

# 05

## Virtual DOM

## Objectives for This Lesson

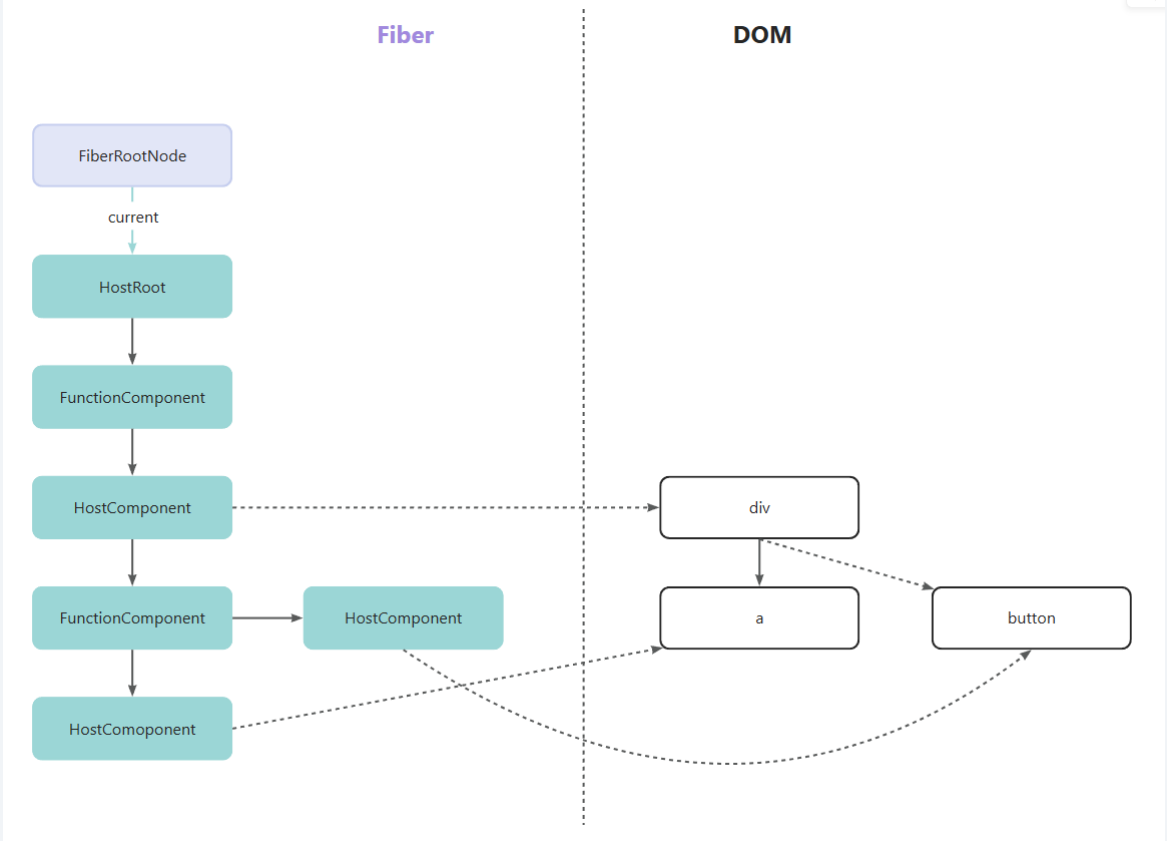
👉 What exactly the Virtual DOM is?

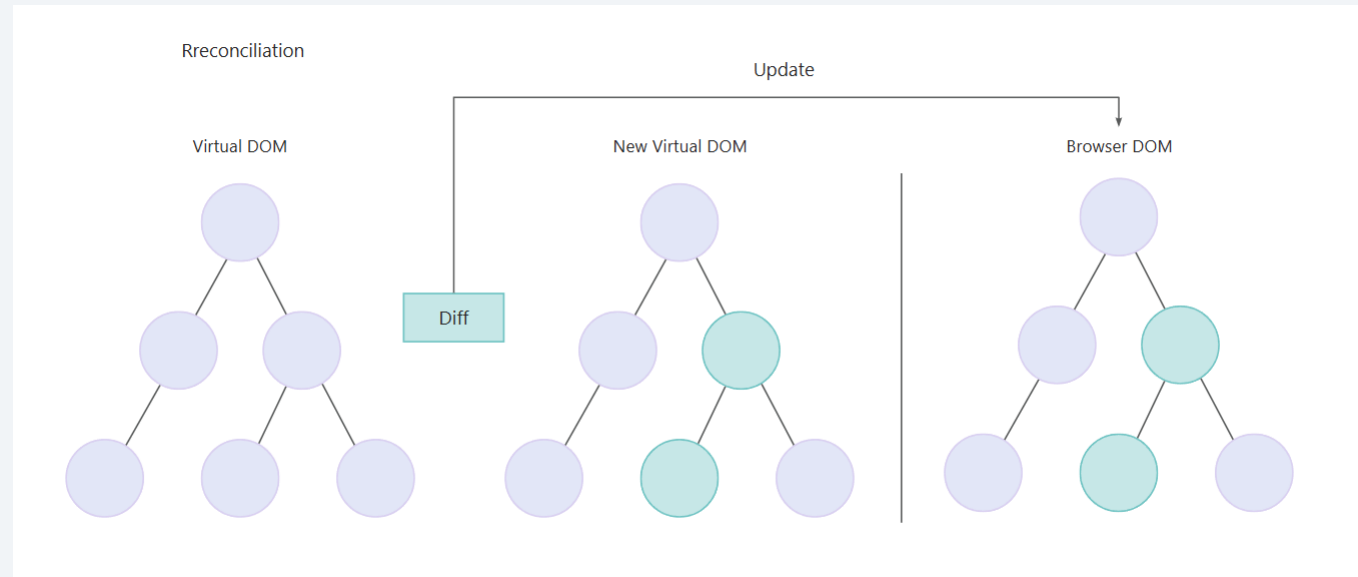
👉 Why does React use Virtual DOM?



The Virtual DOM is primarily used to improve the performance of JavaScript's manipulation of the DOM tree.







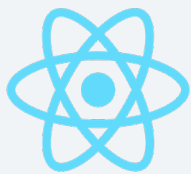
## What is Virtual DOM?

Real DOM → various types of nodes

Virtual DOM → describes the features of the  
DOM in the form of JavaScript  
objects

## What is Virtual DOM?

👉 The Virtual DOM is actually just a JavaScript object, which describes the structure and properties of a real DOM element in a lightweight format.

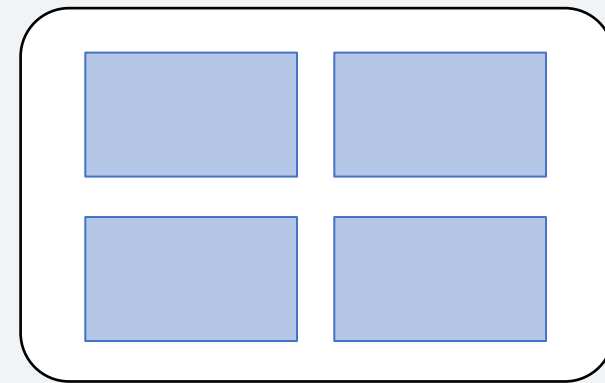
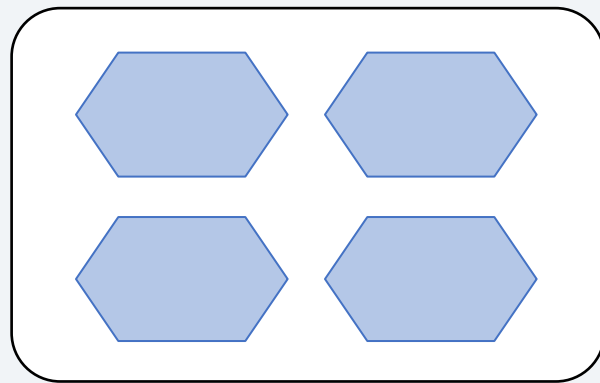
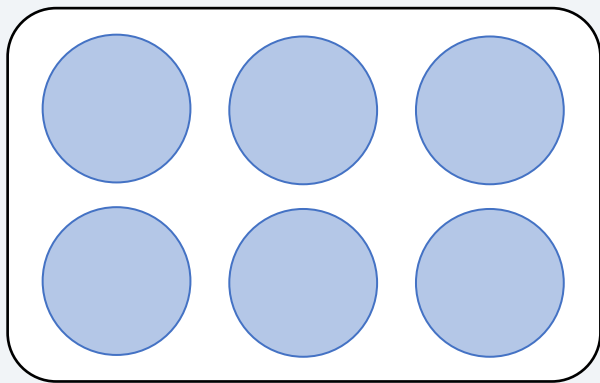


**data**

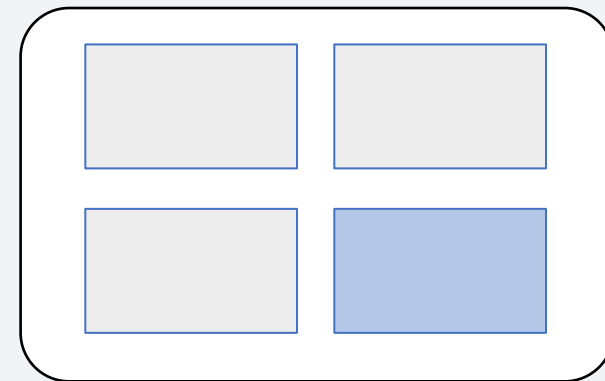
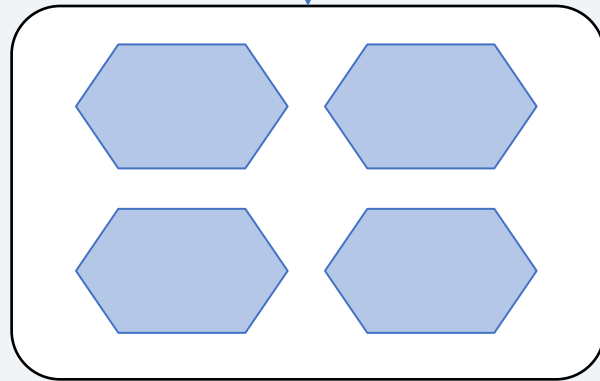
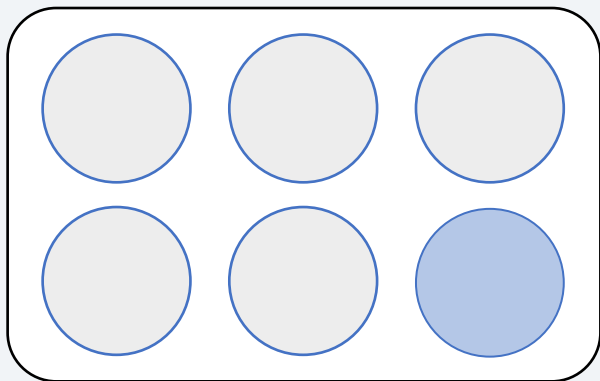
**vDom**

**rDom**

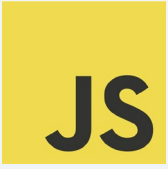
**init**



**update**



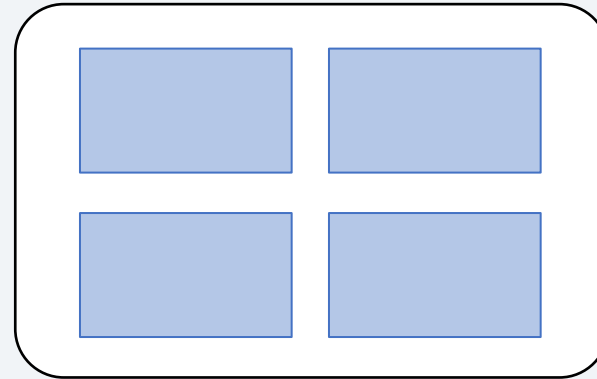
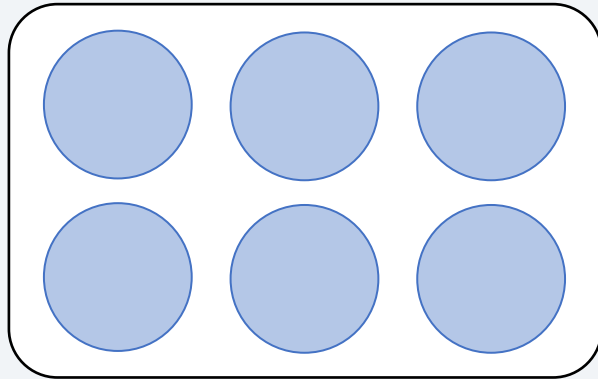




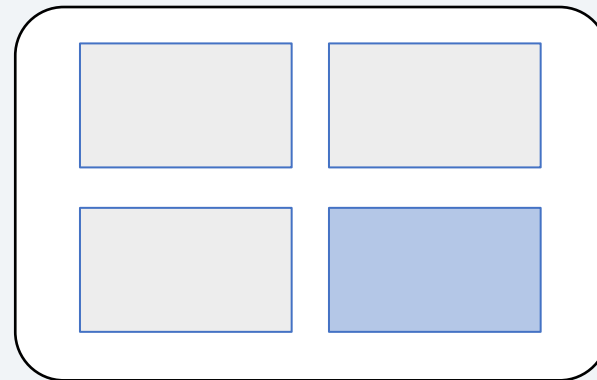
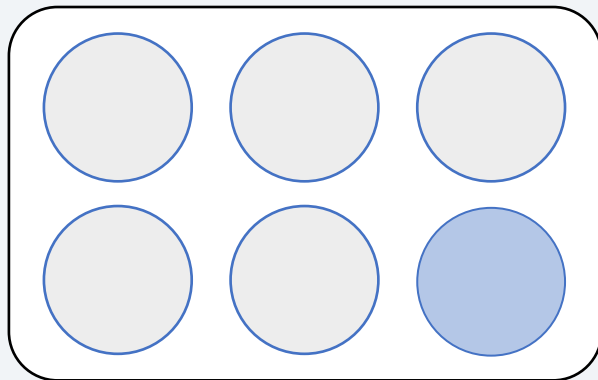
data

rDom

init



update



## Reason 1

React core design philosophy is to map data to the interface



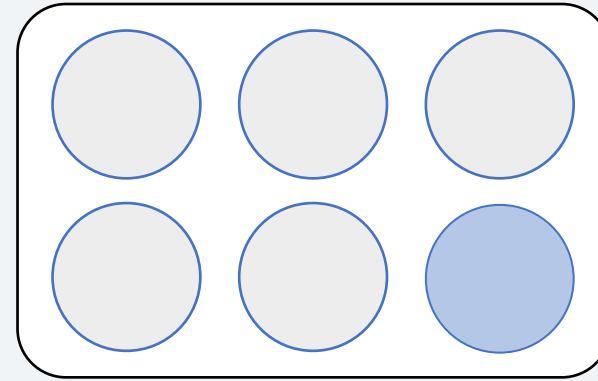
How do data and the interface correspond?

complex

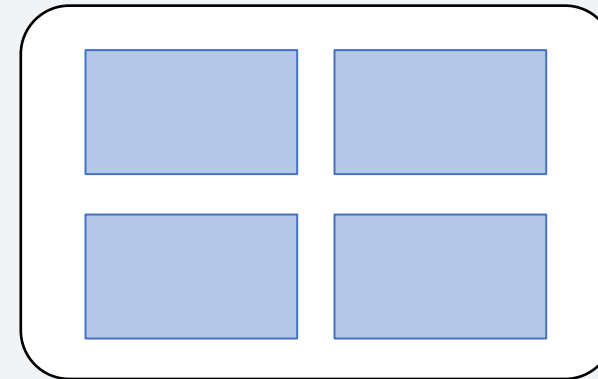
## Why Virtual DOM?

### Reason 1

**data**

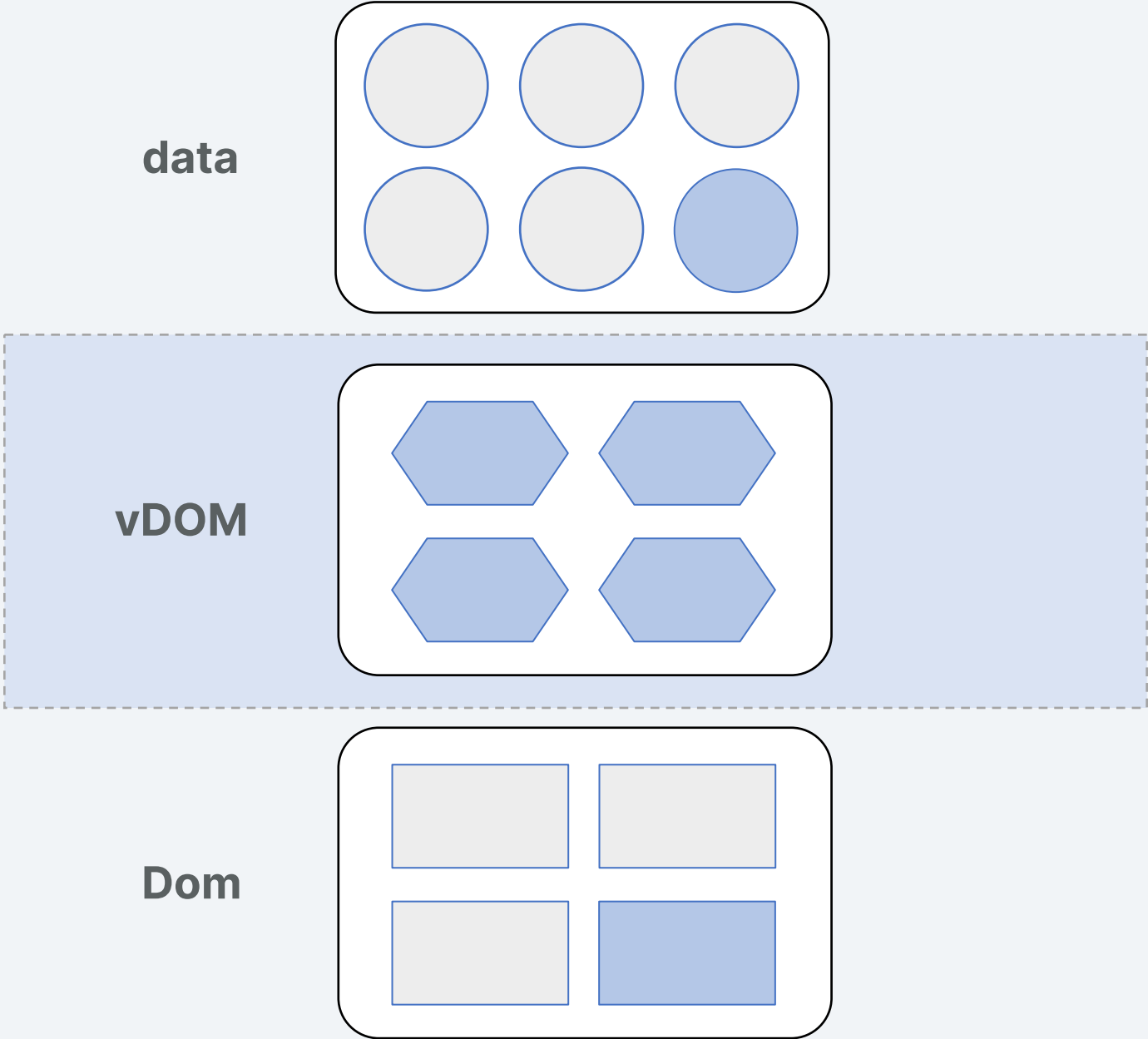


**Dom**



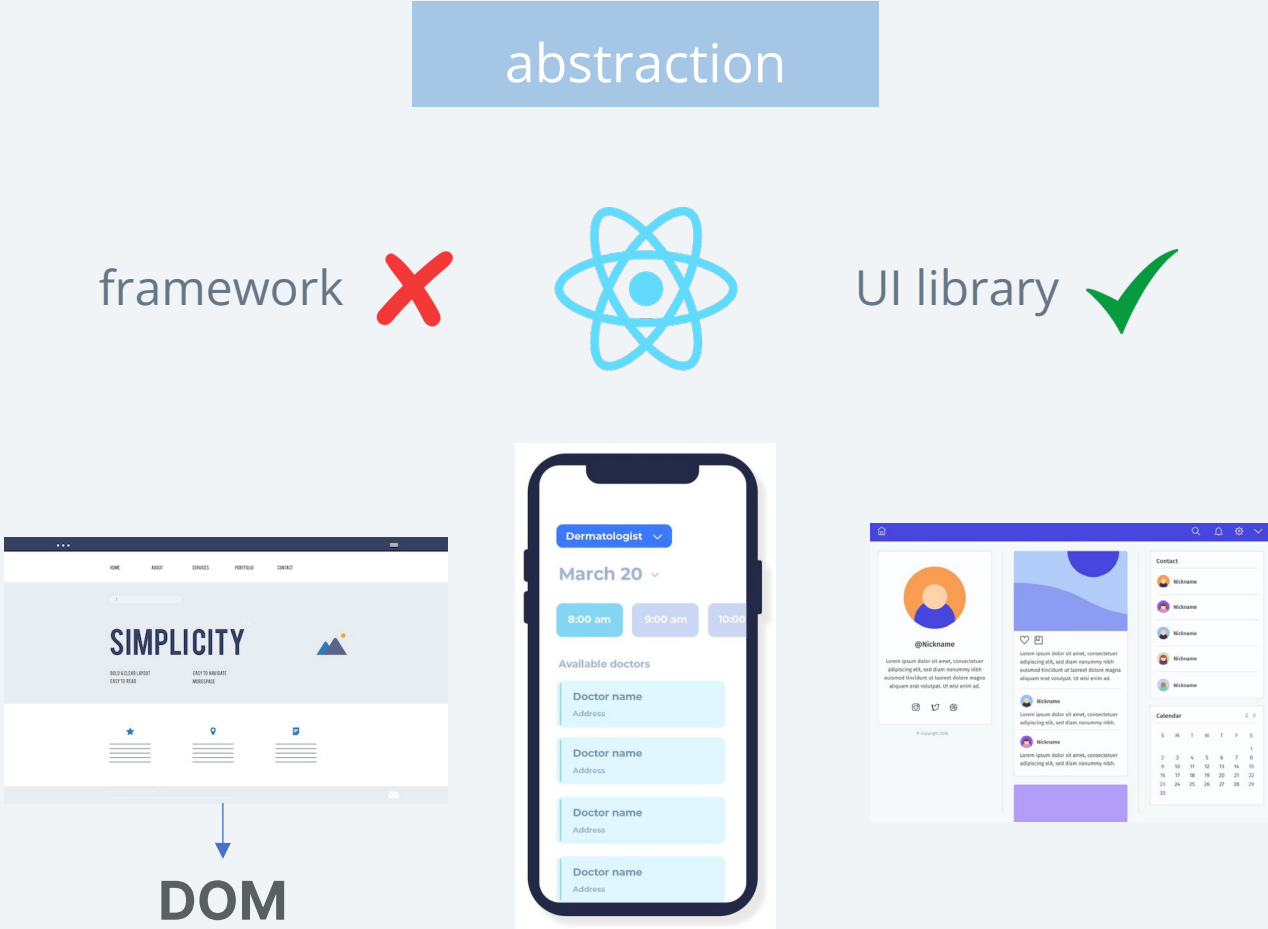
Why Virtual DOM?

Reason 1



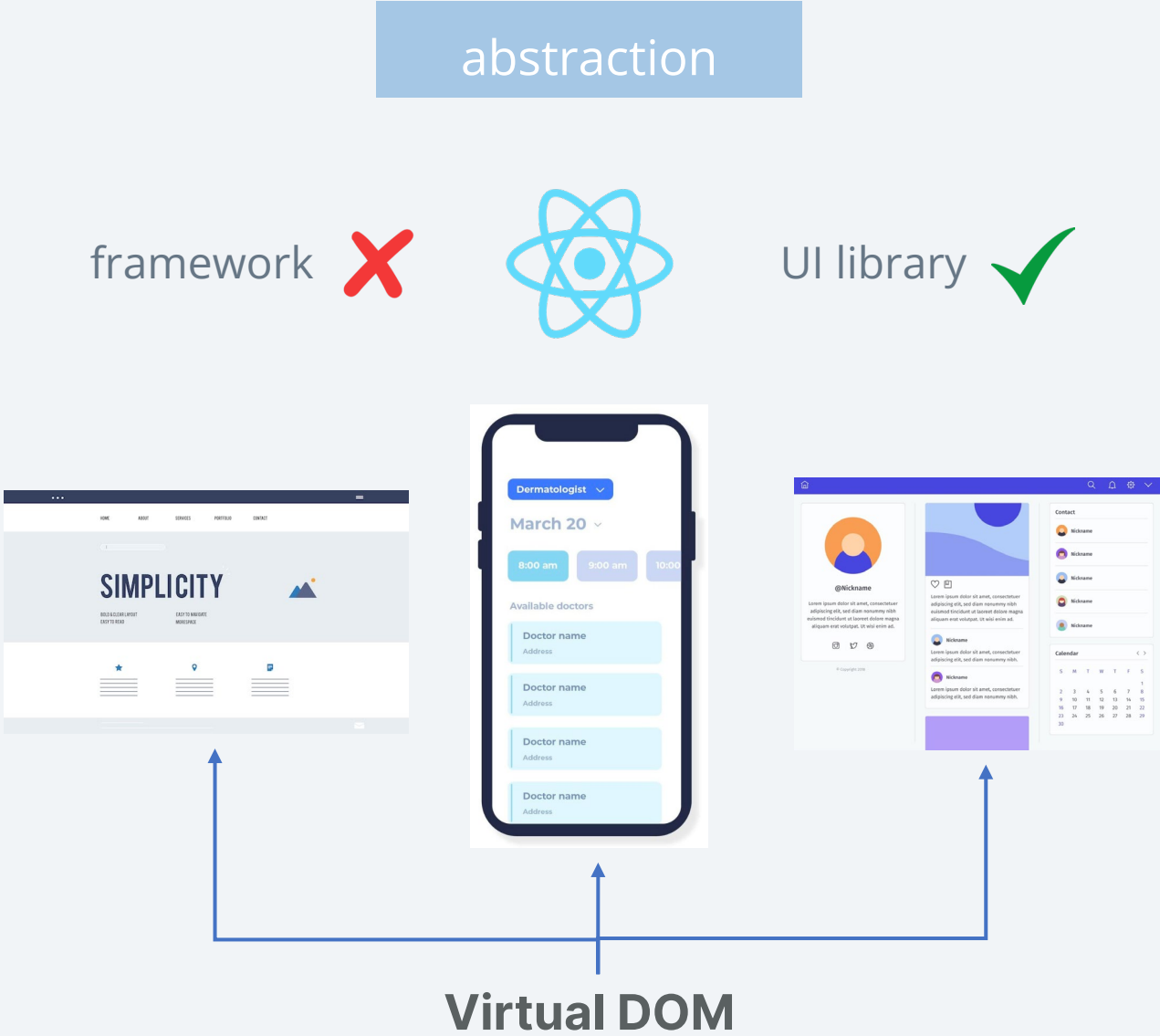
Why Virtual DOM?

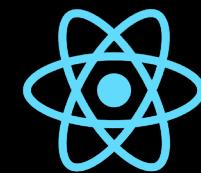
Reason 2



Why Virtual DOM?

Reason 2





Thanks for watching