

# ABSTRACT COMPONENT MODELING



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futurice

# REVEAL MY 🖐️

ABSTRACT BEHAVIOR MODELING

BEHAVIOR FIRST APPROACH

PORTABLE BEHAVIOR



# BEHAVIOR



# ABSTRACT BEHAVIOR




INTEGRATIONS = [DESIGN, PLATFORM, DATA FLOW, FRAMEWORK]



**David K.**   
@DavidKPiano



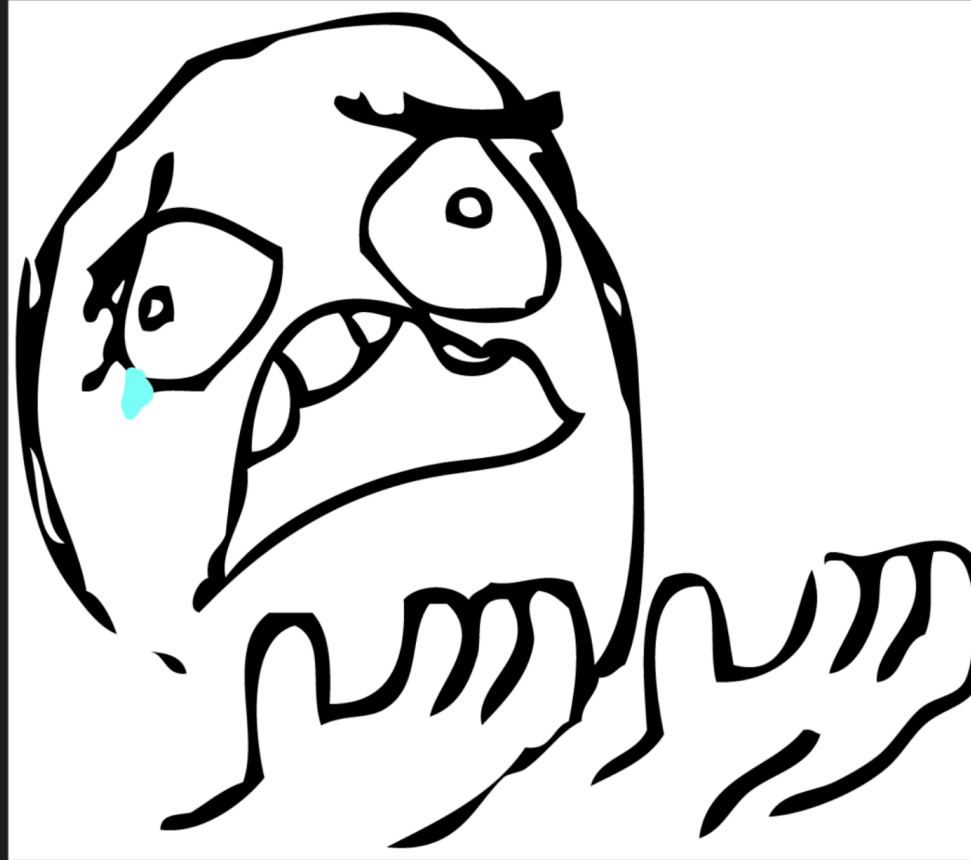
 Model and develop your app's logic as if it will be used in many different UIs (e.g., web, CLI, native, etc.), even if it won't be.

This will force you to avoid coupling logic with presentation, which mainstream frameworks (React, Angular, Vue) unintentionally encourage.

4:08 PM · Feb 4, 2019 · [Twitter Web Client](#)



**BUT HOW?!**



**@FARZAD\_YZ**

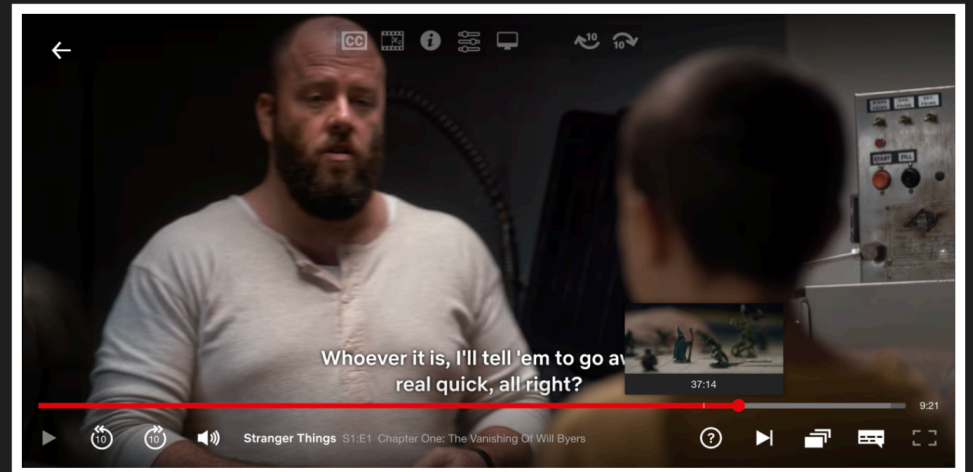
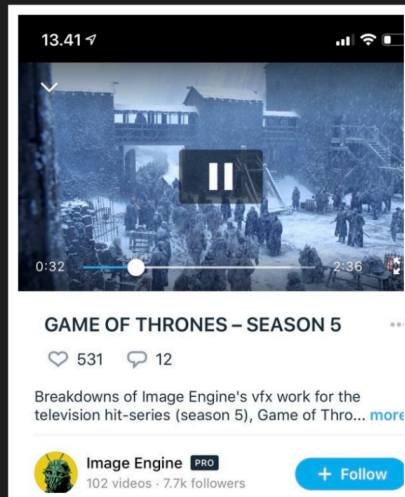
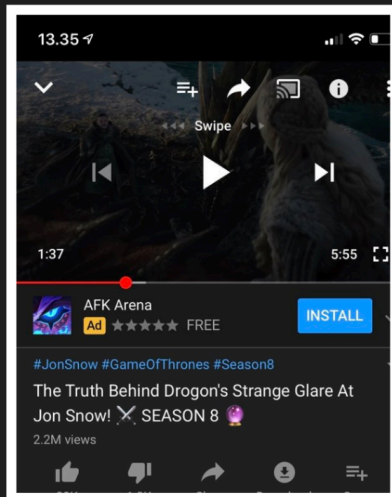
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WEB

MOBILE

NETFLIX *vimeo* YouTube

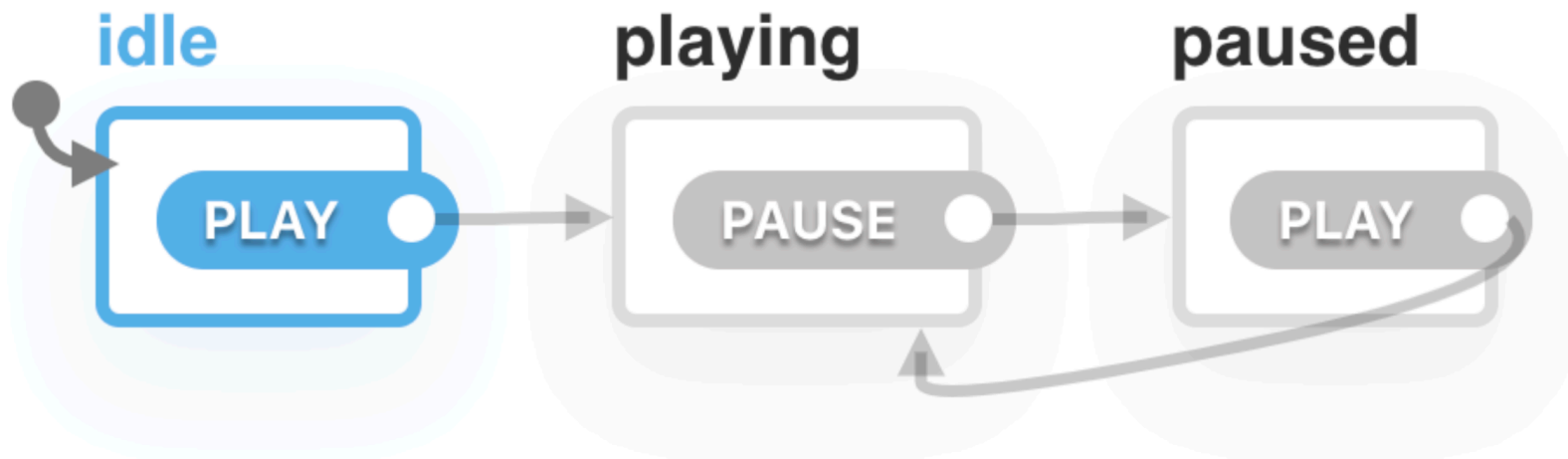


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# AT THE HEART

## Playing





# COMPONENT CONSISTS OF

**CORE BEHAVIOURS**

**IMPLEMENTATION  
BEHAVIOURS**

**STYLES**

**[...INTEGRATIONS]**



# THINK IN

**IMPLEMENTATION: LANGUAGES, FRAMEWORKS**

**DESIGN: MATERIAL DESIGN, BOOTSRAP, IN-HOUSE  
DESIGN SYSTEM**

**PLATFORM: WEB, MOBILE, NATIVE VS HYBRID**

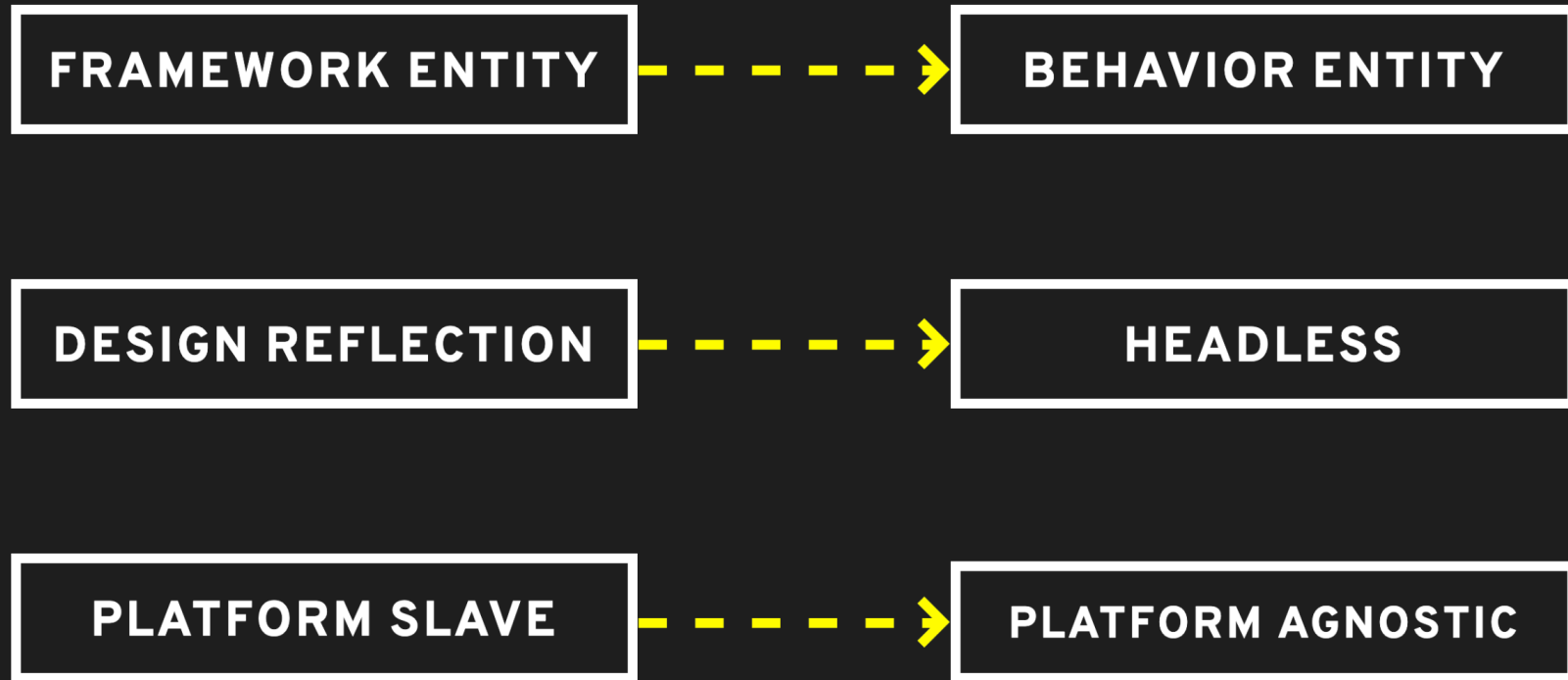
# I WISH FOR

JUST CARING ABOUT BEHAVIOUR

MORE INTEGRABILITY

CROSS WHATEVER

# WHAT IF?



# STATE MACHINES and STATECHARTS

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# THEY'RE COOL

ABSTRACT (JSON -> SCXML)

VISUALIZED

EXPLICIT

PORTABLE (JSON -> SCXML)

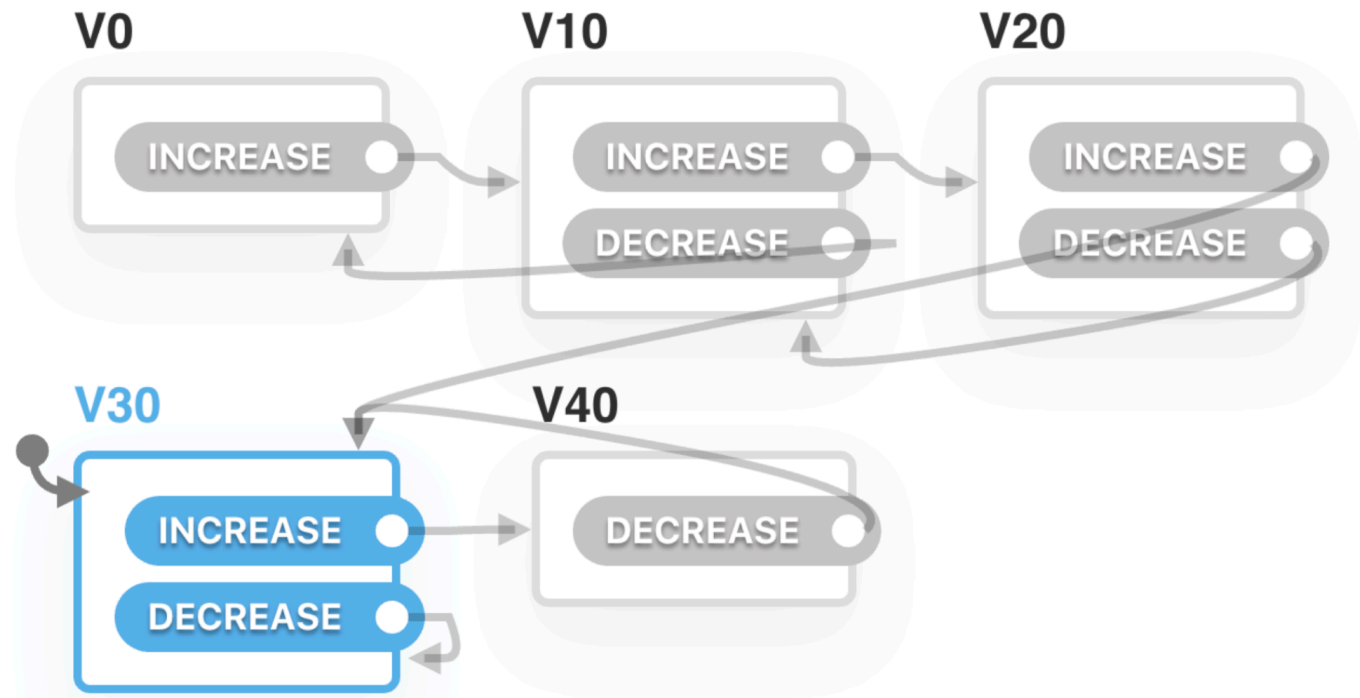


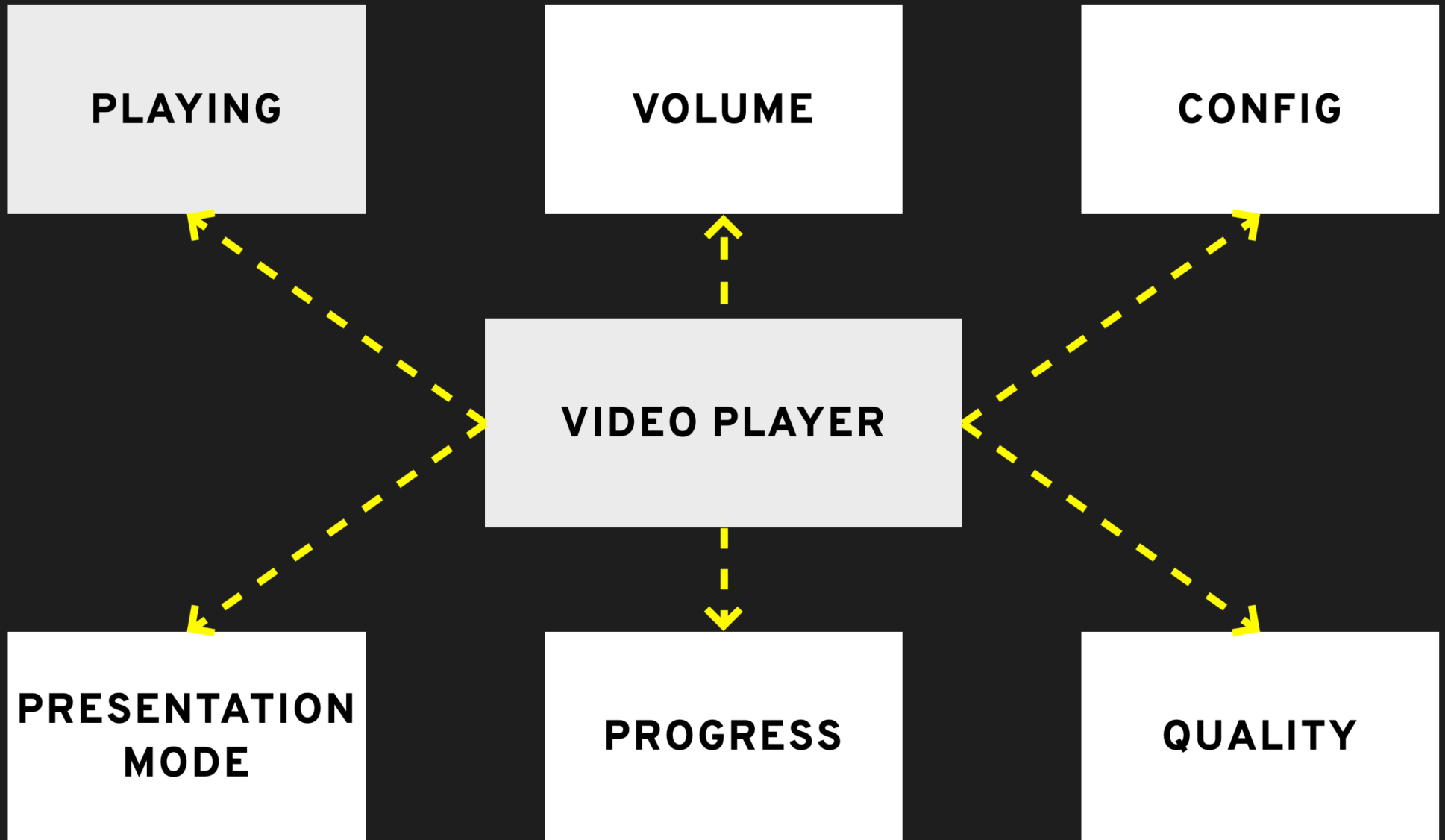
```

1 {
2   initial: "V30",
3   states: {
4     V0: {
5       on: {
6         INCREASE: "V10"
7       }
8     },
9     V10: {
10      on: {
11        INCREASE: "V20",
12        DECREASE: "V0"
13      }
14    },
15    V20: {
16      on: {
17        INCREASE: "V30",
18        DECREASE: "V10"
19      }
20    },
21    V30: {
22      on: {
23        INCREASE: "V40",
24        DECREASE: "V30"
25      }
26    },
27    V40: {
28      on: {
29        DECREASE: "V30"
30      }
31    }
32  }
33 }

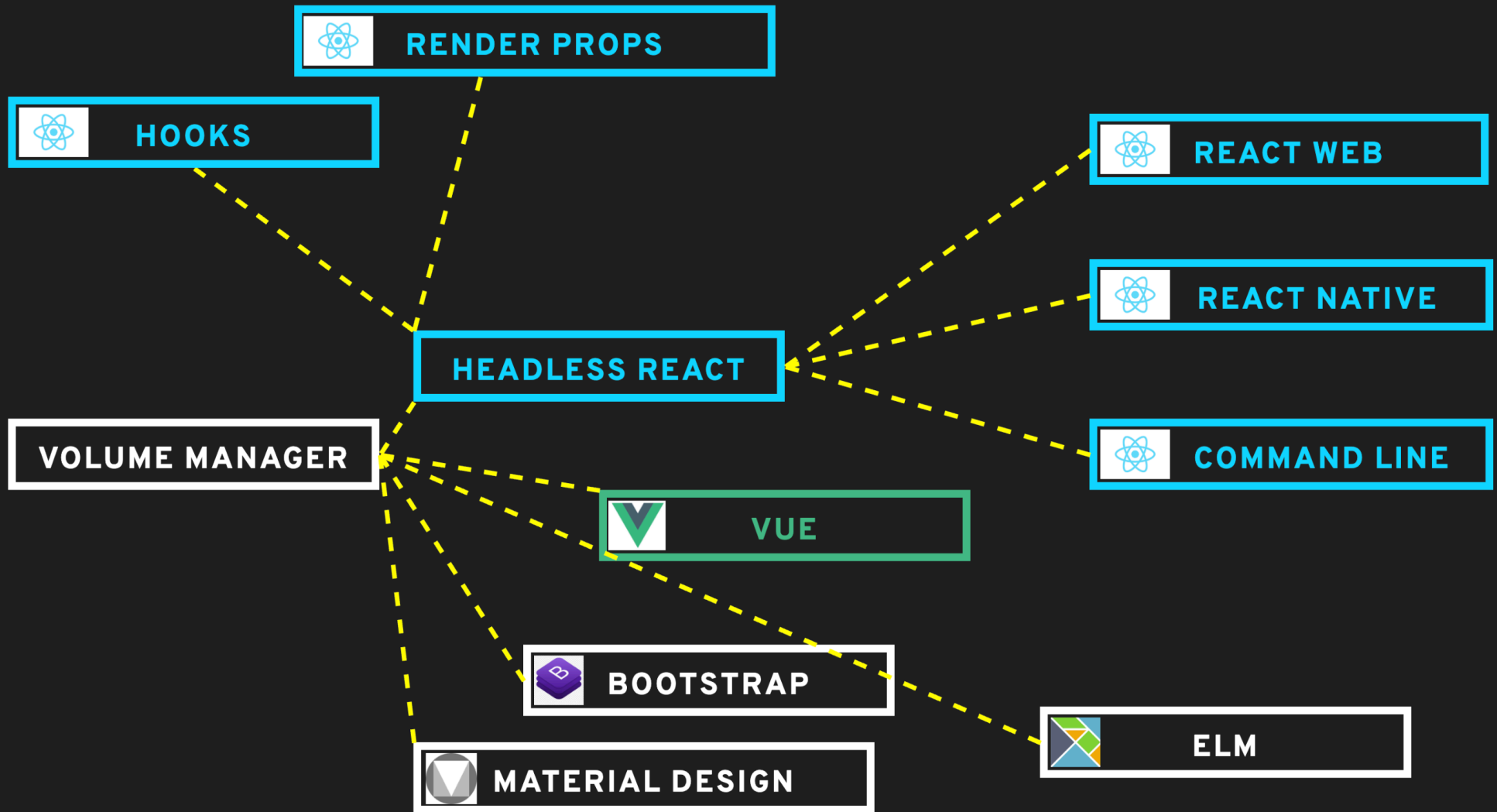
```

## Volume Manager









DEMO

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## Simple volume manager with Hooks

Volume: 50

Volume State: V50

INCREASE

DECREASE

RESET

## Slider volume manager with Hooks

Volume: 50

State: V50

Can Increase: TRUE

Can Decrease: TRUE

0  120

## Simple volume manager with Render Props

Volume: 50

Volume State: V50

INCREASE

DECREASE

RESET

## Slider volume manager with Render Props

Volume: 50





### Volume Slider

Volume: 50

State: V50

Can Increase: TRUE

Can Decrease: TRUE



### Volume Simple

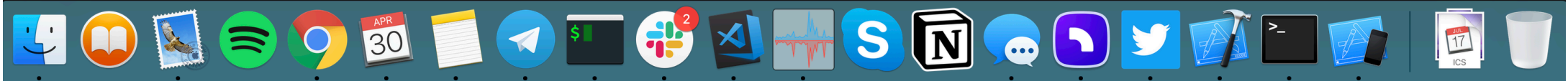
Volume: 50

State: V50

Can Increase: TRUE

Can Decrease: TRUE





Playing State: V80

INCREASE DECREASE RESET

0  120



# TAKE AWAYS

**NO, THIS IS NOT A REPLACEMENT FOR REDUX**

**YOU CAN ADOPT IT INCREMENTALLY FROM NEXT MONDAY**



[github.com/farskid/abstract-volume-manager](https://github.com/farskid/abstract-volume-manager)

[abstract-component-modeling.netlify.com](https://abstract-component-modeling.netlify.com)

