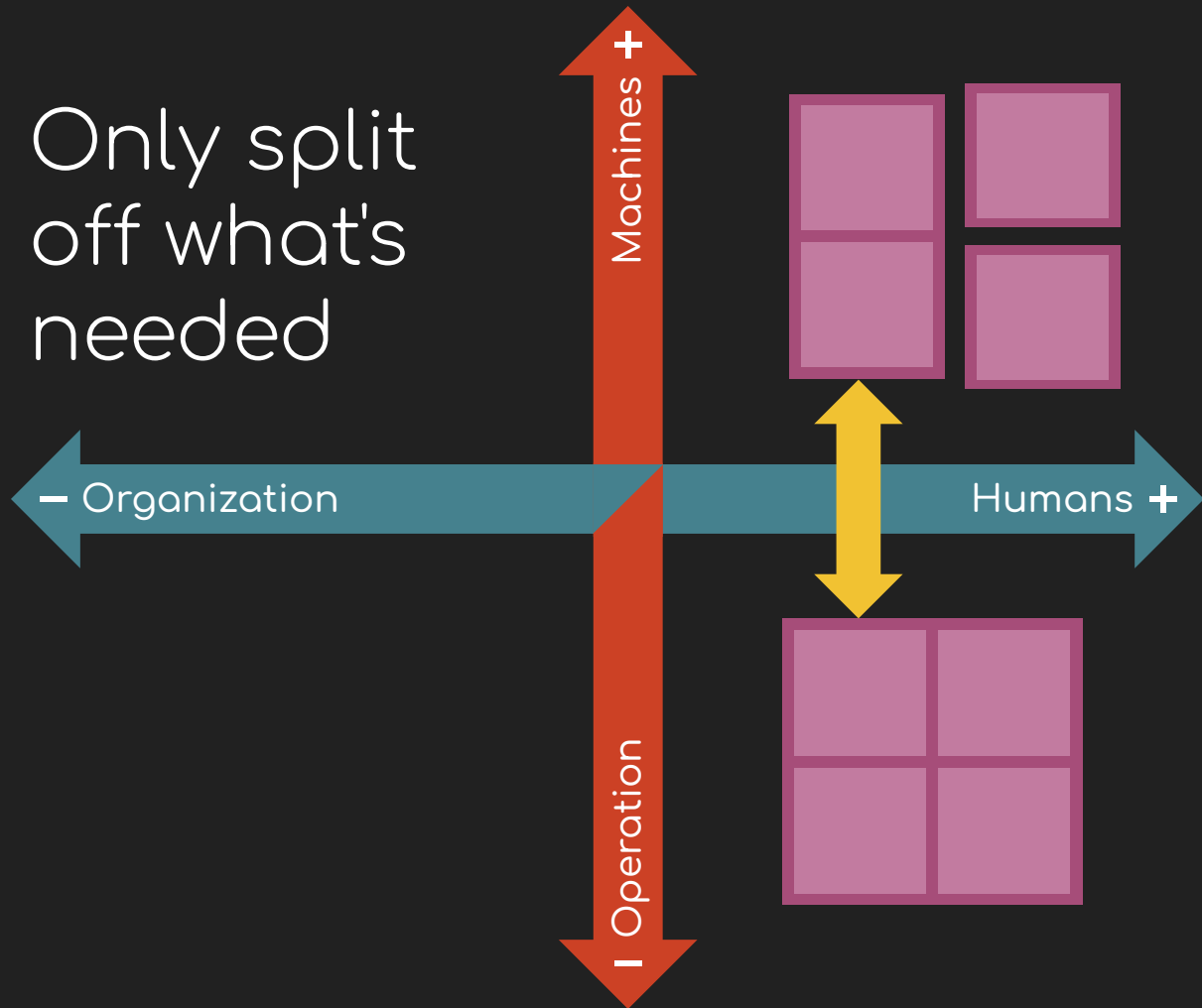
Just like
moduliths

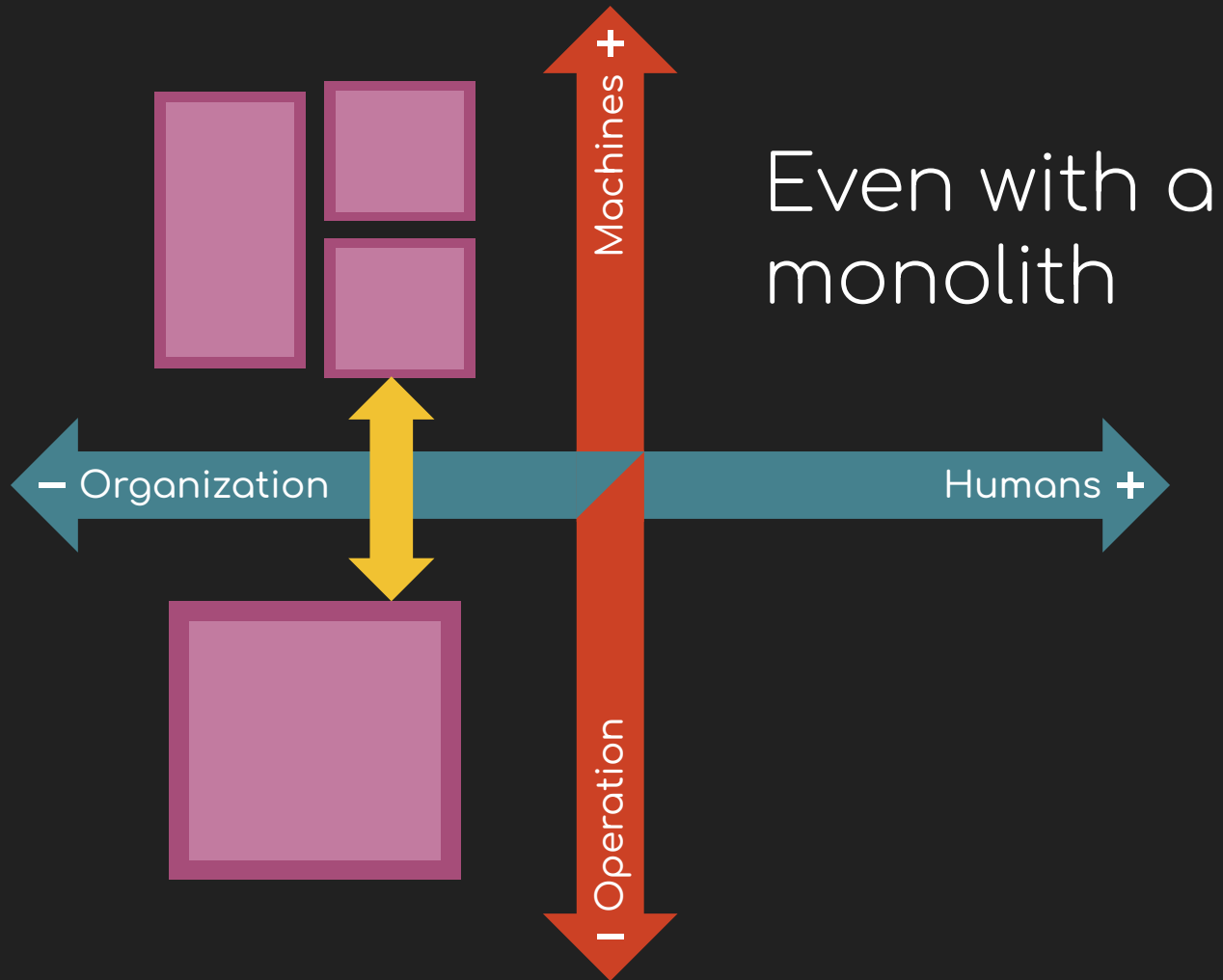


But,

more ideally...

Only split
off what's
needed

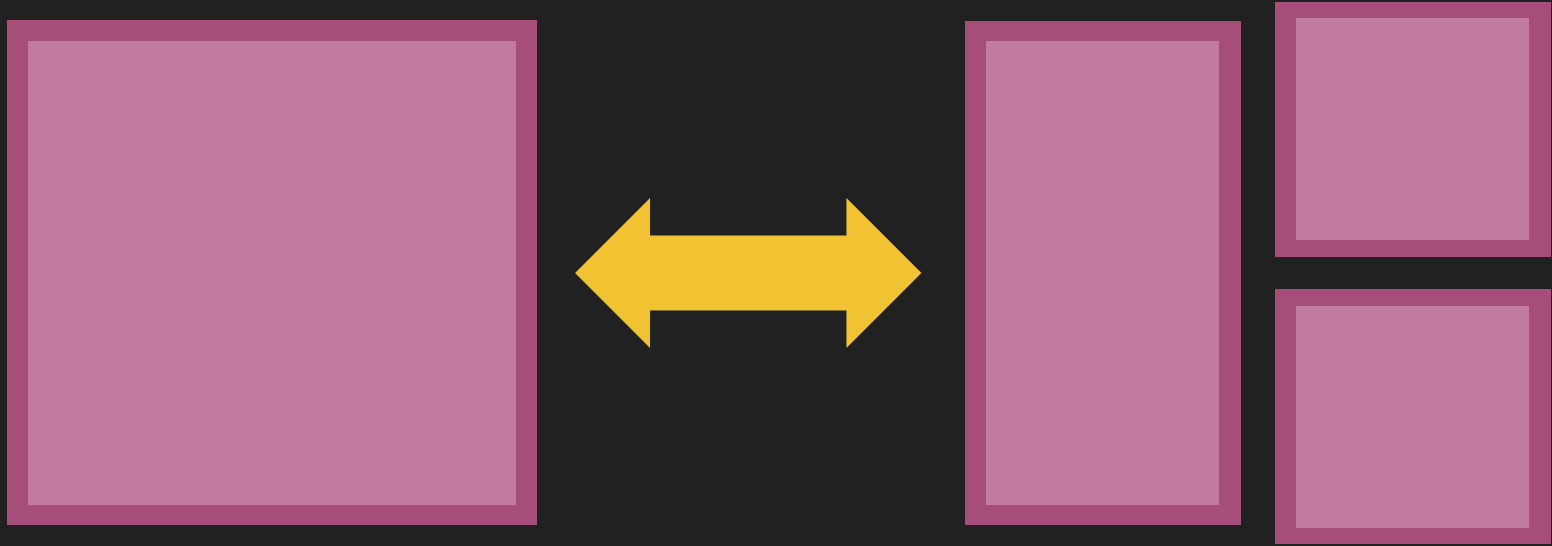




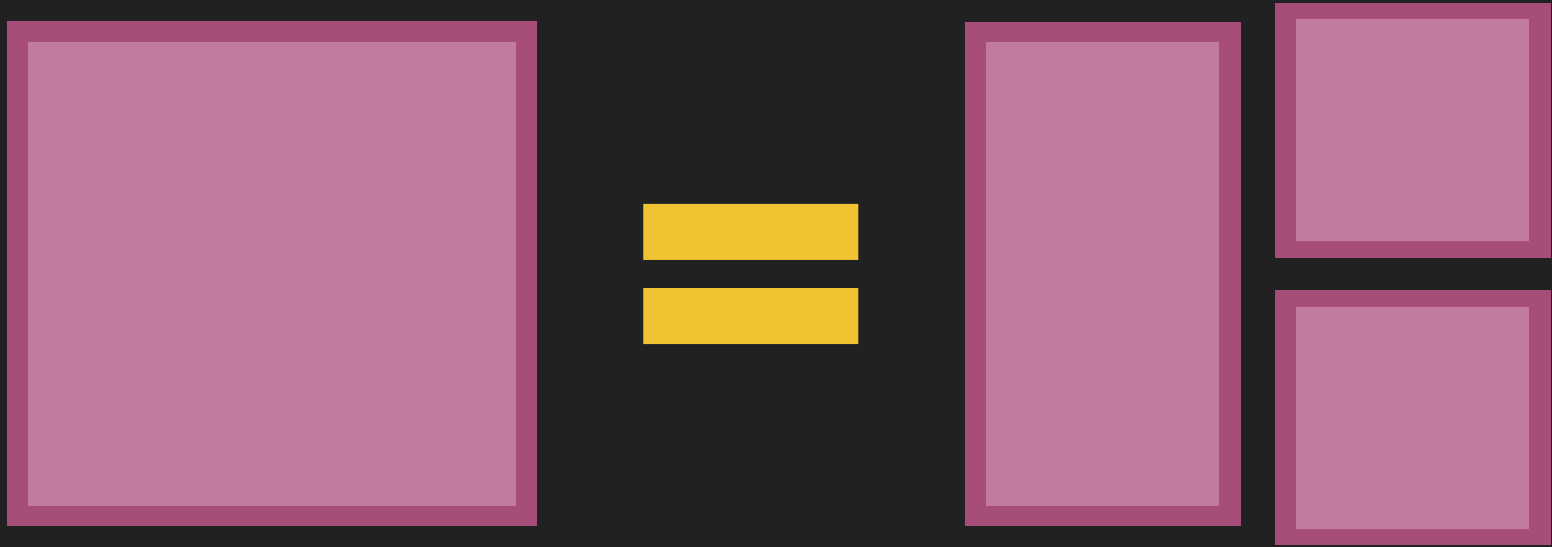
So...

How to do this?

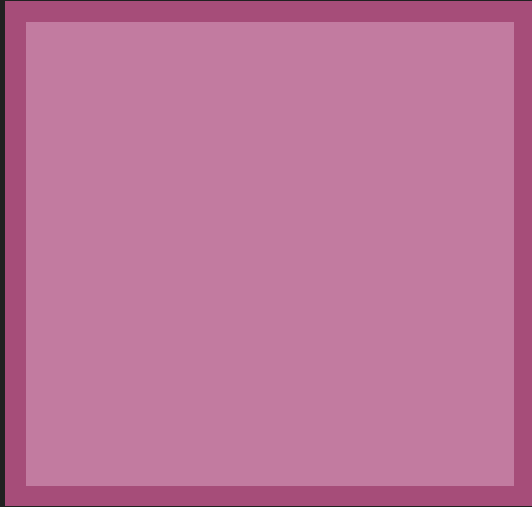
We can keep refactoring...



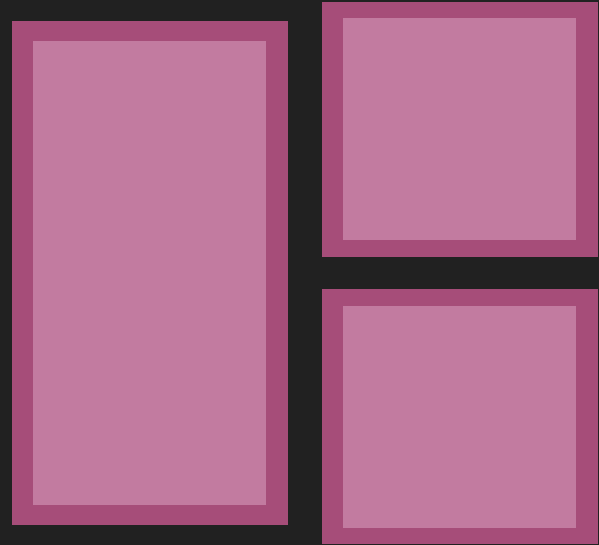
But do we really need to?



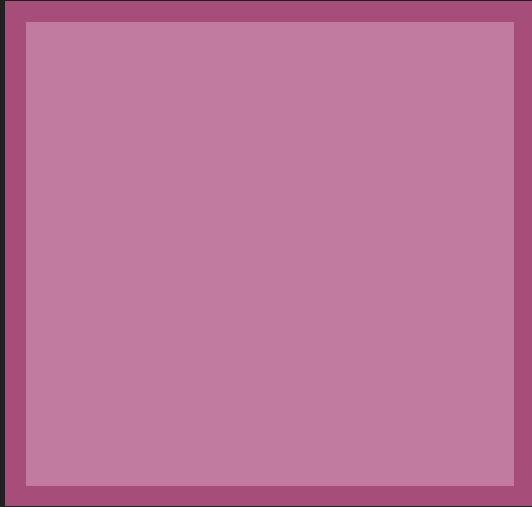
Organizational
(logical view)



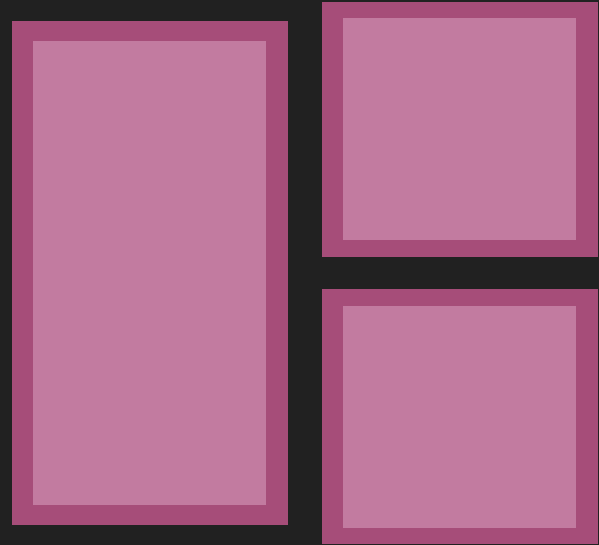
Operational
(physical view)



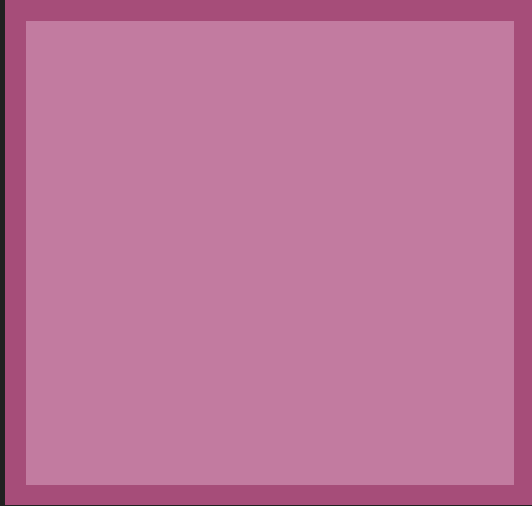
Development



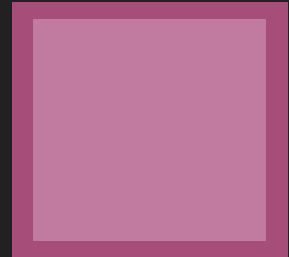
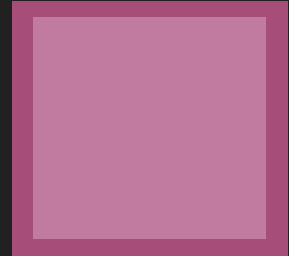
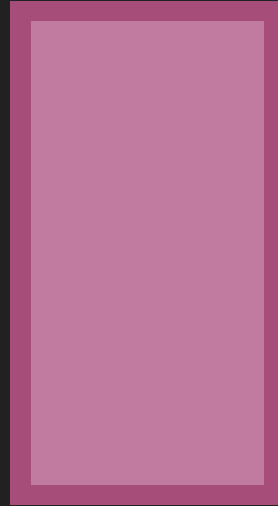
Deployment



Development



Deployment



COMIFY

Comic based social
media platform.



[View on GitHub](#)

#1

Development

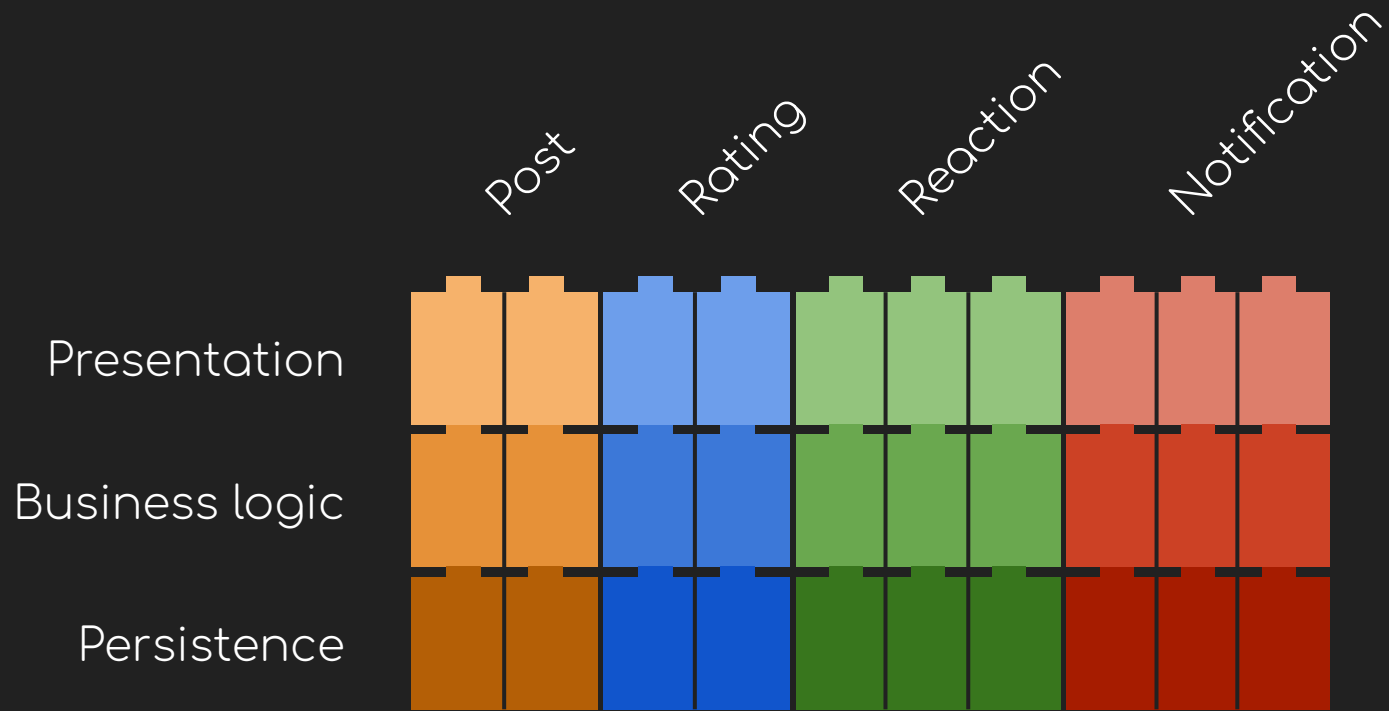
How the app is built.



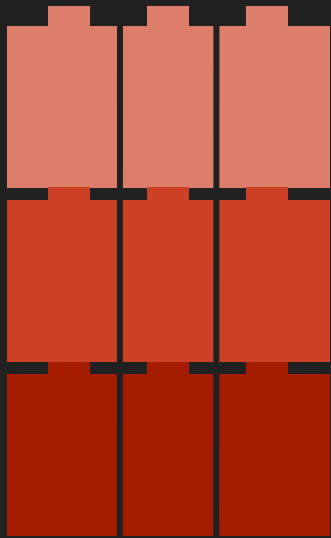
Monolith design



- Vertical slicing (features)
- Horizontal slicing (layering)
- Procedural approach (RPC)
- Orchestrated workflows
- Choreographed side-effects

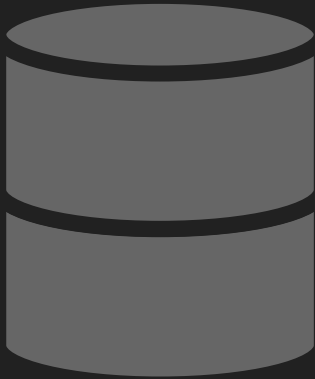


Feature design



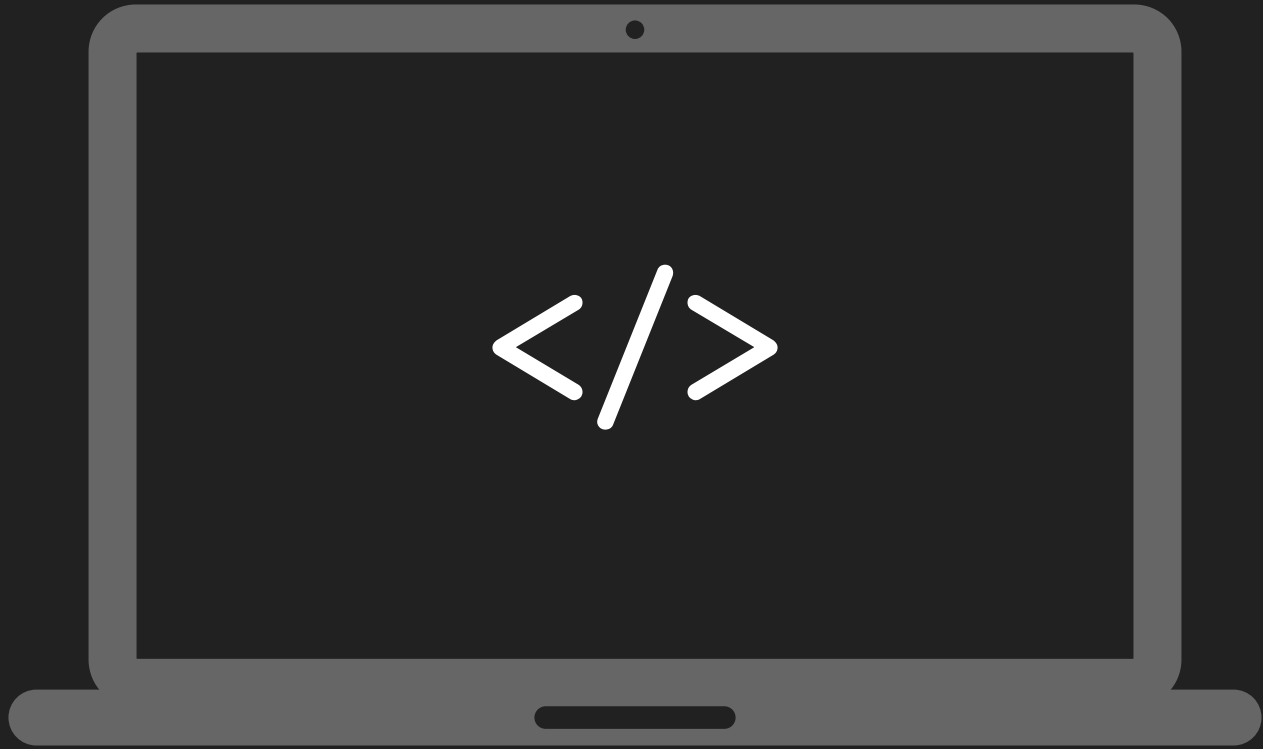
- Stateless
- Async interaction
- Immutable data
- Aggregations
- Transactions (SAGAs)

Database design*



- No relations
- No joins
- No transactions

* these rules do not have to apply everywhere.



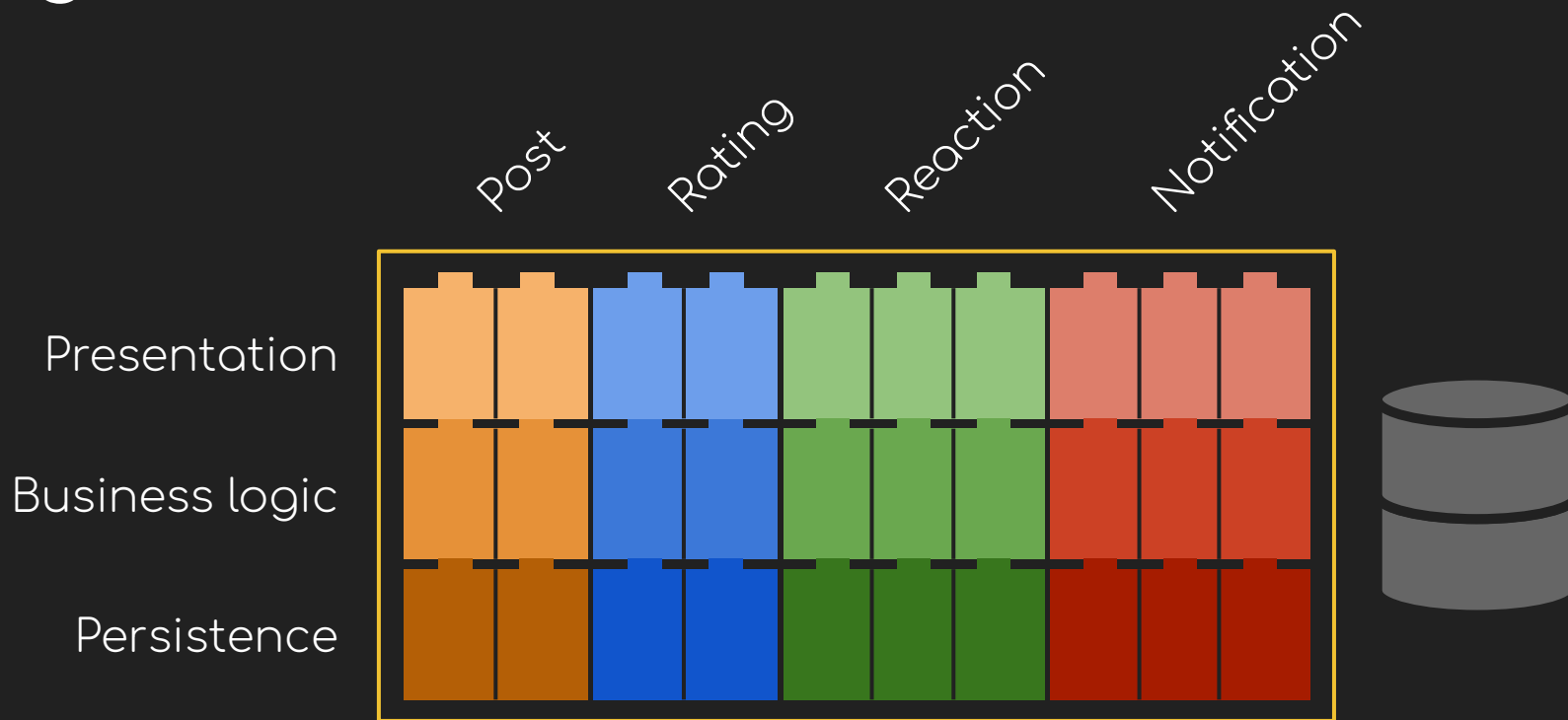
#2

Deployment

How the app is run.



Single unit



Split vertically



Split horizontally



Jitar

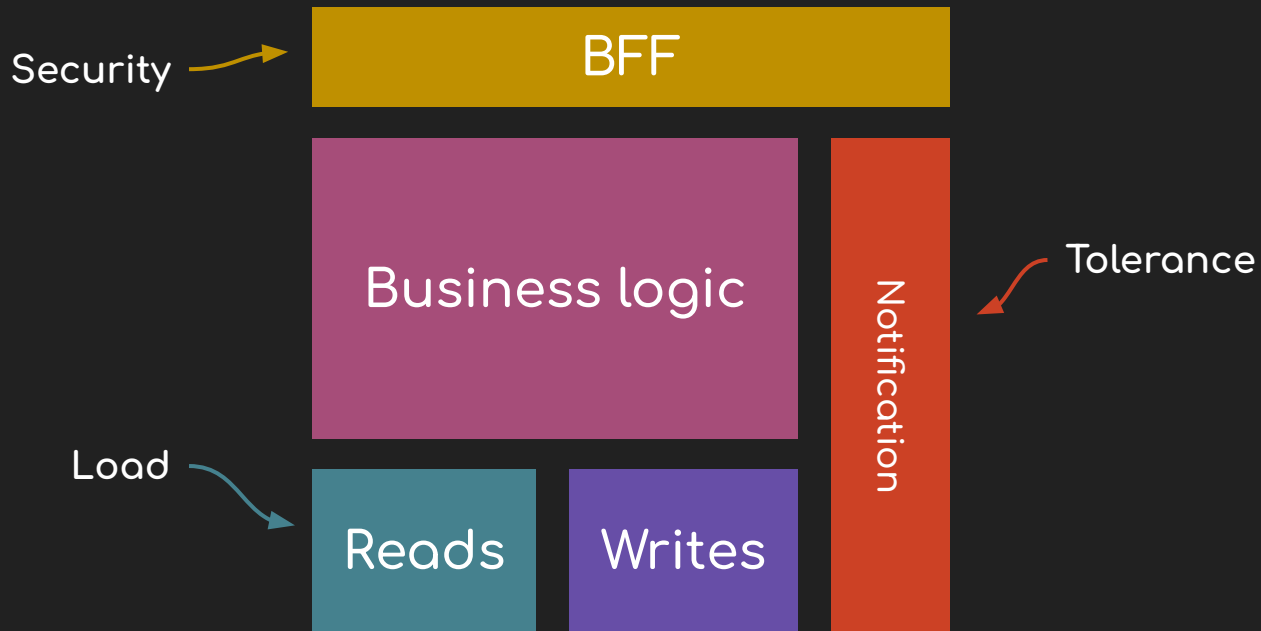
Abbreviation:

Just-In-Time ArchitectuRe

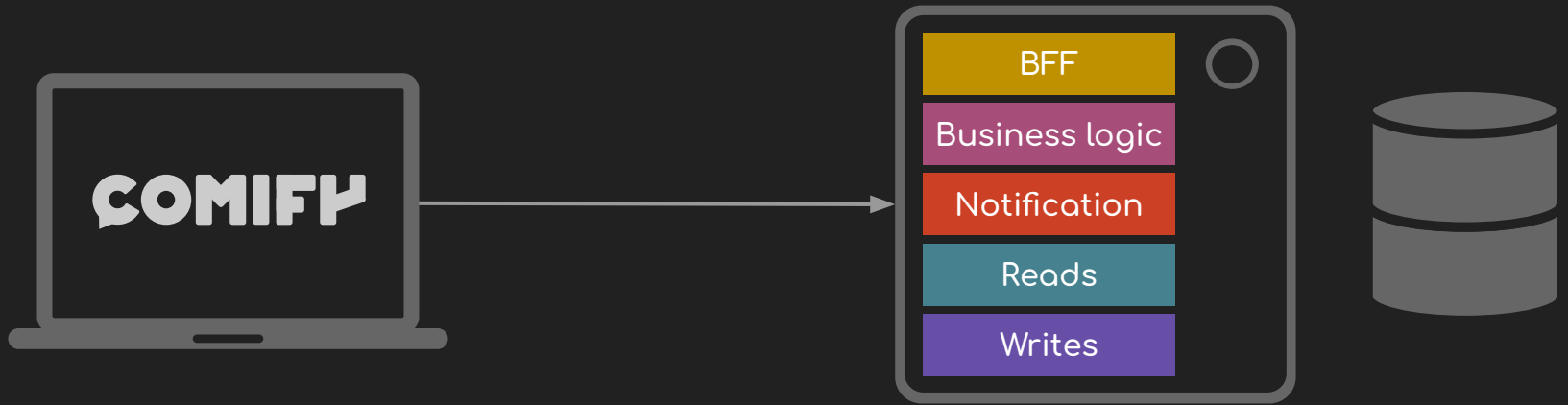


<https://jitar.dev>

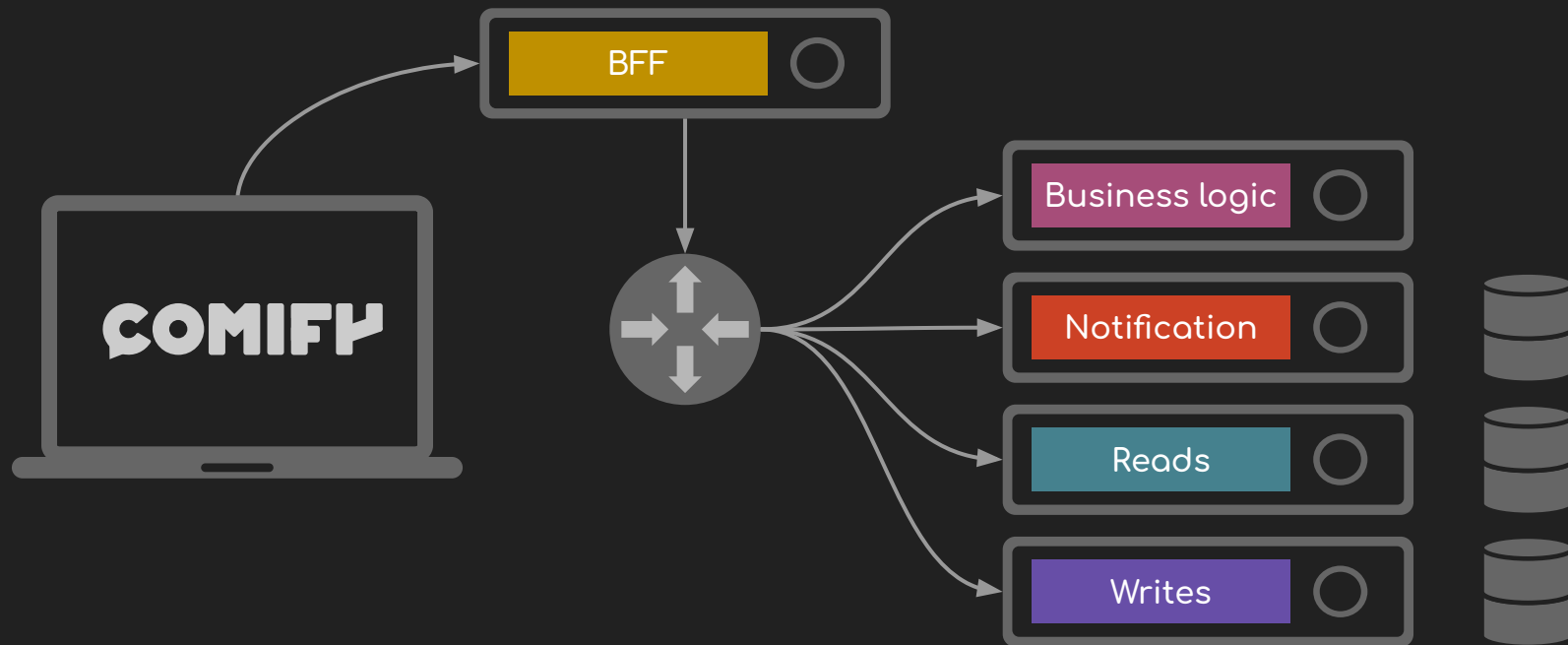
Distribution plan

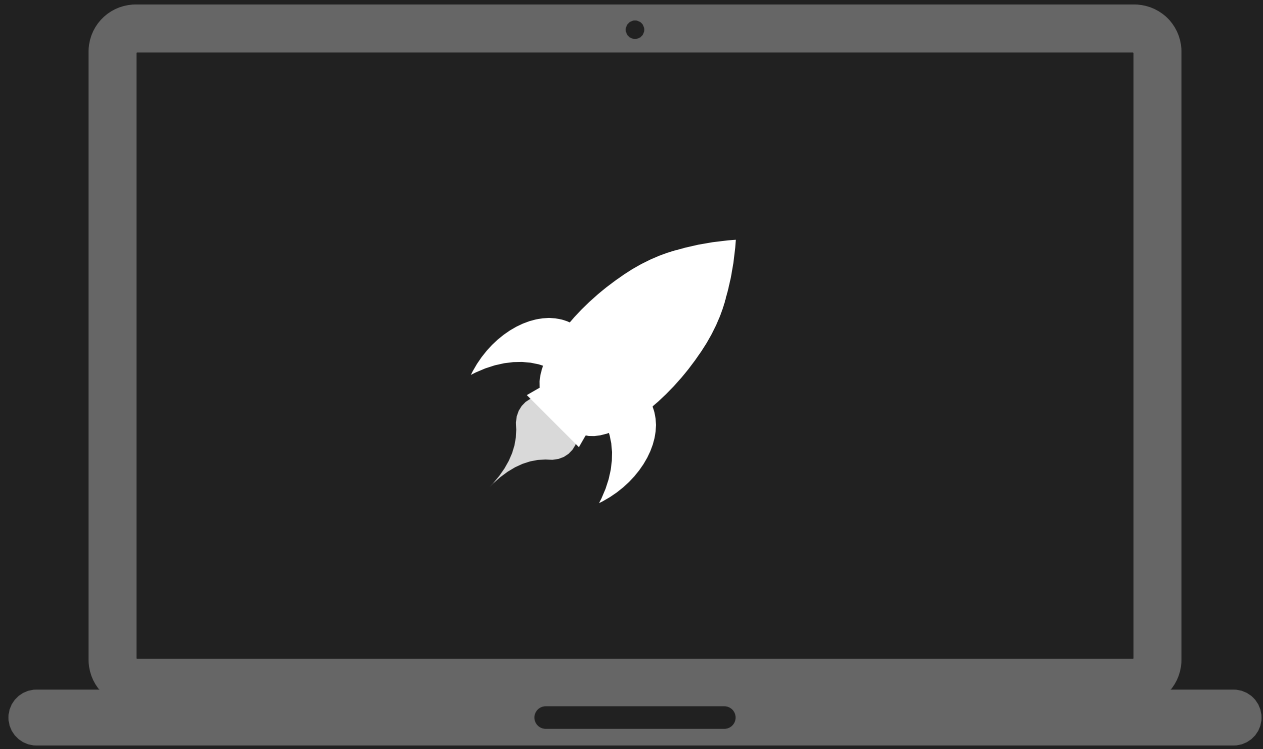


Development

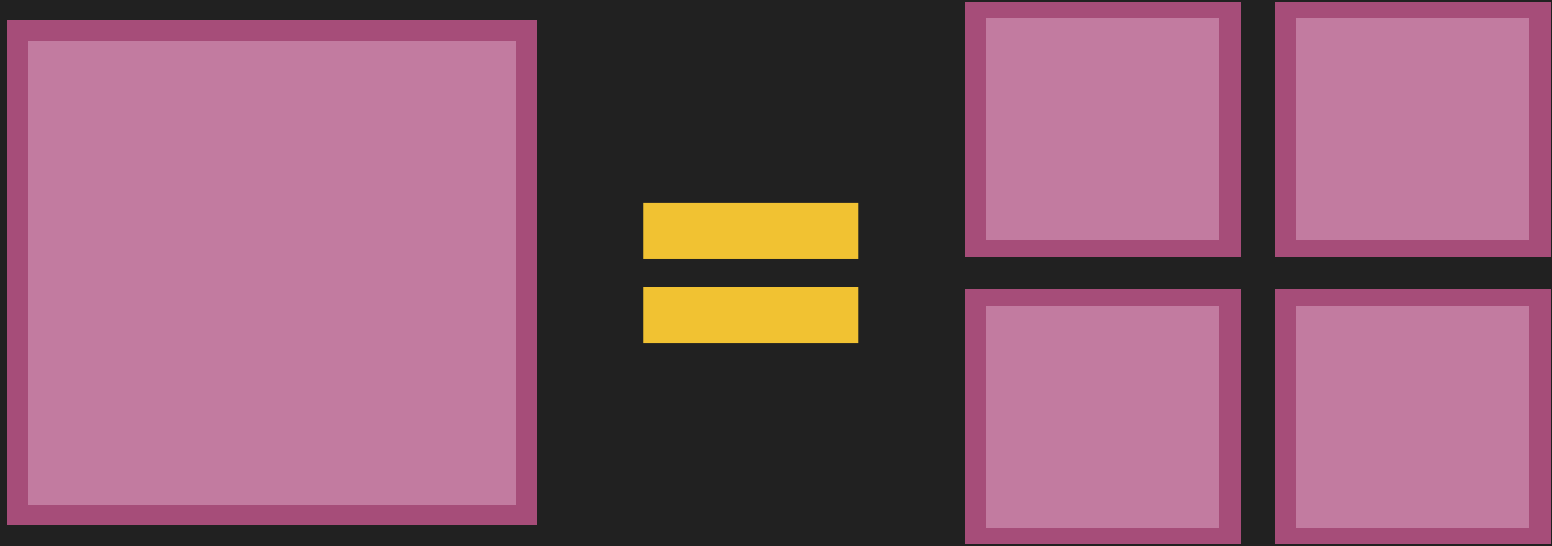


Production





It's just a matter of perspective.



Thanks!



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