



How to update apps and perform rollouts **without going through stores from a single code?**



## Lucas Fonseca

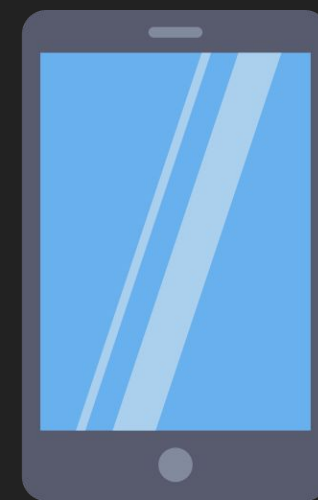
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Developer Advocate - Zup IT



# Flower shop

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# Value proposition

- Identical design and experience across platforms
- Continuity experience across platforms
- Unique customer experience
- Different settings for each business rule
- Immediate content updates without through the Stores

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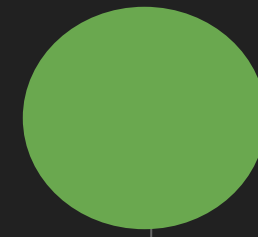
Hypothesis testing

# Hypothesis testing

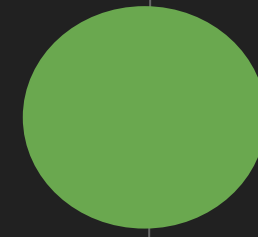
- HYPOTHESIS** It's always a statement, it's something you assume to be true but needs to be verified.
- METRICS** Unit of measure to verify that the test was successful and the hypothesis was validated.
- CRITERIA** Value you expect to achieve in the metric to validate your hypothesis.
- THESIS** A hypothesis that, given the metrics, meets the criteria



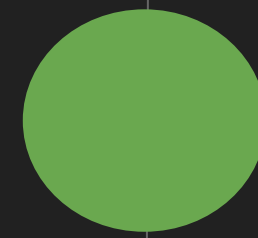
# Hypothesis testing



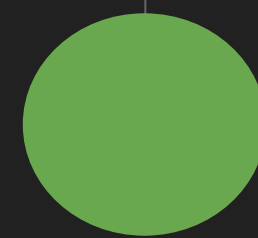
SMS is an effective communication channel for people over 35 years of age.



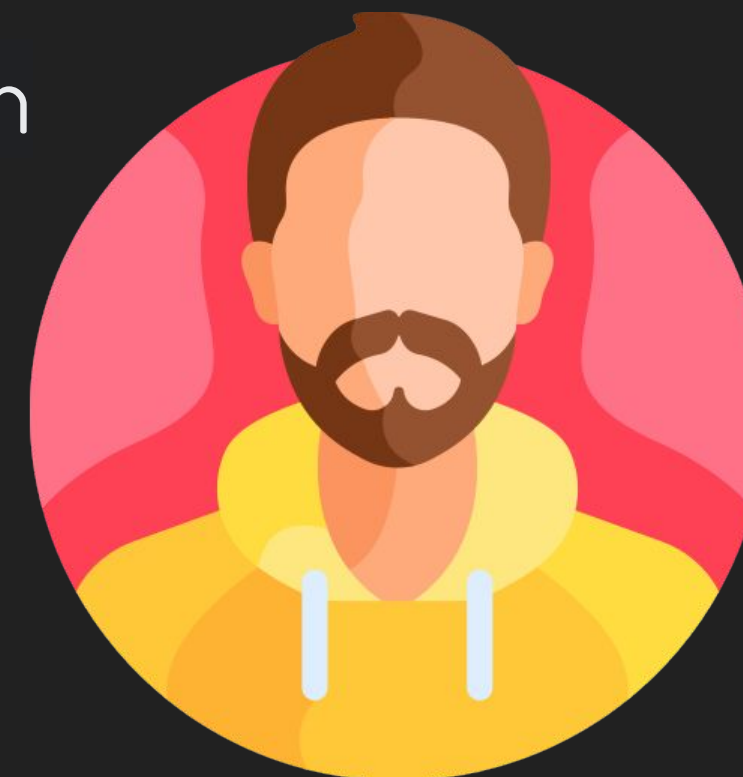
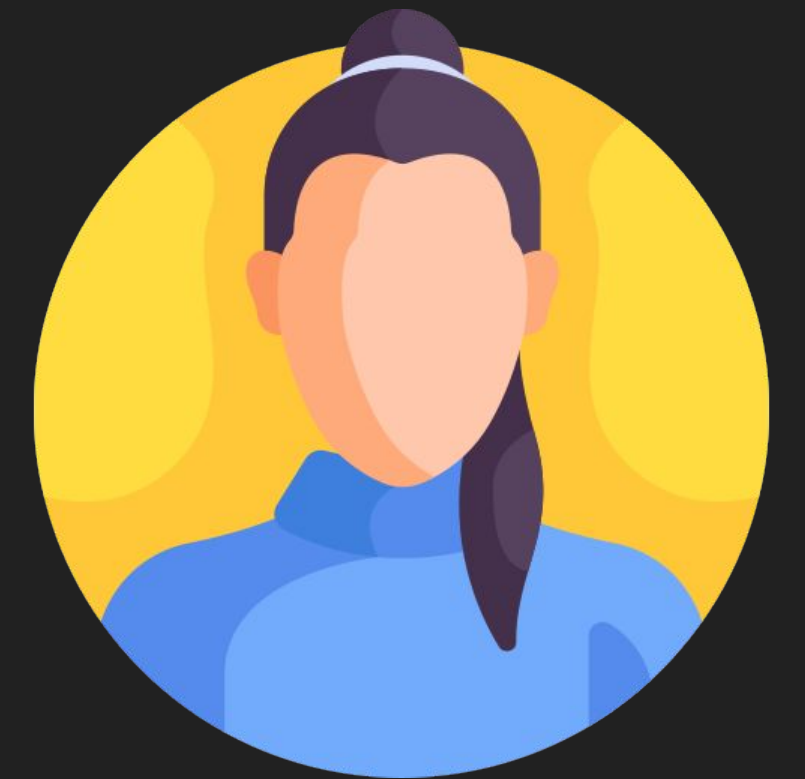
20% discount is enough for consumers to migrate from a physical solution to a fully digital one.



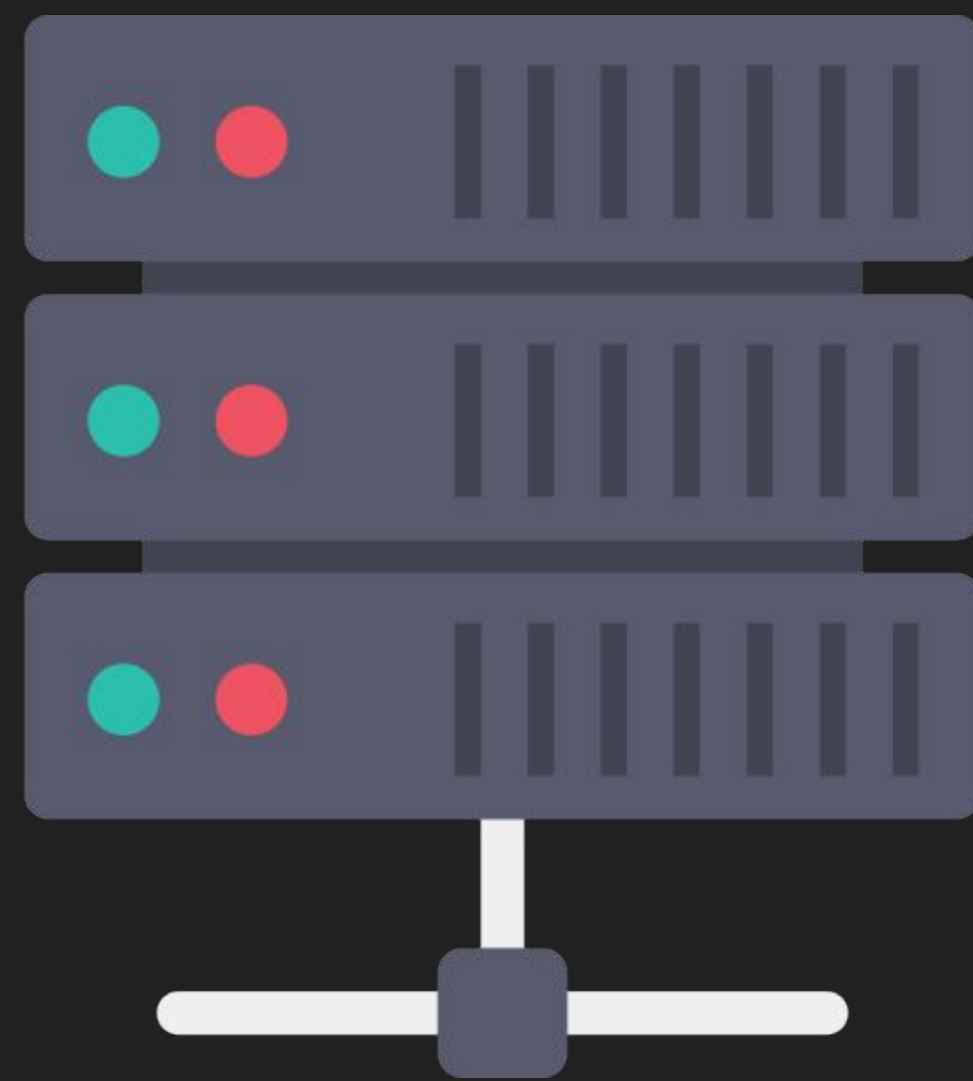
Which value proposition (A, B, or C) best communicates the benefits of my solution to my target audience.



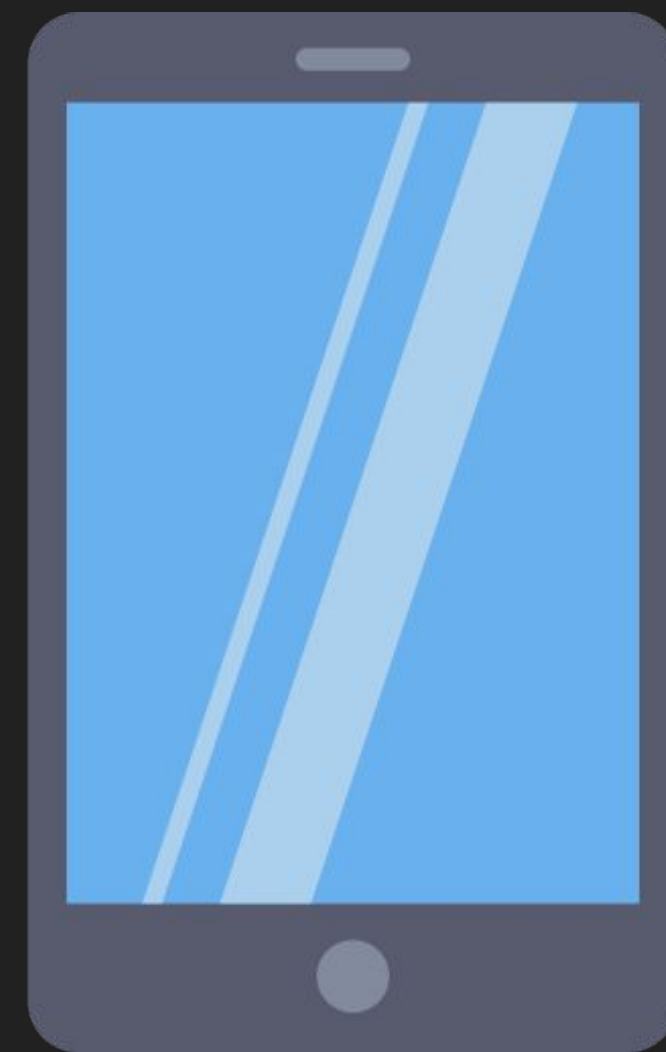
If I increase the value of products by 1.5x, my customers will perceive more value and, consequently, convert more.



# Hypothesis testing



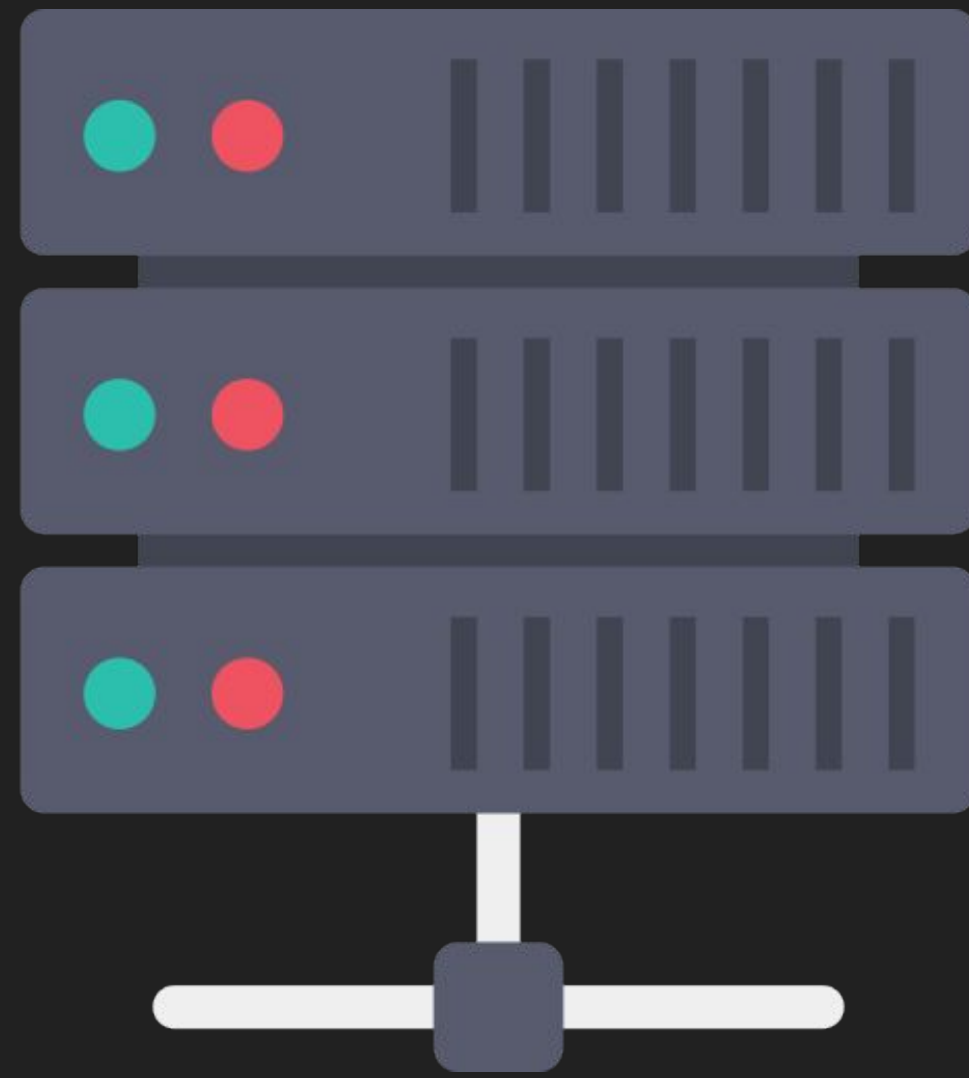
Server side



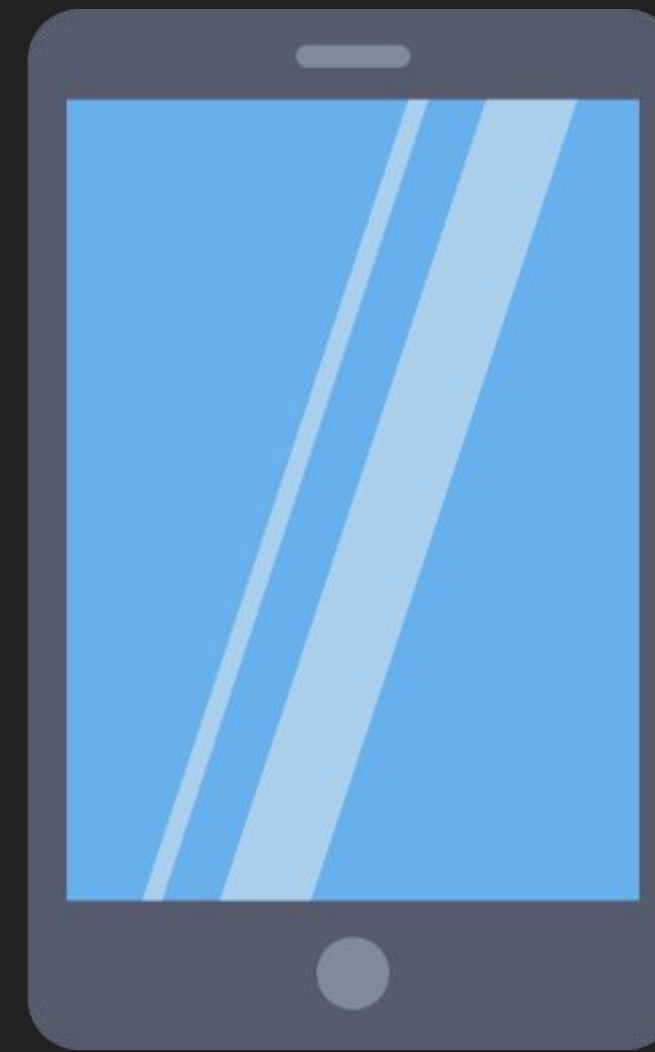
Normal way



# Hypothesis testing



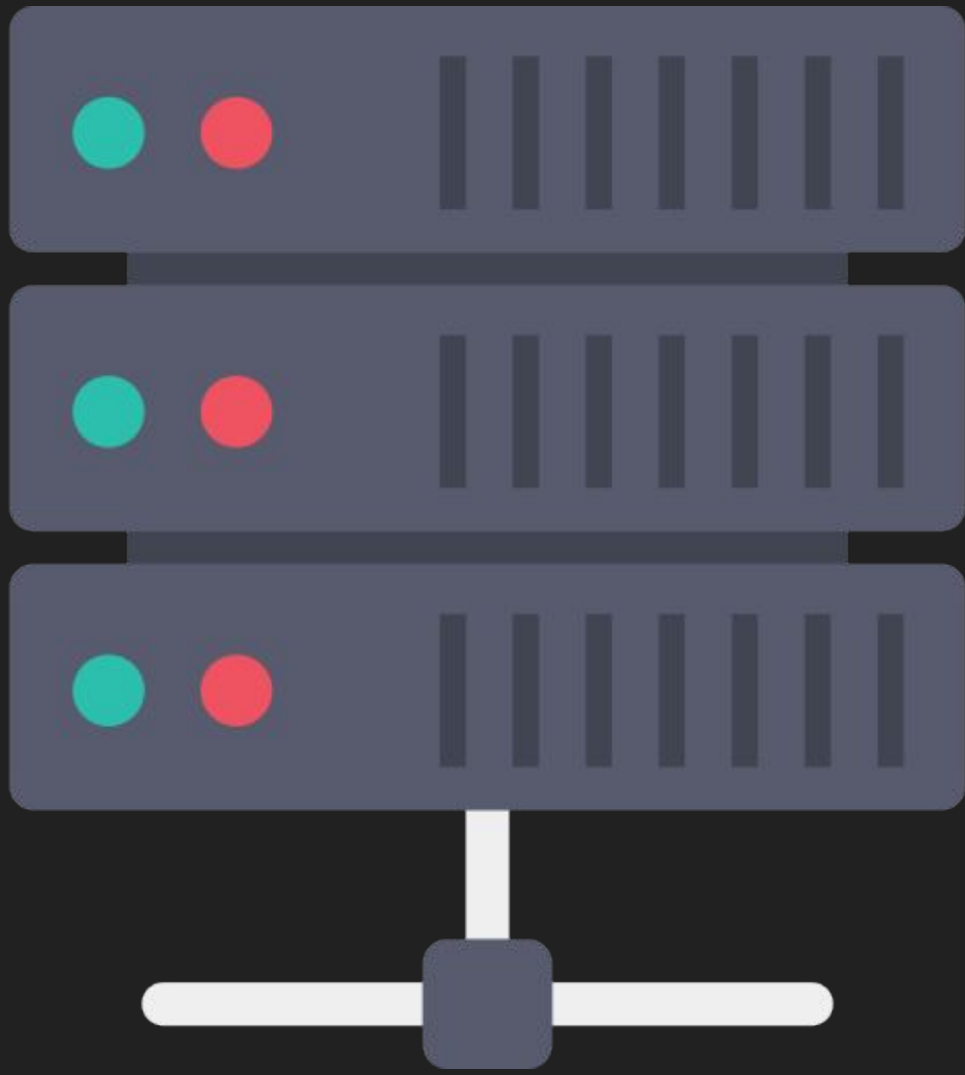
Server side



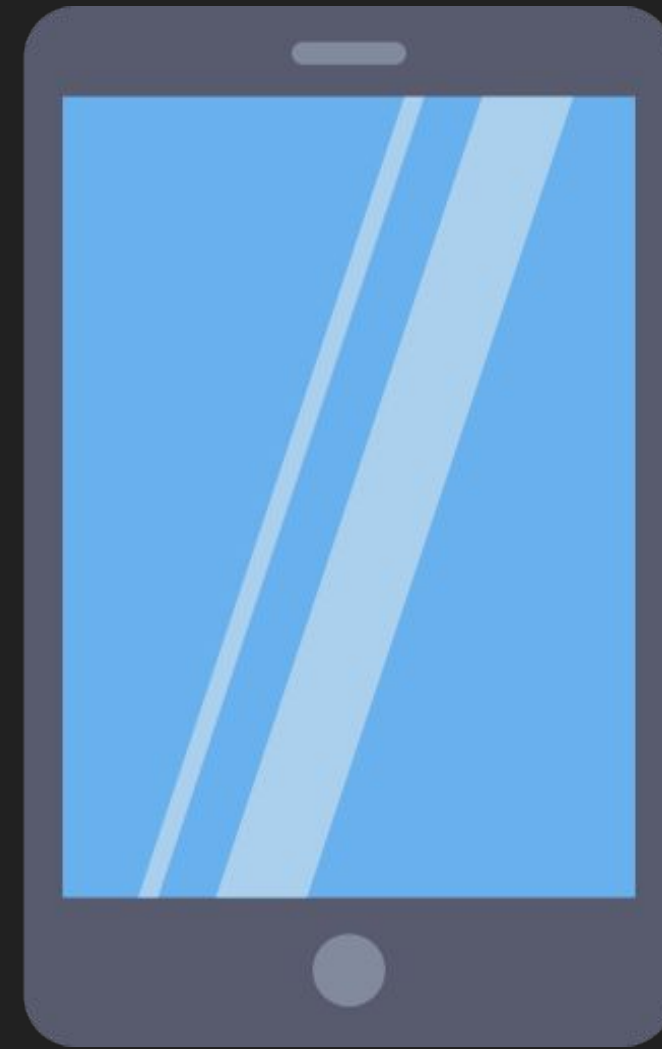
Feature Flags



# Hypothesis testing

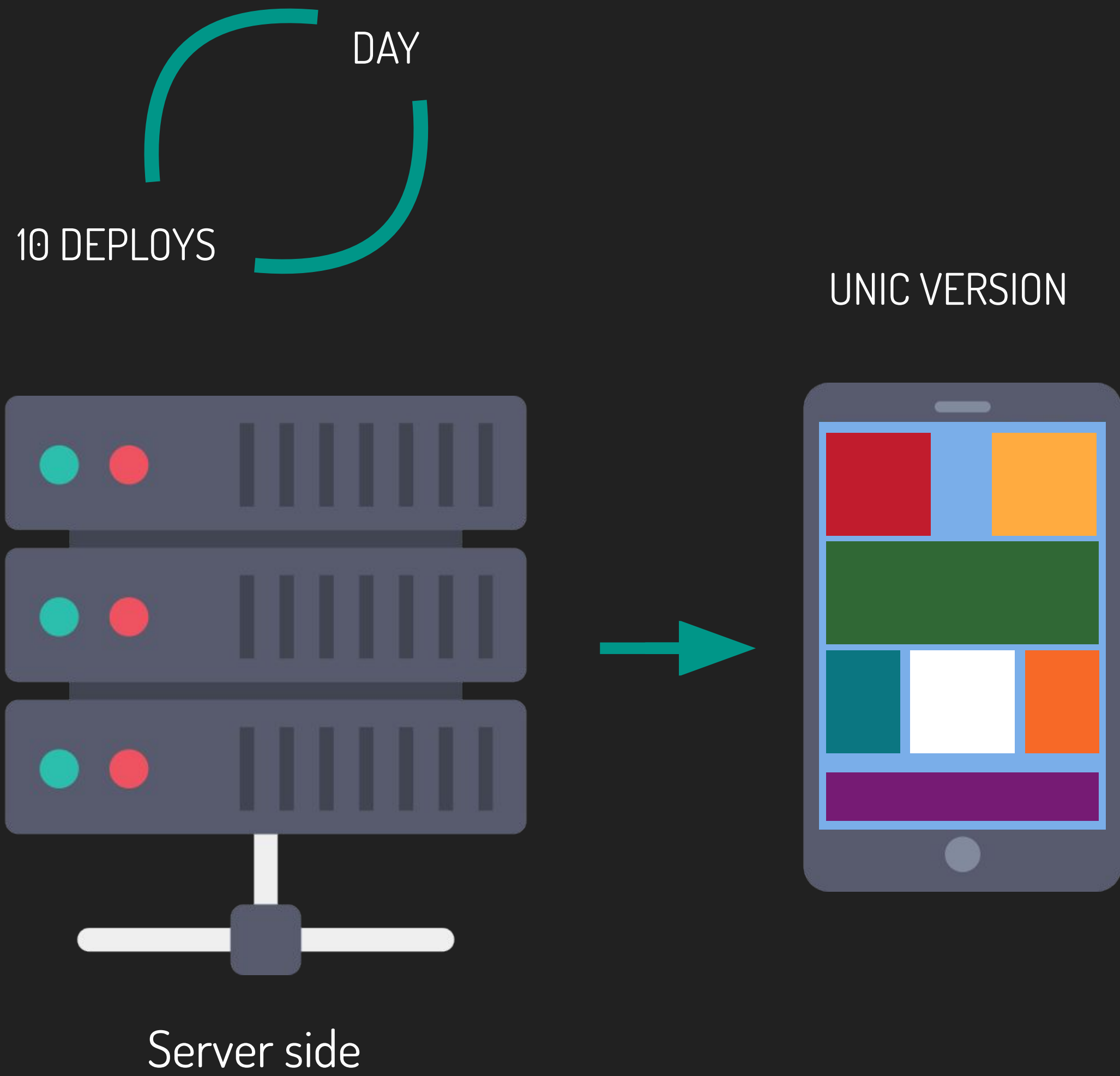


Server side

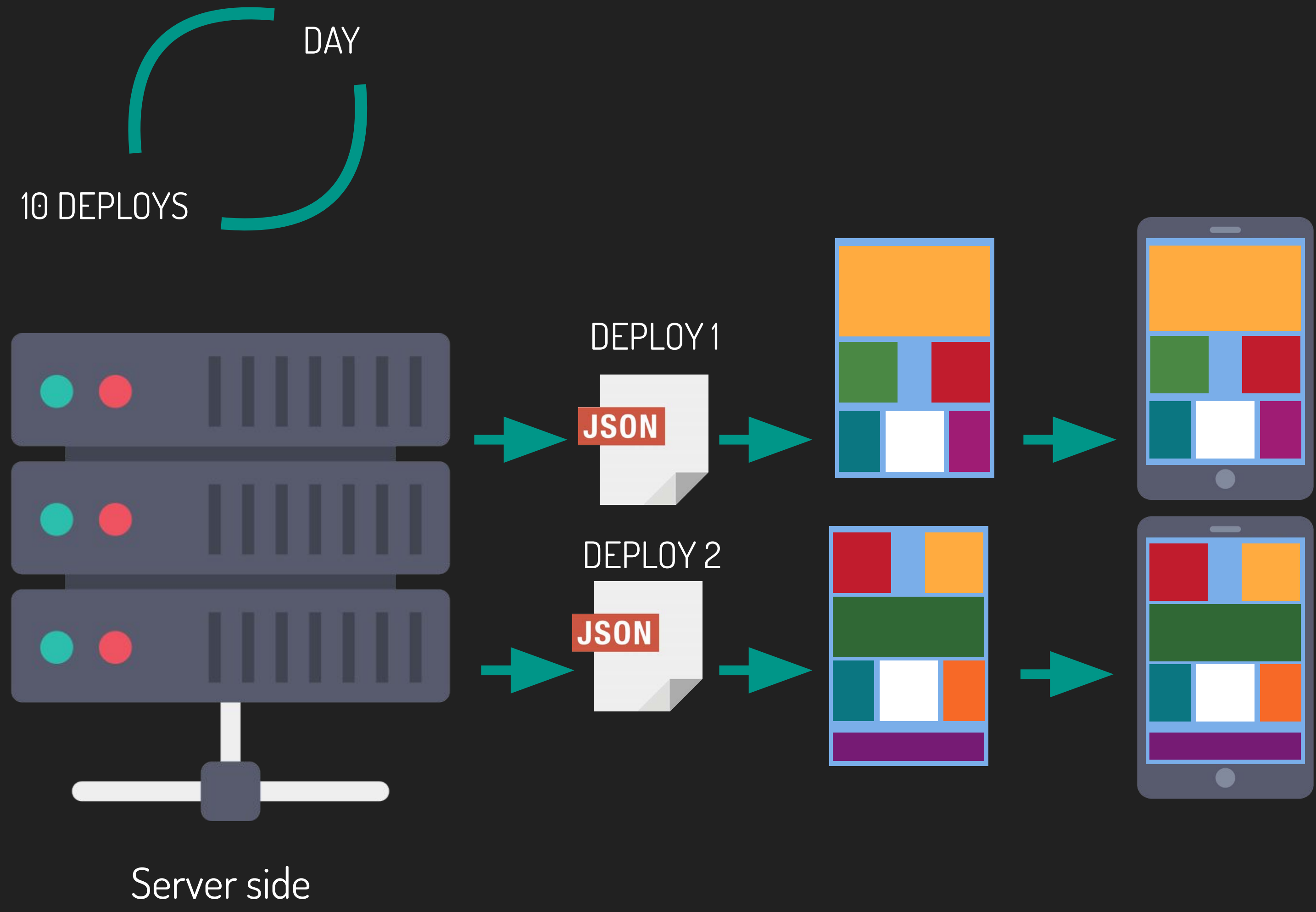


Server Driven UI

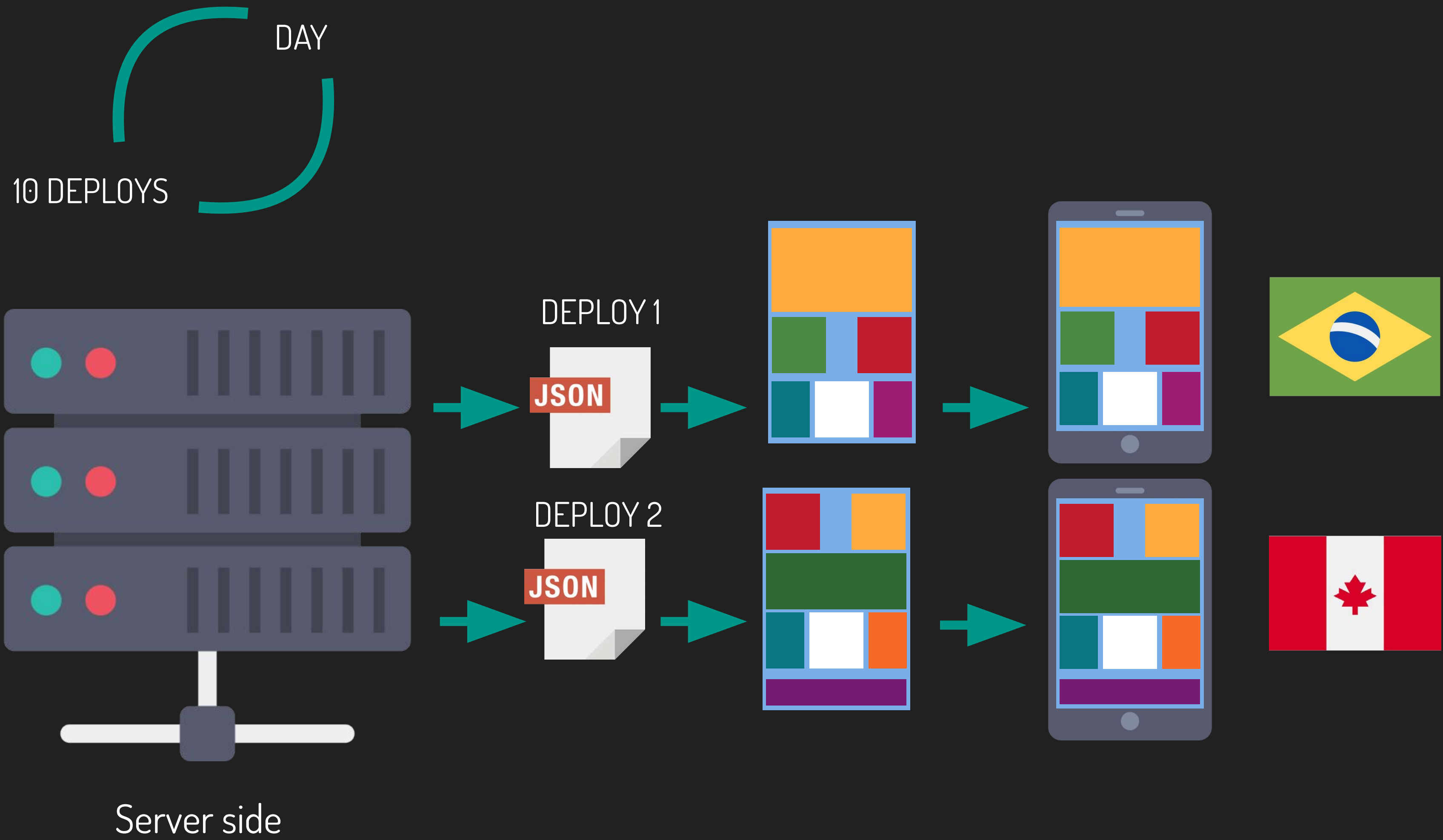
# Hypothesis testing



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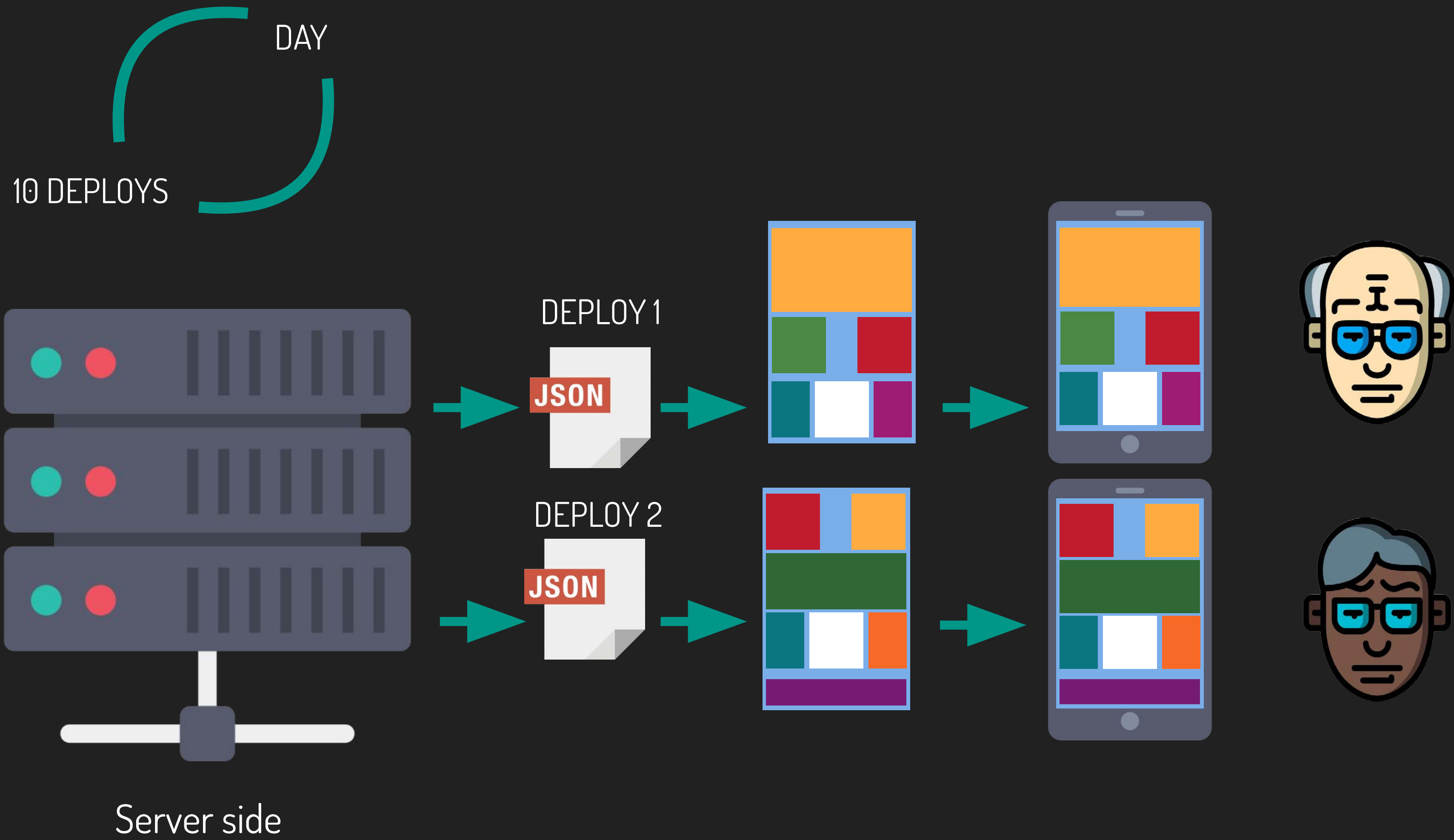


# Hypothesis testing

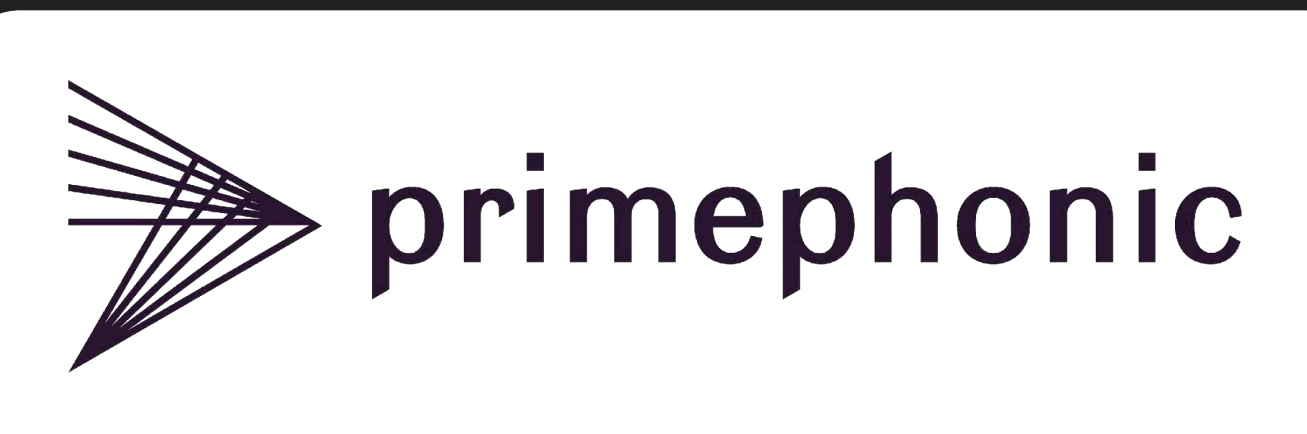




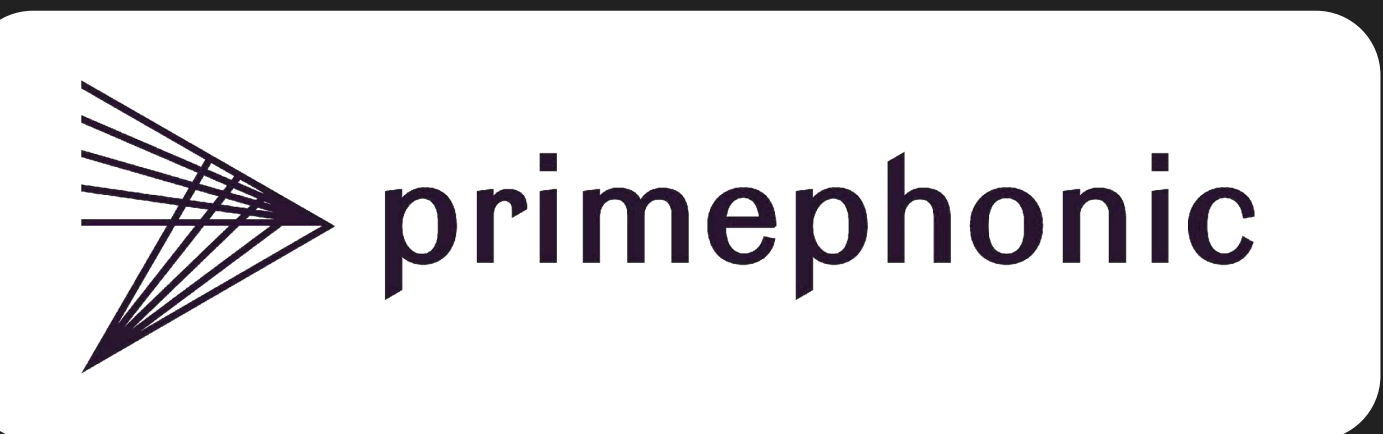
# Hypothesis testing



# Who uses ?



Who uses ?

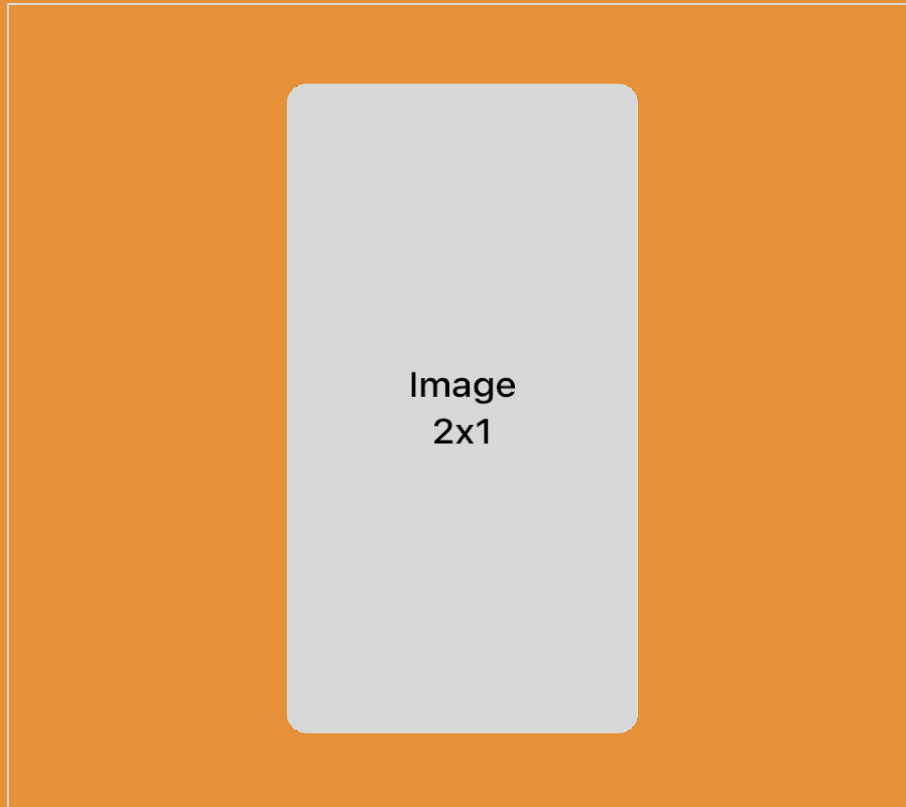


# Server-Driven UI

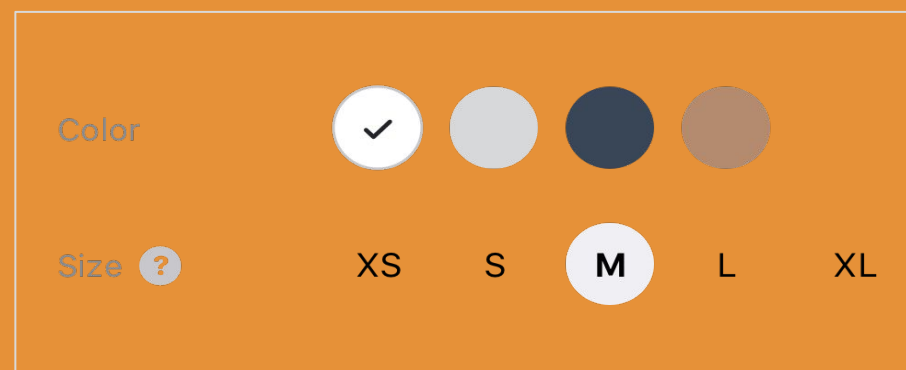
## What we need?



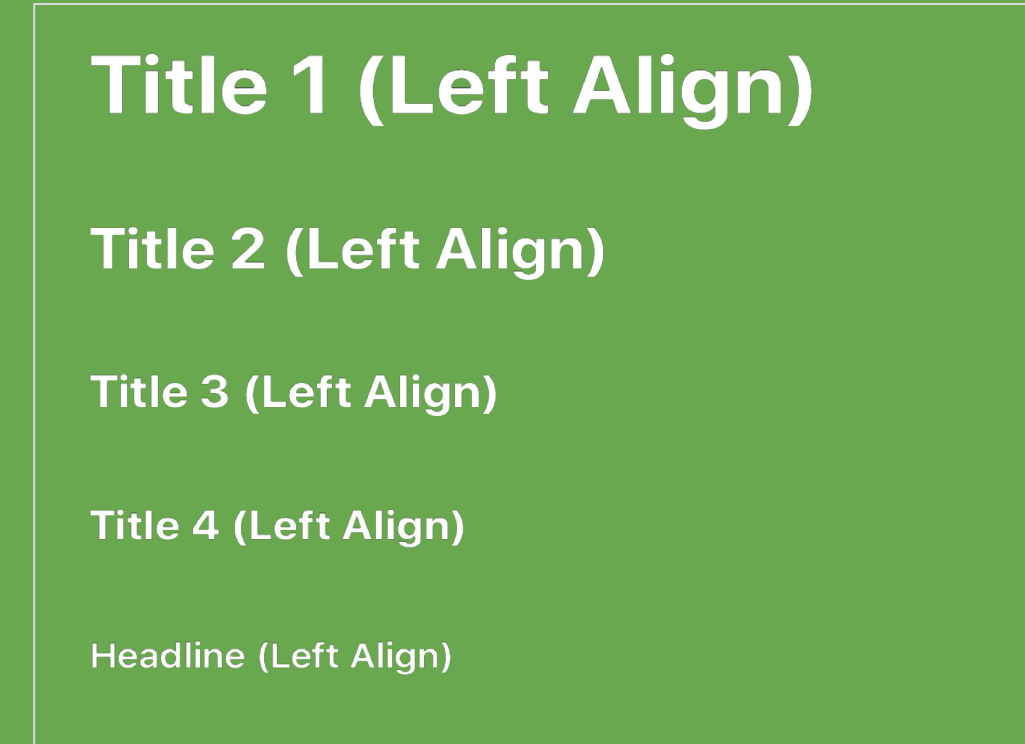
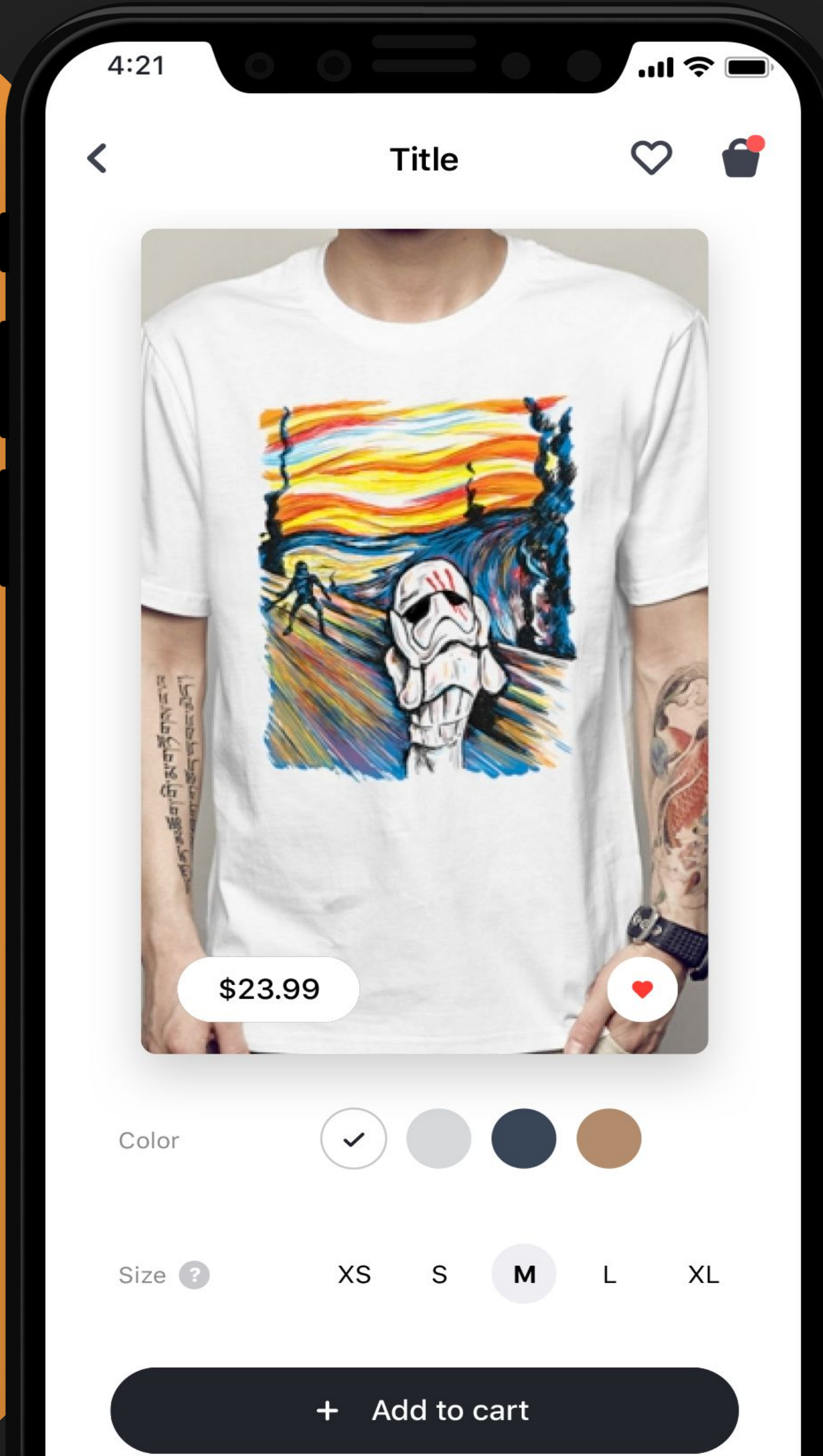
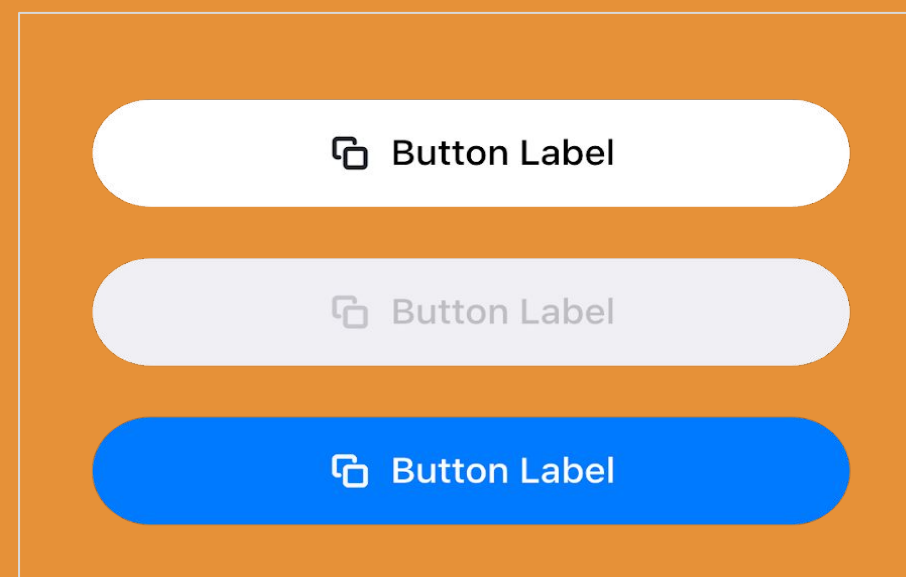
# Design System



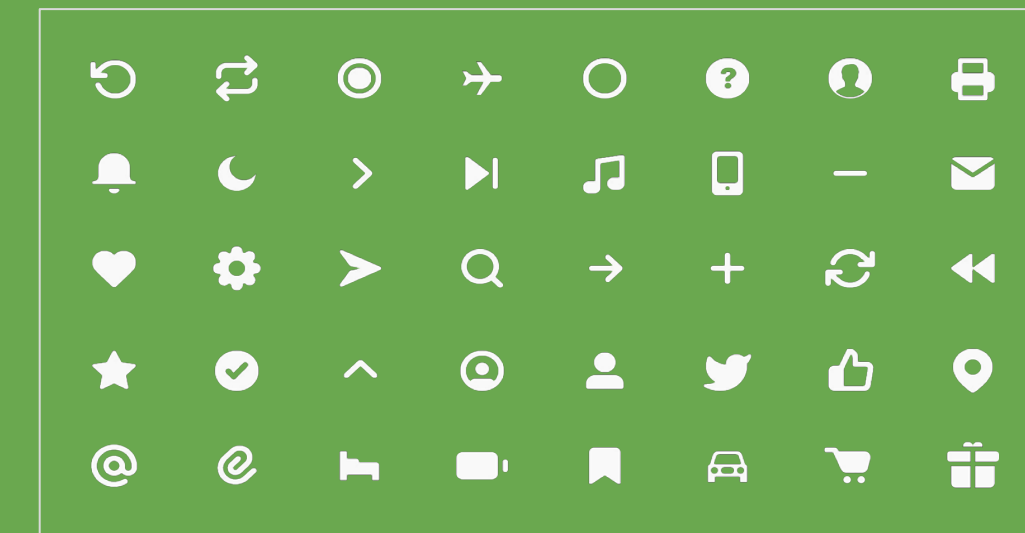
Image



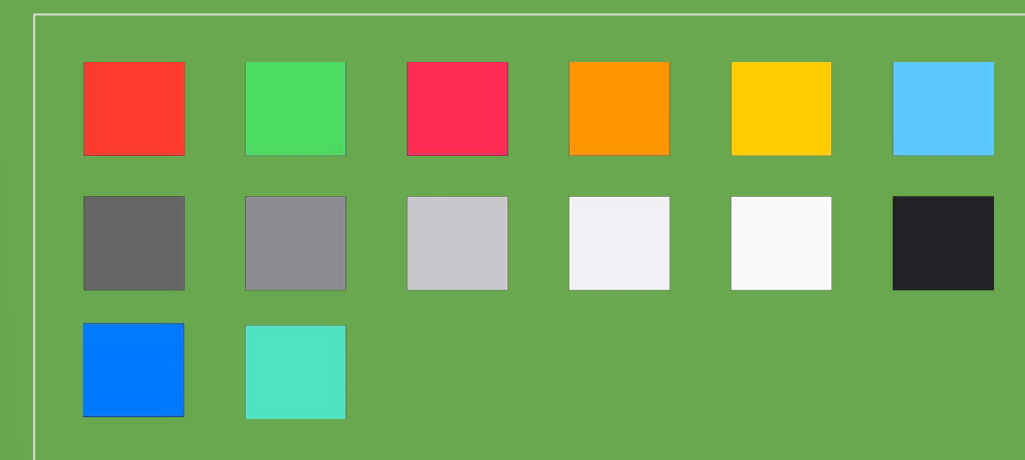
Variants



Text



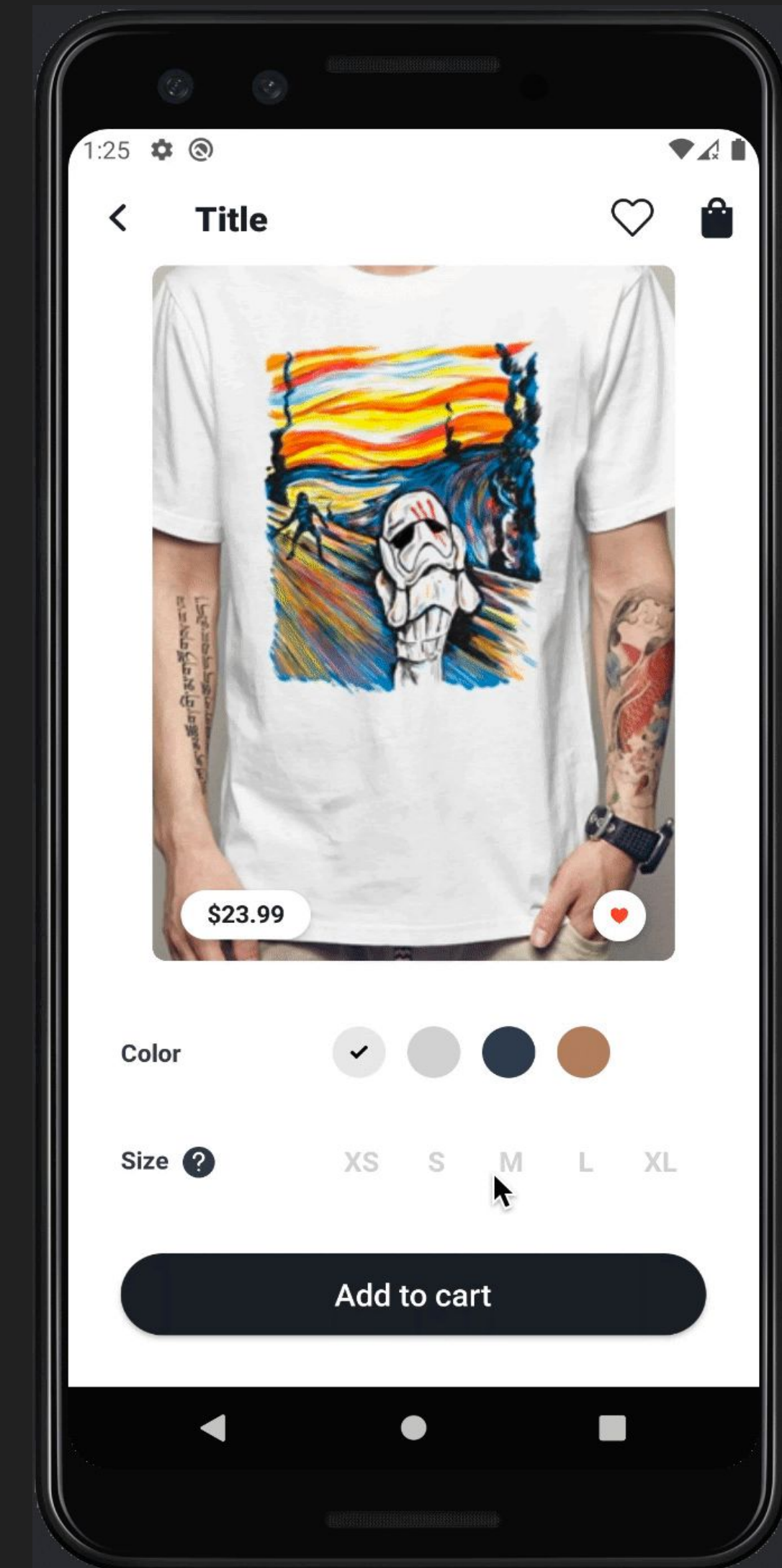
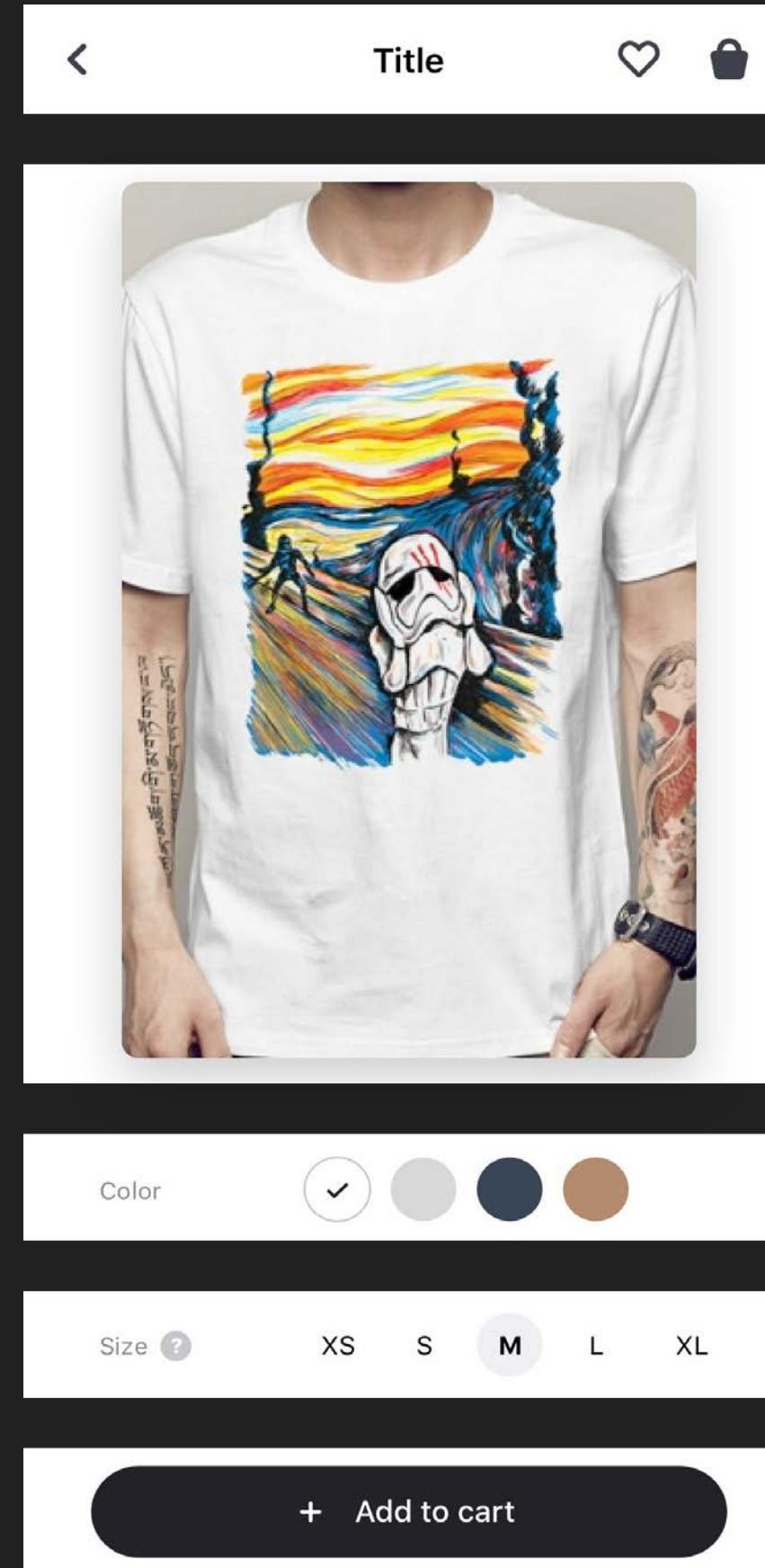
Icons





# JSON Contract

```
{
  "_beagleComponent_": "beagle:screenComponent",
  "navigationBar": {
    "title": "Title",
    "showBackButton": true,
    "styleId": "customNavigation",
    "navigationBarItems": [
      {
        "_beagleComponent_": "beagle:navigationBarItem",
        // ...
      },
      {
        "_beagleComponent_": "beagle:navigationBarItem",
        // ...
      }
    ]
  },
  "child": {
    "_beagleComponent_": "beagle:container",
    "children": [
      {
        "_beagleComponent_": "custom:outfitimage",
        // ...
      },
      {
        "_beagleComponent_": "custom:colorSelector",
        // ...
      },
      {
        "_beagleComponent_": "custom:sizeSelector",
        // ...
      },
      {
        "_beagleComponent_": "beagle:button",
        "text": "Add to cart",
        "styleId": "customButton",
      }
    ]
  }
}
```



## When to use SD-UI

- Dynamic flows that contain many business rules
- When you want to apply A/B tests
- When you have recurring screen layout changes
- Different layout settings for each business rule
- When you need immediate content updates without through the Stores

## When NOT to use SD-UI

- Application does not have a mature Design System
- Recurring changes to the design system
- Static screens or fluxes that don't change often
- Source code doesn't have layers that separate business rules from UIs
- Your service layer doesn't support scaling and A/B testing

# Server-Driven UI

How can I do?

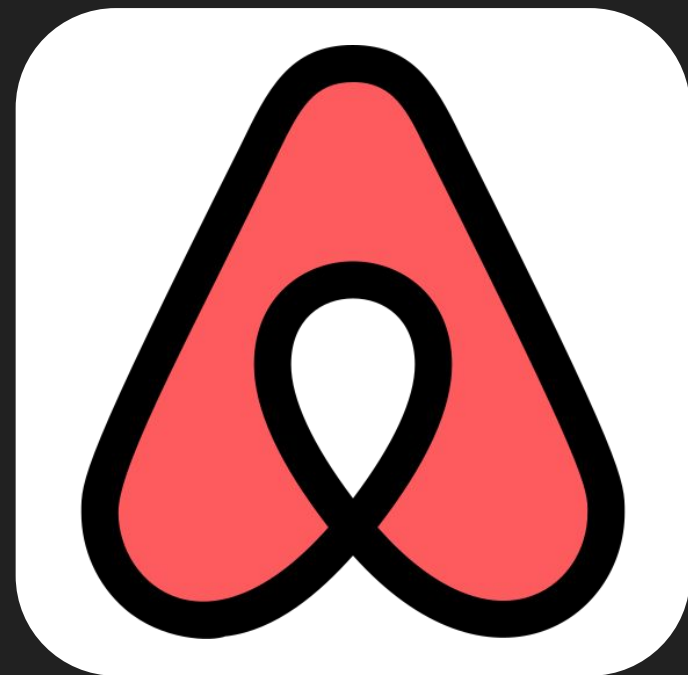


# Frameworks

*Flipkart*



Proteus



Lona



Graywter



Litho



**Beagle**

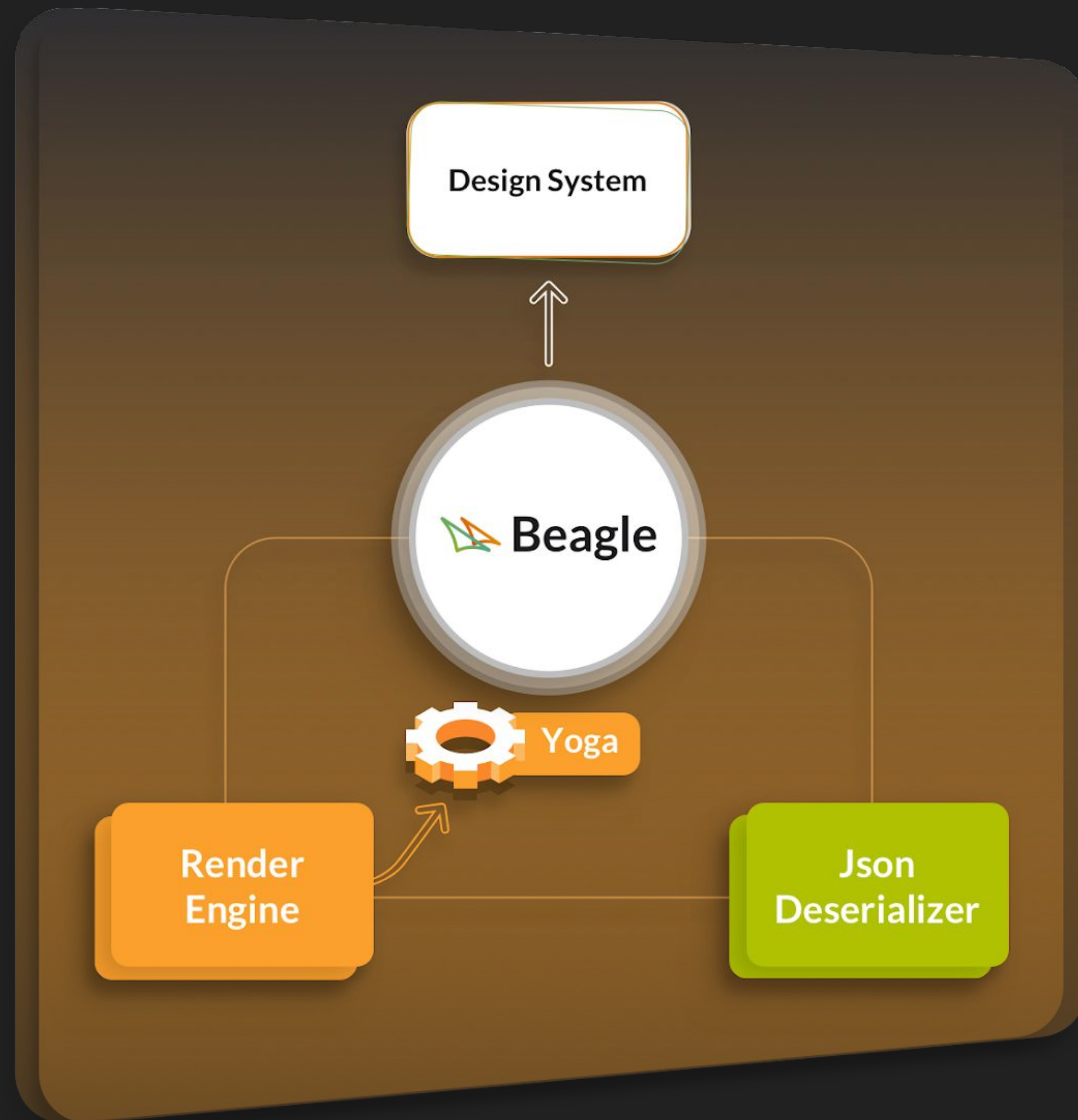
Font:

<https://betterprogramming.pub/exploring-server-driven-ui-cf67b3da919>





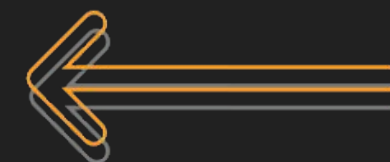
## Android / IOS



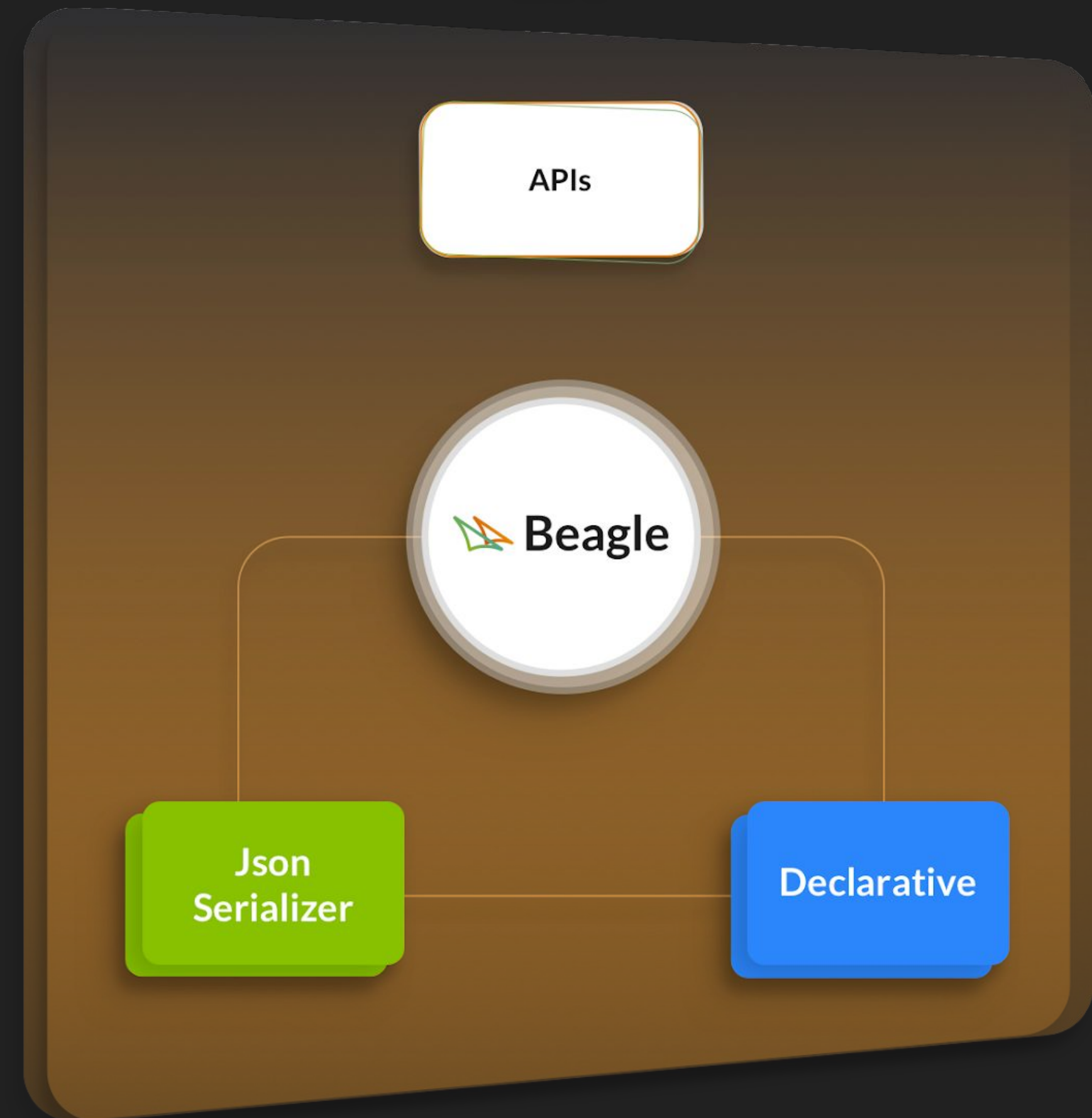
Request



Json



## BFF



# Let's code

