



**Din  
webbapplikation  
är en funktion**

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**MVCProject**

- self
- all inst vars
- dependents
- world
- uiManager
- changeSet
- transcript
- parentProject
- previousProject
- displayDepth
- viewSize
- thumbnail
- nextProject
- projectParameters
- version
- urlList
- lastDirectory
- lastSavedAtSeconds
- projectPreferenceFlagD
- resourceManager

Selected field's value

Evaluate expressions on inspected object

Enter text to narrow selection down to matching items

**World**

- Browser
- Workspace
- Transcript
- Test Runner
- previous project
- jump to project...
- save project on file...
- load project from file...
- undo "move Unnamed" (z)
- restore display (r)
- open...
- windows...
- changes...
- help...
- appearance...
- do...
- objects (o)
- new morph...
- authoring tools...
- playfield options...
- flaps...
- projects...
- telemorphic...

**Unnamed**

Unnamed

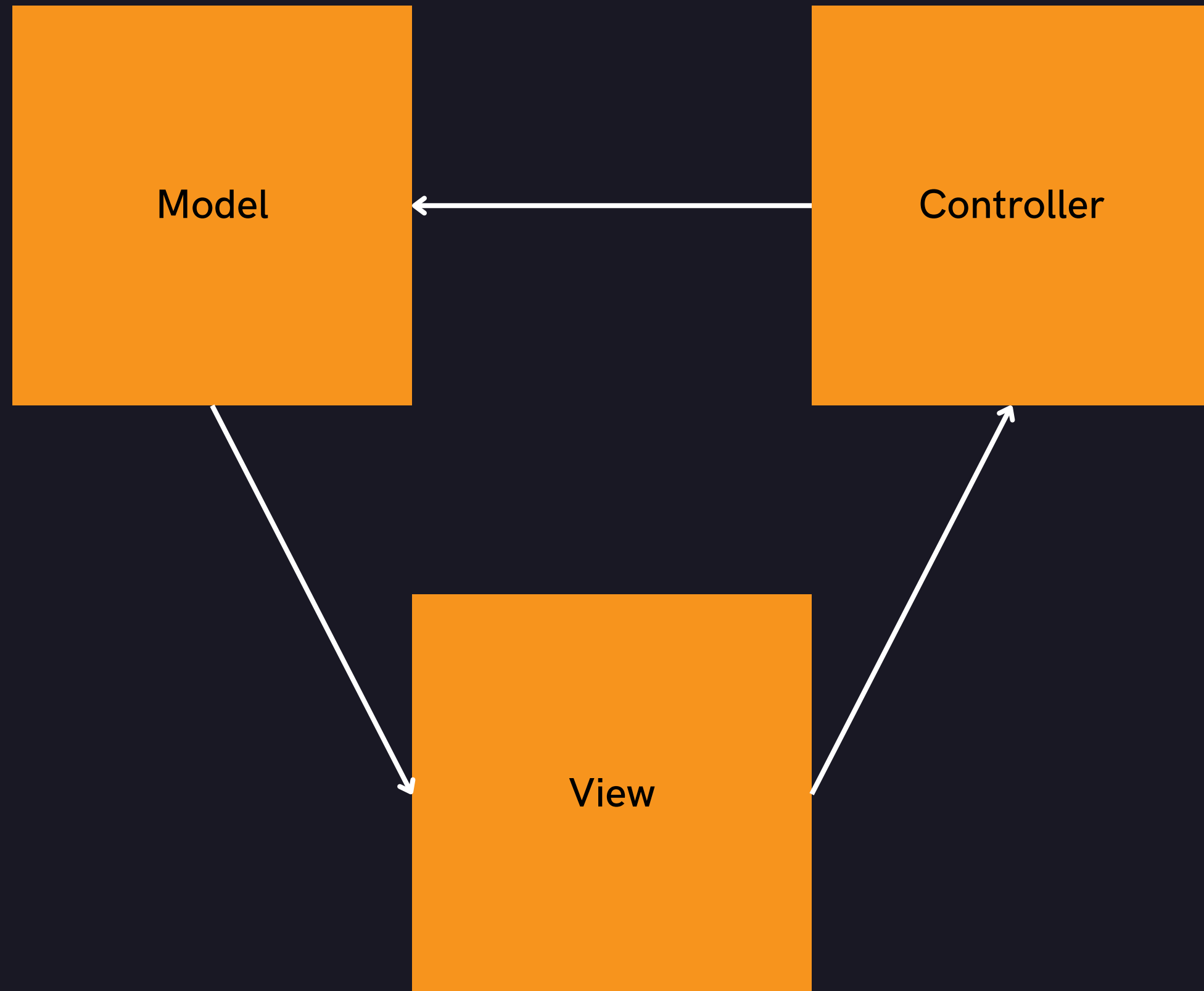
**System Browser**

- all --
- Kernel-Classes
- Kernel-Exceptions
- Kernel-Exceptions-Kerne
- Kernel-Methods
- Kernel-Models
- Kernel-Numbers
- Kernel-Numbers-Excepti
- Kernel-Objects
- Kernel-Pools

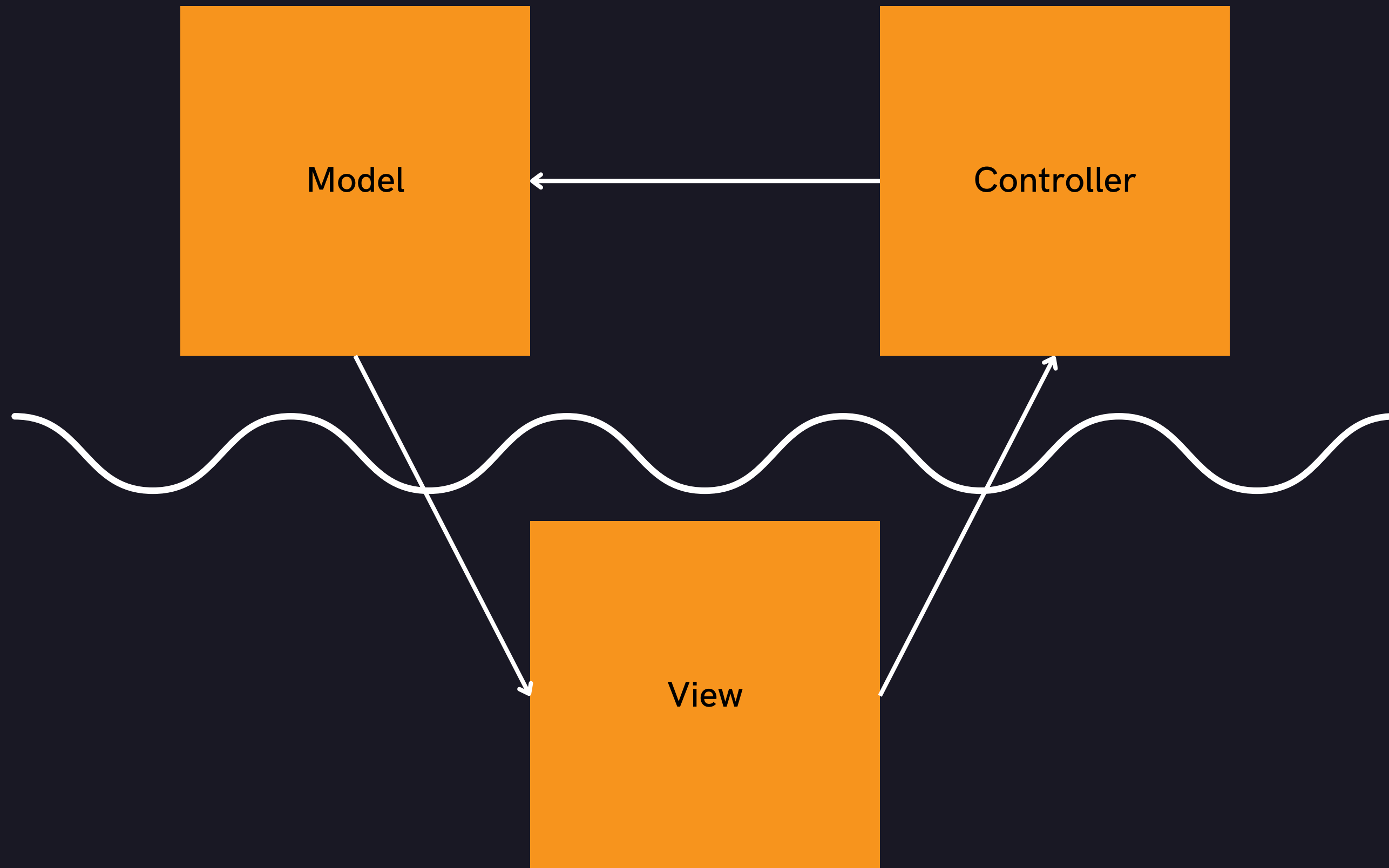
instance class ?

browse senders implementors versions inheritance hierarchy variables source

# MVC



# MVC med Browser

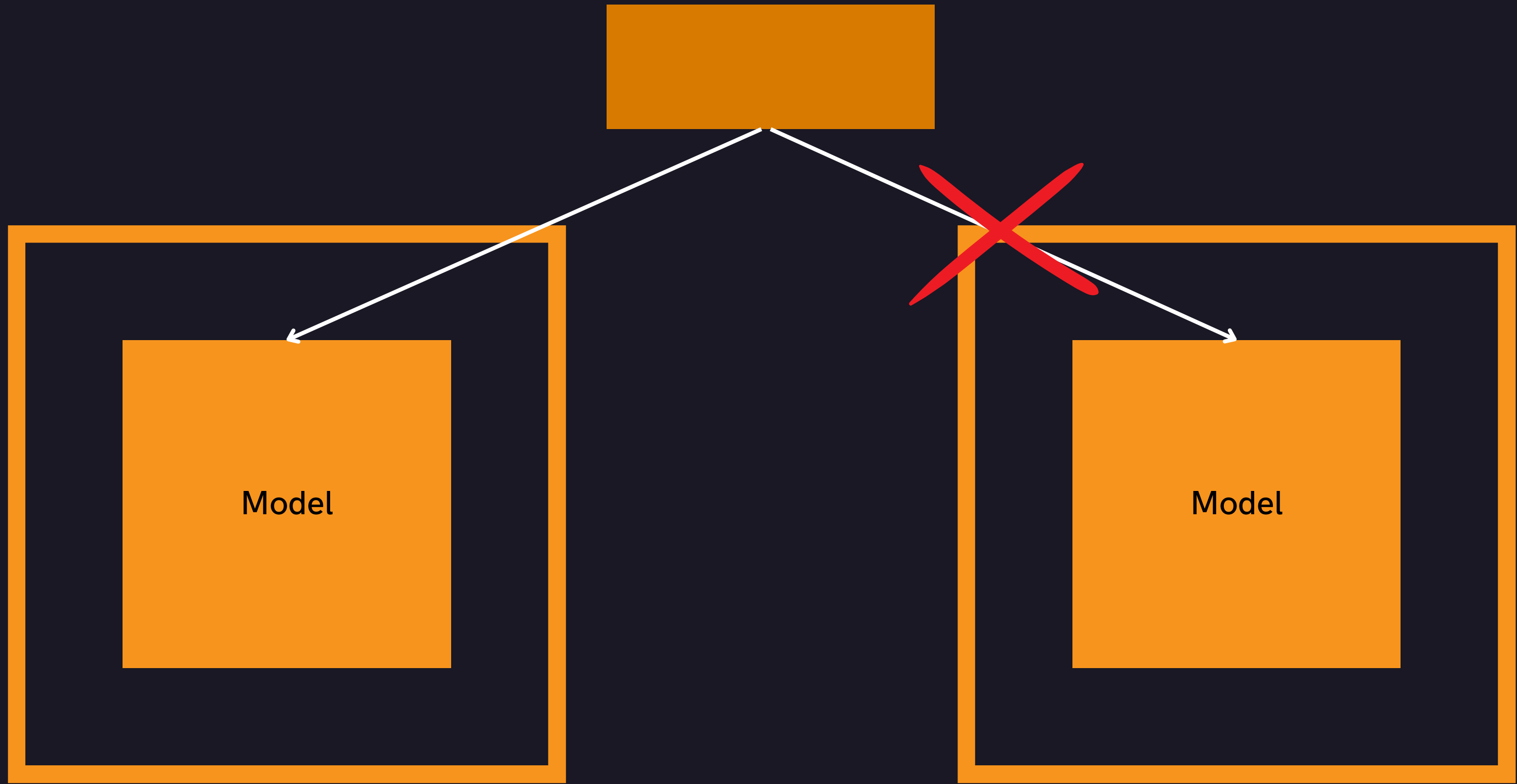


# Dela State



Server 1

Server 2

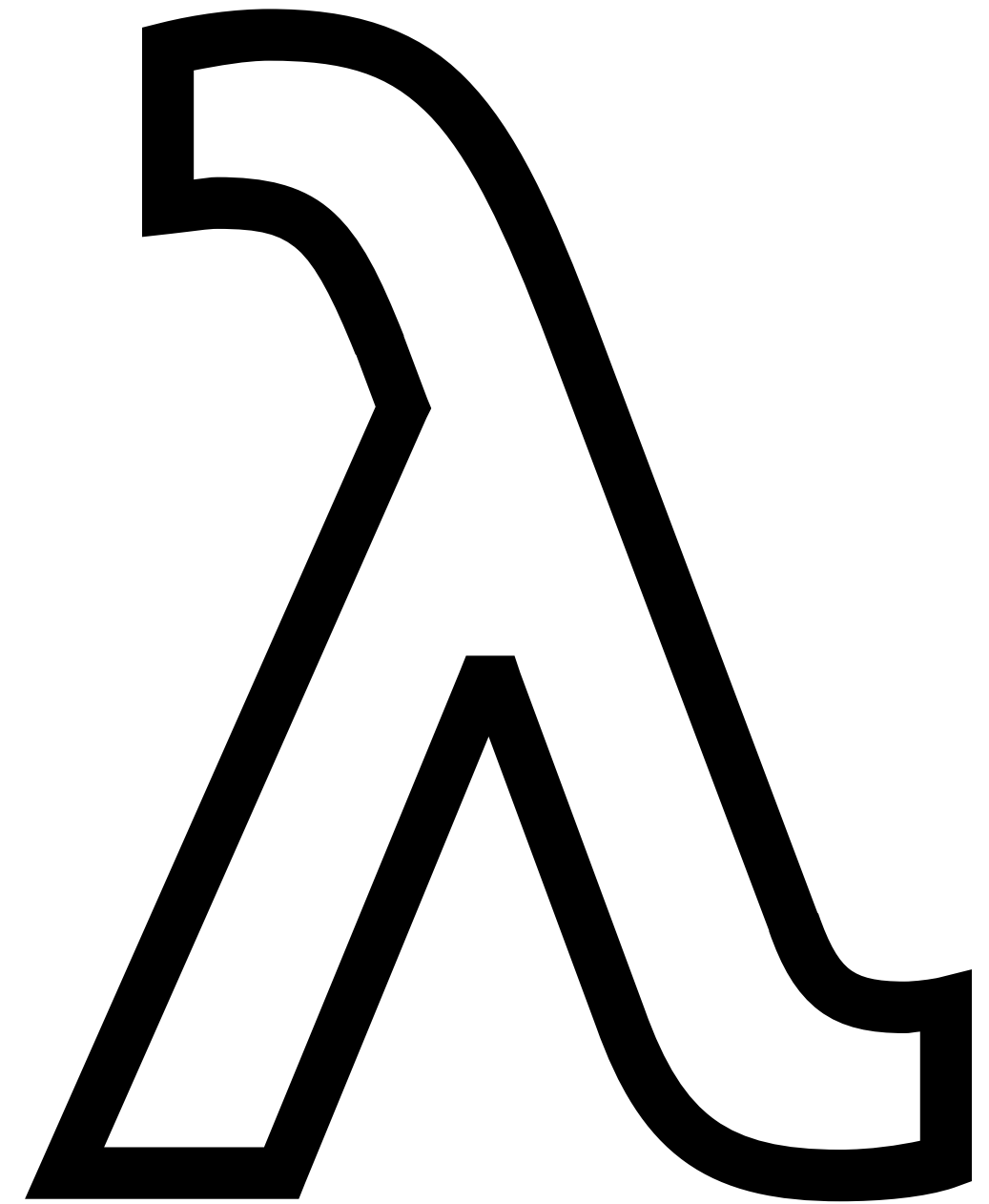


Server 1

*Inte Dela State*

Server 2

**FUNKTIONER?**



# Funktionell Java

```
static Function<Request, Response> handle
```



# Funktioner i Kotlin

```
fun adder(a: Int, b: Int): Int { return a+b }
```

```
val adder = fun(a: Int, b: Int) { return a+b }
```

```
val adder = { a, b -> return a+b }
```

# Funktionstyper i Kotlin

```
 typealias HttpHandler = (Request) -> Response
```

# Http4K

```
val staticApp: HttpHandler = fun(_: Request) : Response {  
    Response(OK).body("Hello World!")  
}
```

**Koddemo**





# DJUPA CALLSTACKS

Layered architecture lägger dependencies längst ned.

Vi vill flytta dem högst upp



# Handlers

```
public void handleUpdate(DomainSomething object) {  
    ... deep breath ...  
}
```

# Funktionella Handlers?

```
public void handleUpdate(DomainSomething object, Database db) {  
    ... deep breath ...  
}
```



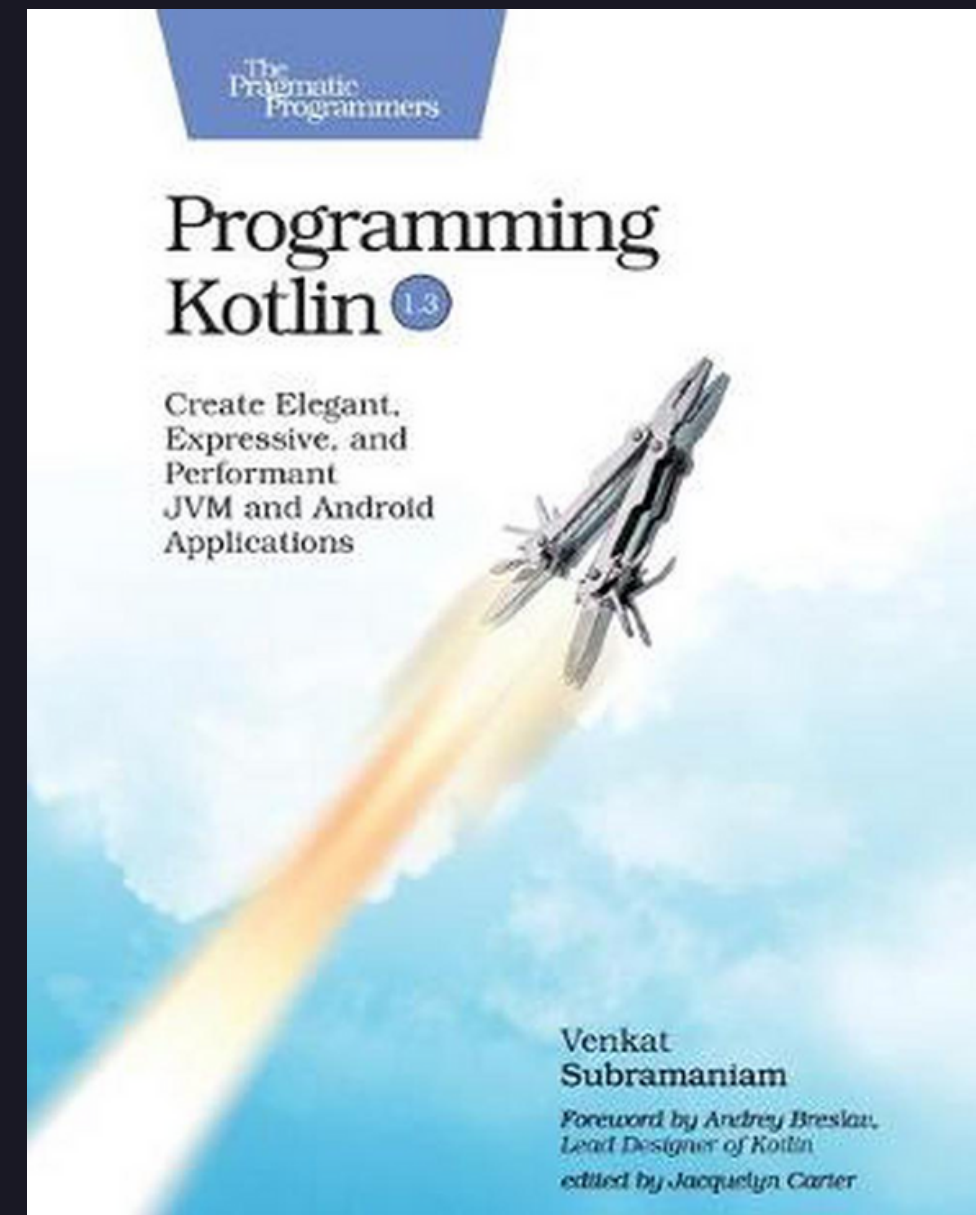
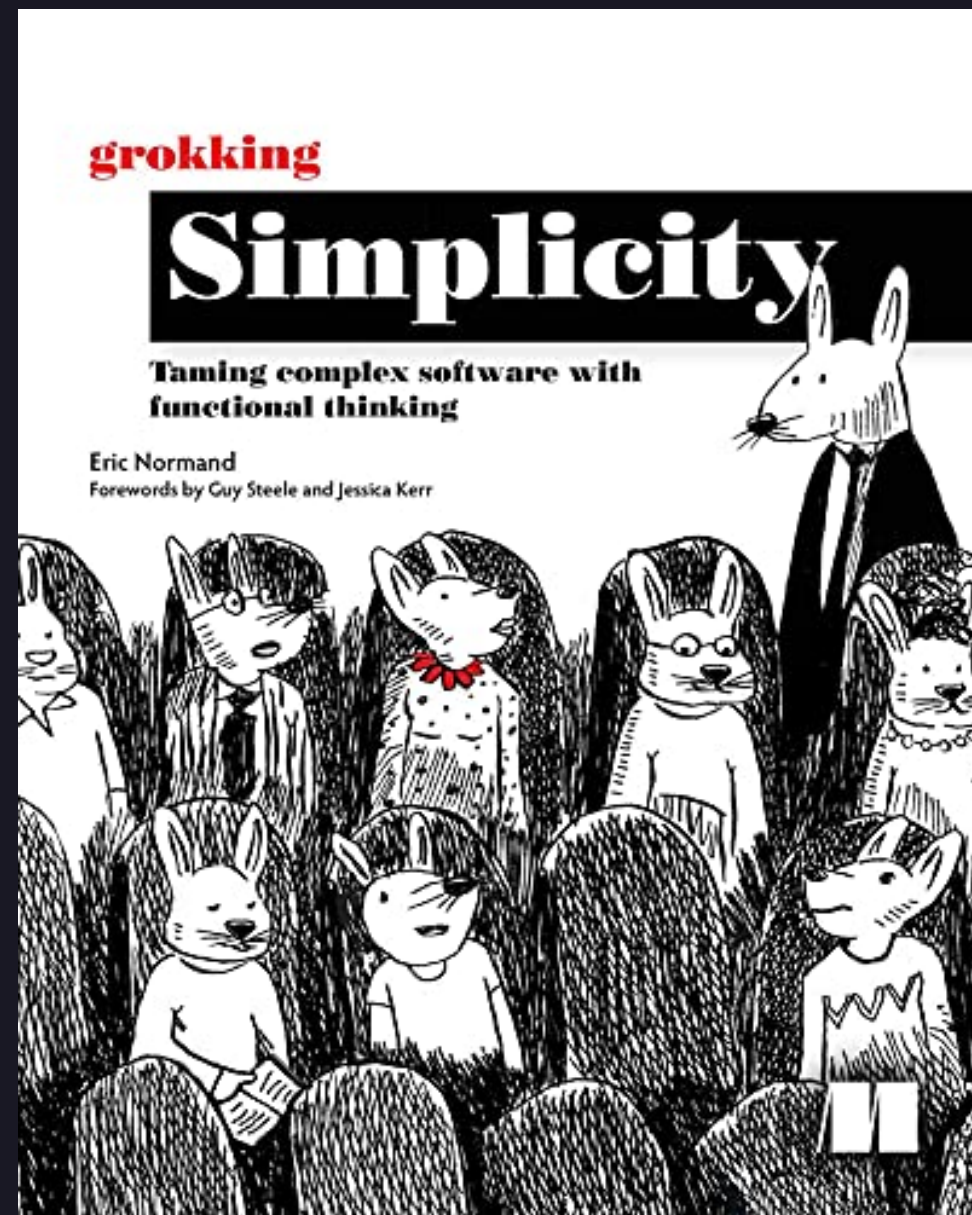
# Koddemo 2

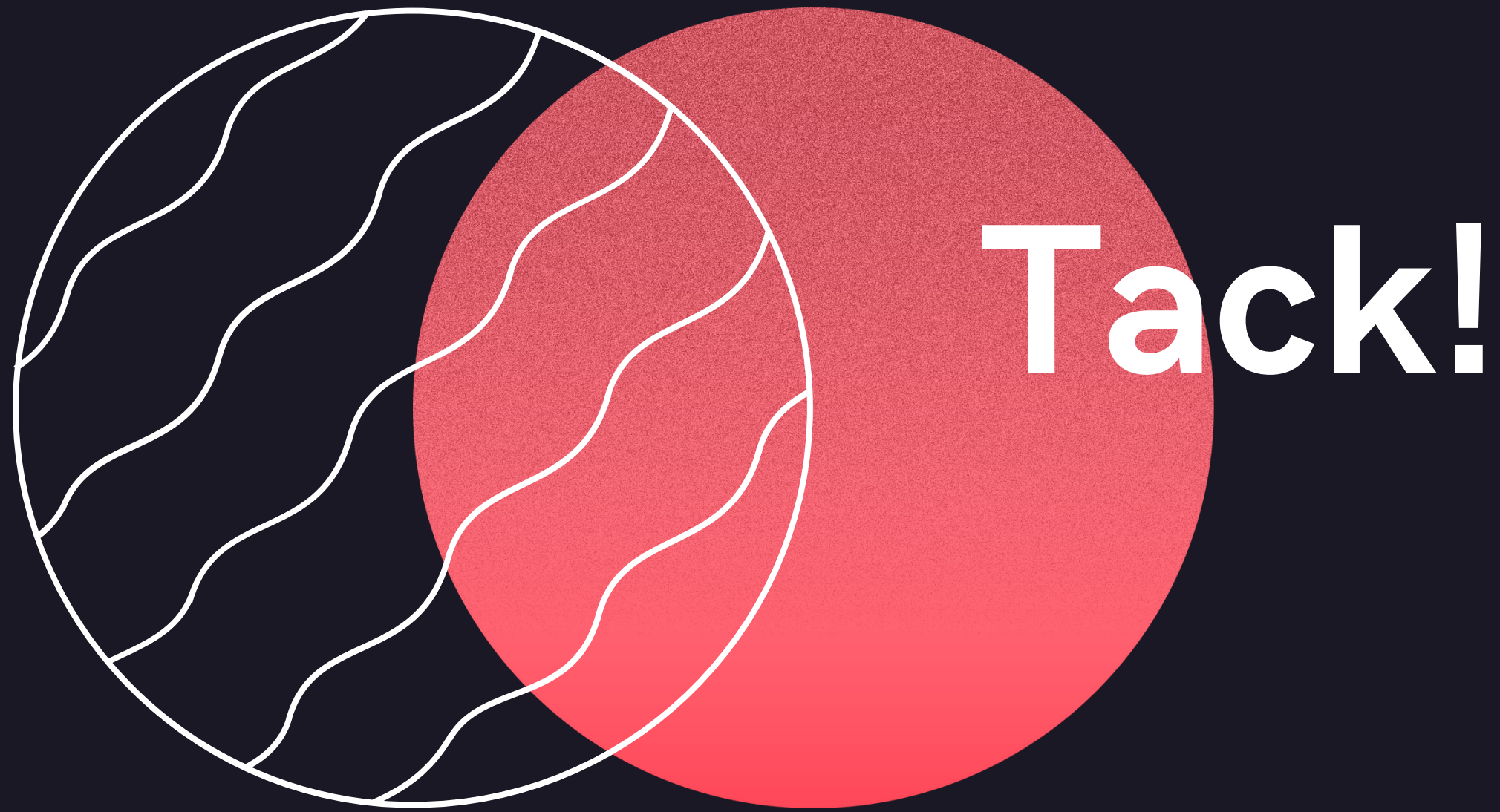
wave goodbye



# BOKTIPS

07





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