GDSC SSU SEMINAR

WEB FRONTEND

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View & State of the Normal Nor

HTML, CSS & JavaScript

```
<!DOCTYPE html>
<html>
<head>
    <title>2nd GDSC Soongsil</title>
</head>
<body>
    <div class="container">
        Hello!
    </div>
</body>
</html>
```

```
const container =
  document.querySelector('.container');

container.addEventListener('click', () => {
  console.log("Hello World!");
});
```

```
<!DOCTYPE html>
<html>
<head>
    <title>2nd GDSC Soongsil</title>
</head>
<body>
{% for o in some_list %}
    <div class="container">
        Hello {{ o }}!
        </div>
{% endfor %}
</body>
</html>
```

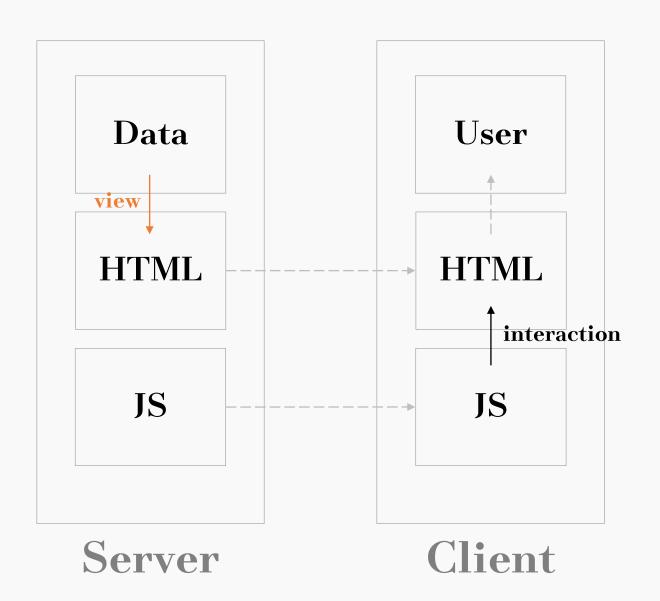
```
const container =
  document.querySelector('.container');

container.addEventListener('click', () => {
  console.log("Hello World!");
});
```

```
<!DOCTYPE html>
<html>
<head>
 <title>2nd GDSC Soongsil</title>
</head>
<body>
 <div class="container">
   Hello a!
 </div>
 <div class="container">
   Hello b!
 </div>
 <div class="container">
   Hello c!
 </div>
</body>
</html>
```

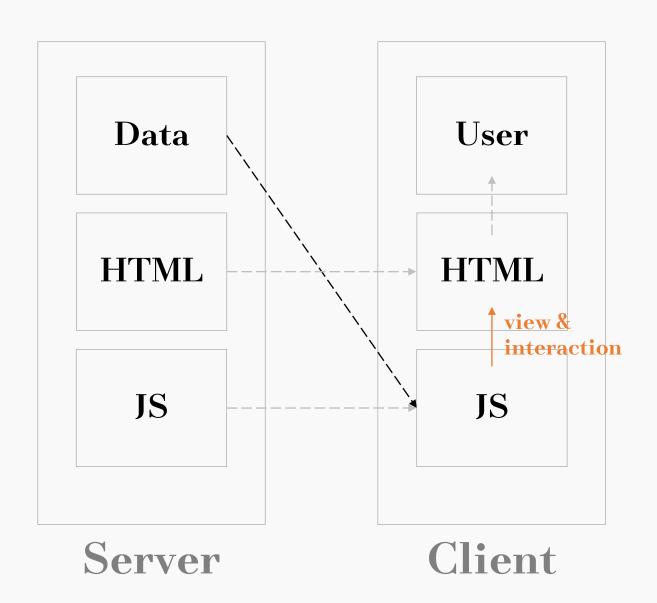
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const container =
  document.querySelector('.container');

container.addEventListener('click', () => {
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});
```



```
<!DOCTYPE html>
<html>
<head>
    <title>2nd GDSC Soongsil</title>
</head>
<body>
{% for o in some_list %}
    <div class="container">
        Hello {{ o }}!
    </div>
{% endfor %}
</body>
</html>
```

```
const body =
  document.querySelector('body');
let containers = '';
const someList = await fetch( /* ... */ );
someList.forEach((o) => {
  containers += `
   <div class="container">
     Hello ${o}!
   </div>
});
body.innerHTML = containers;
const container =
  document.querySelector('.container');
container.addEventListener('click', () => {
  console.log("Hello World!");
});
```



Server

Data Processing (CRUD)

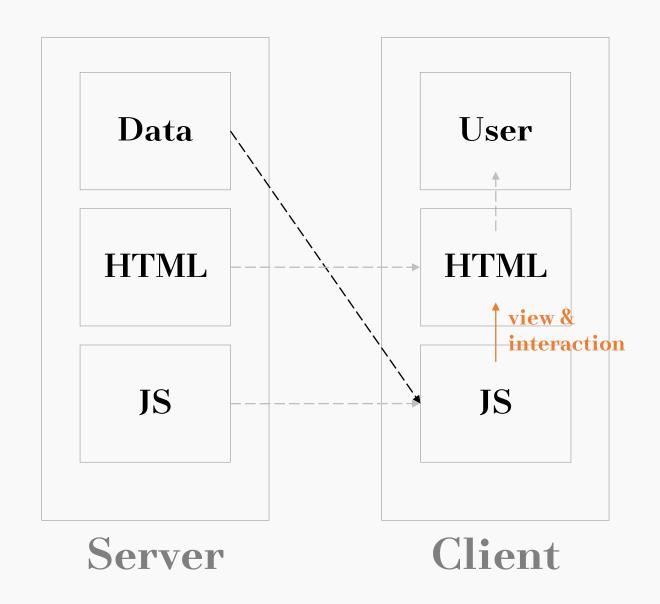
Client

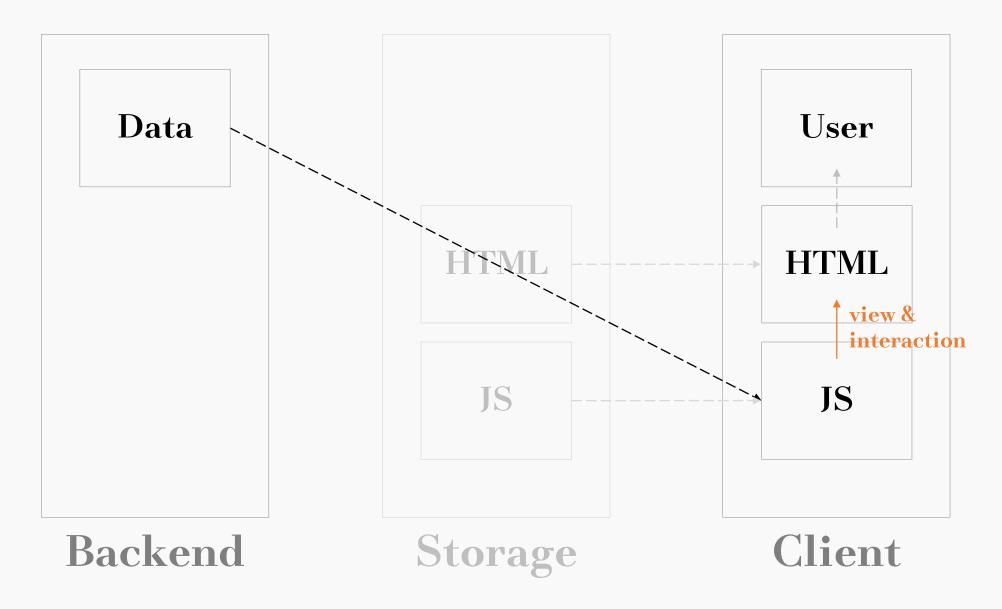
View & Interaction

1.

Server or Client

Client Side Rendering

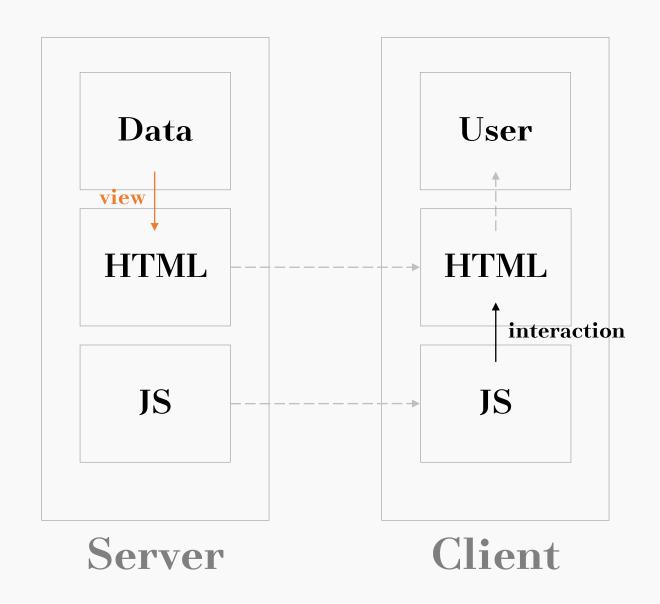


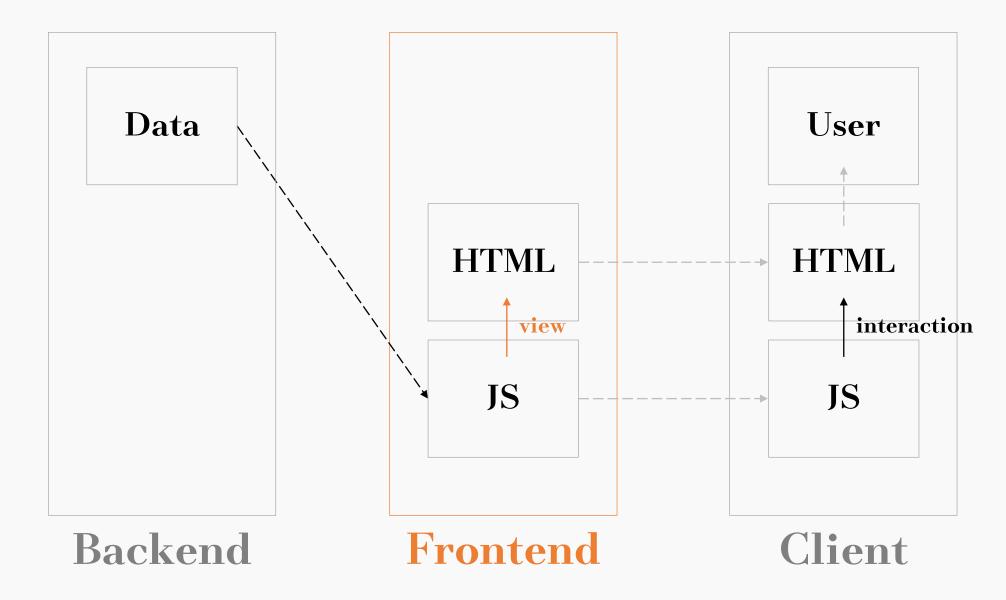


React, JSX

```
function Component({text}) {
 return (
   <div className="container">
     {text}
     </div>
function App() {
 return (
   <>
     {someList.map((o) => (
       <Component text={o} />
     ))}
```

Server Side Rendering

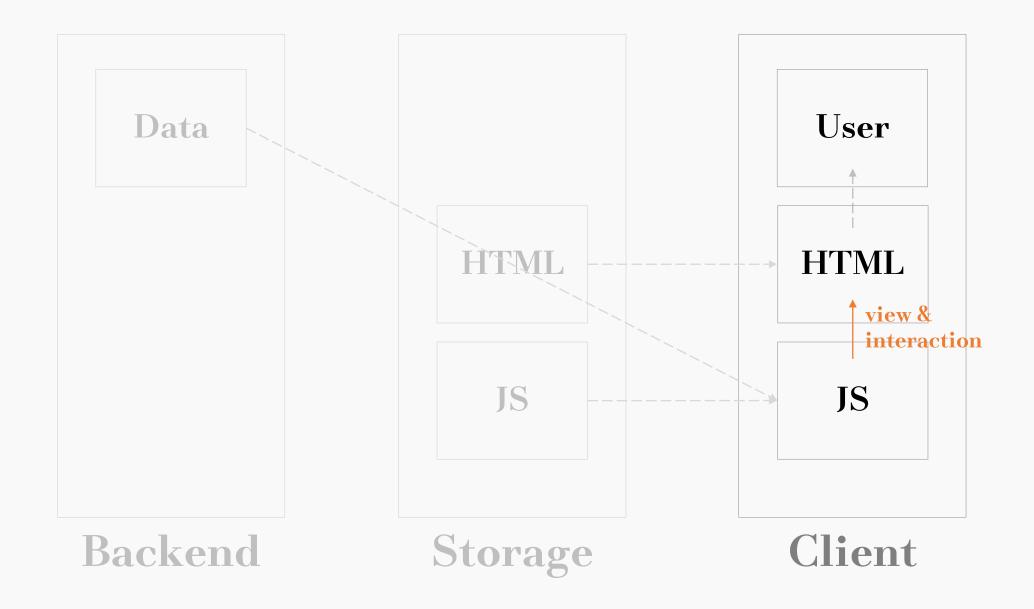


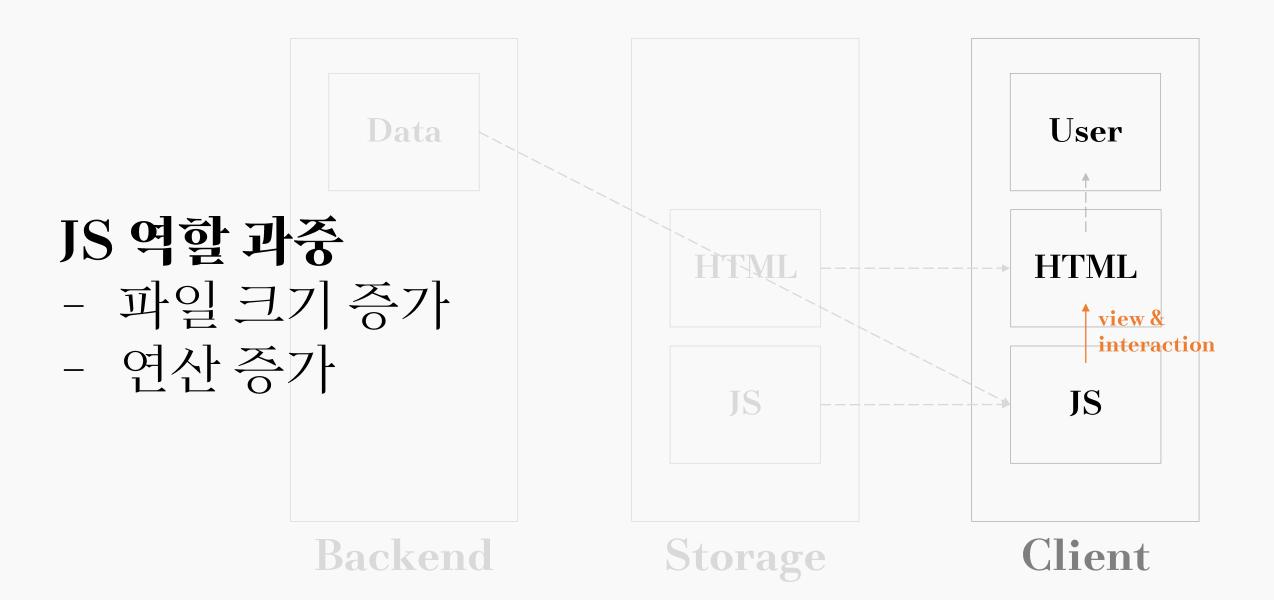


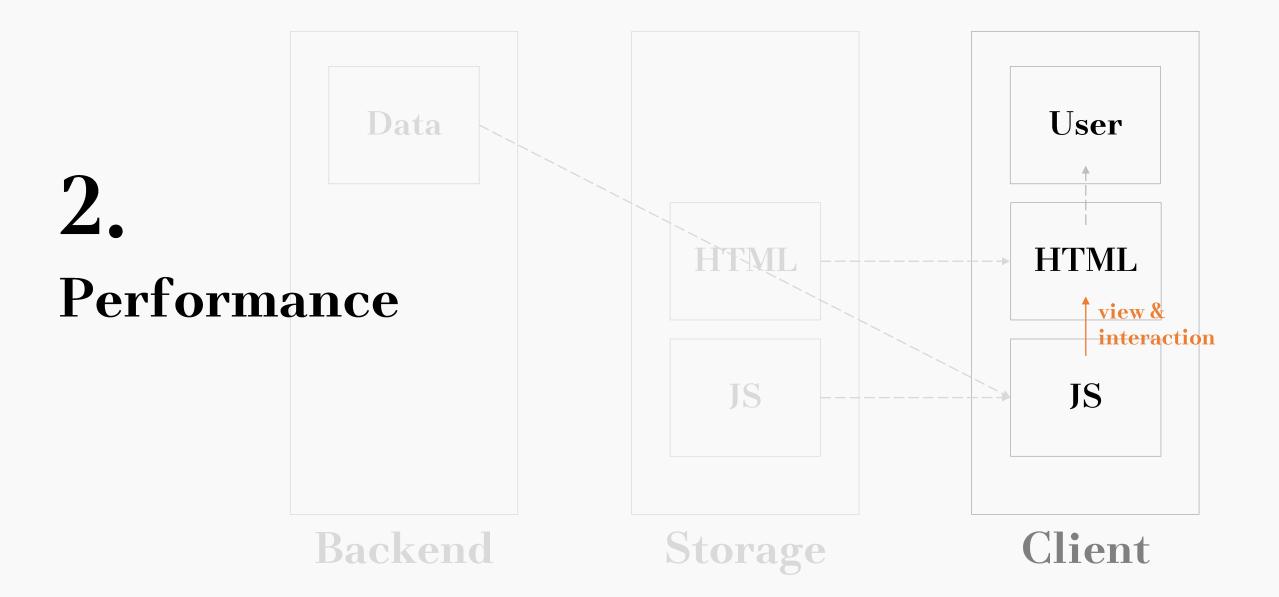
Next.js, Gatsby

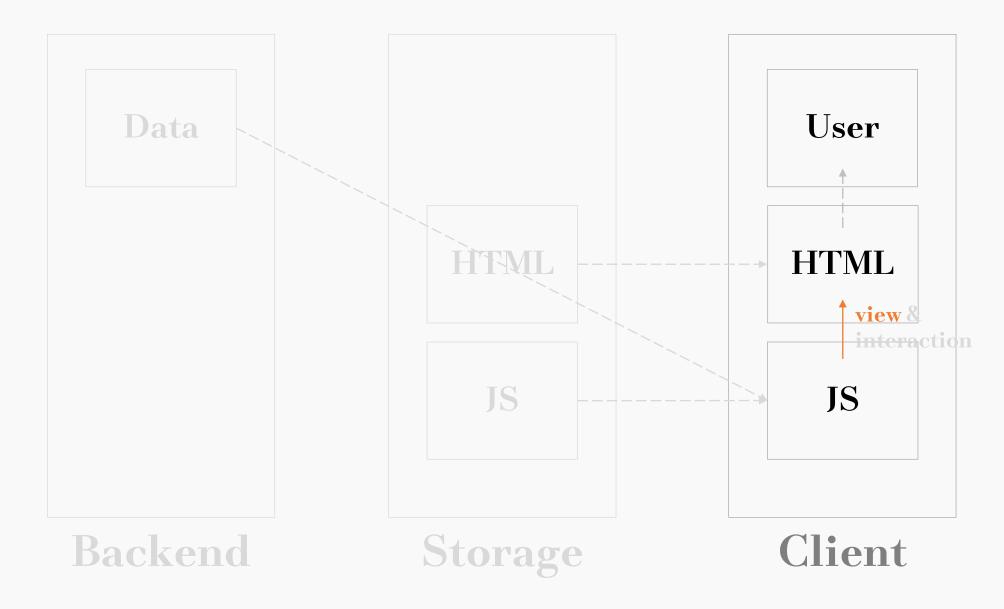
Nuxt.js

Astro, Fresh

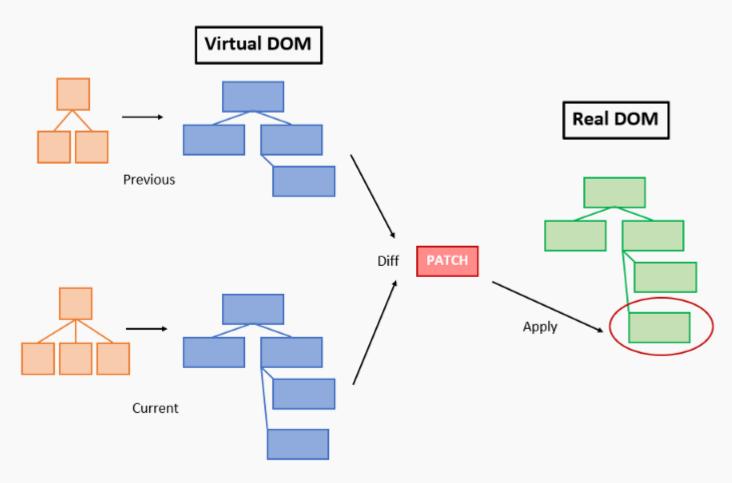






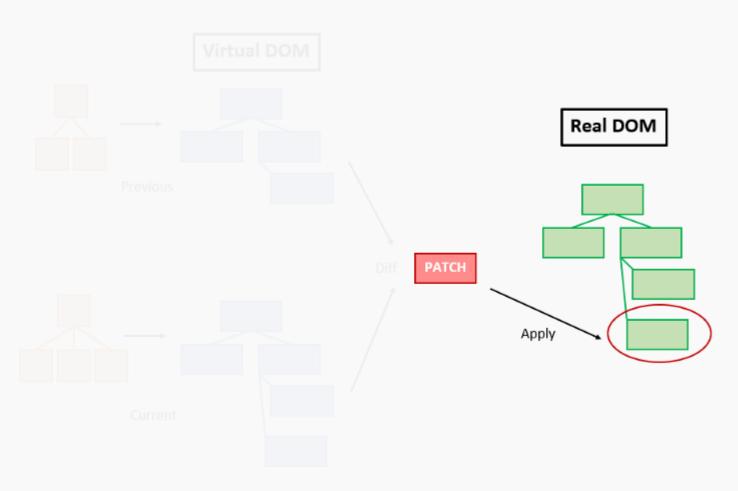


Virtual DOM



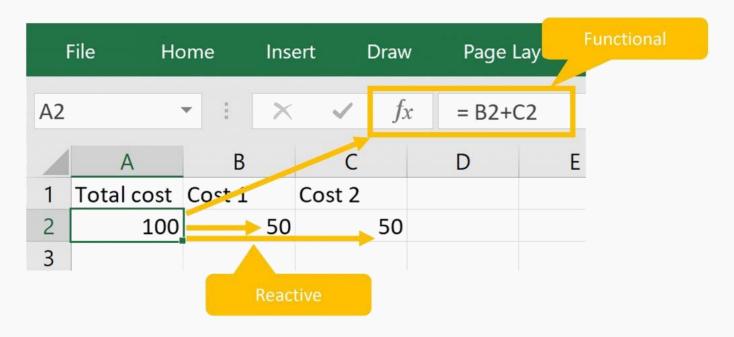
Source: 'Incremental vs Virtual DOM': Chameera Dulanga

Reactivity



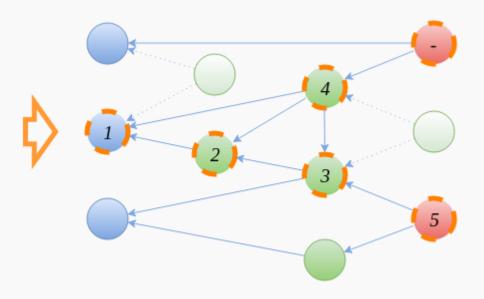
Source: 'Incremental vs Virtual DOM': Chameera Dulanga

Reactivity

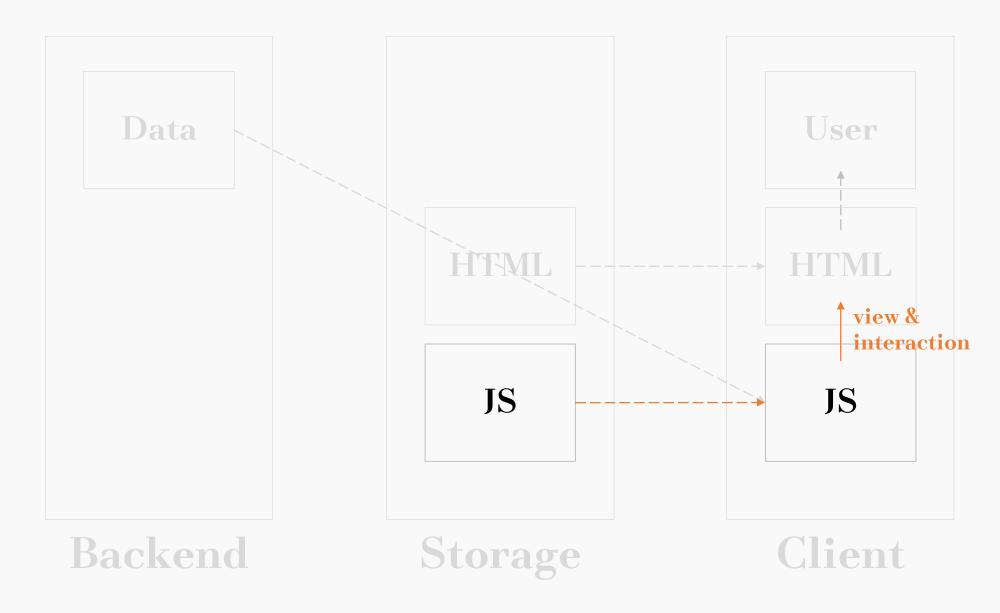


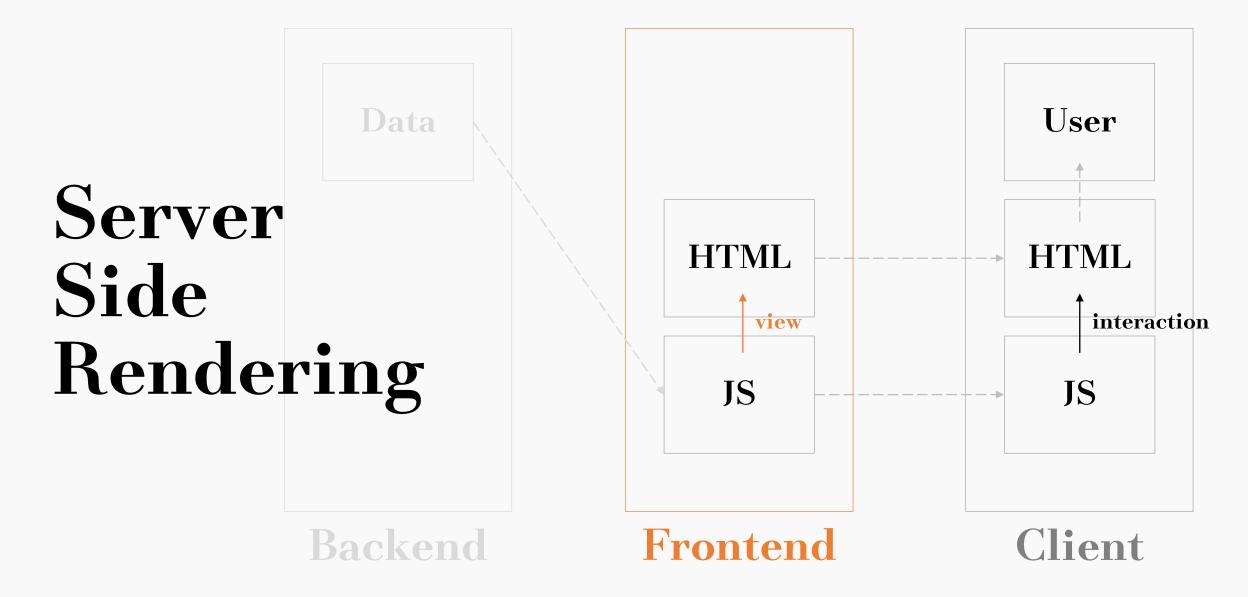
Source: What is Functional Reactive Programming (FRP)?: Malte Bucksch

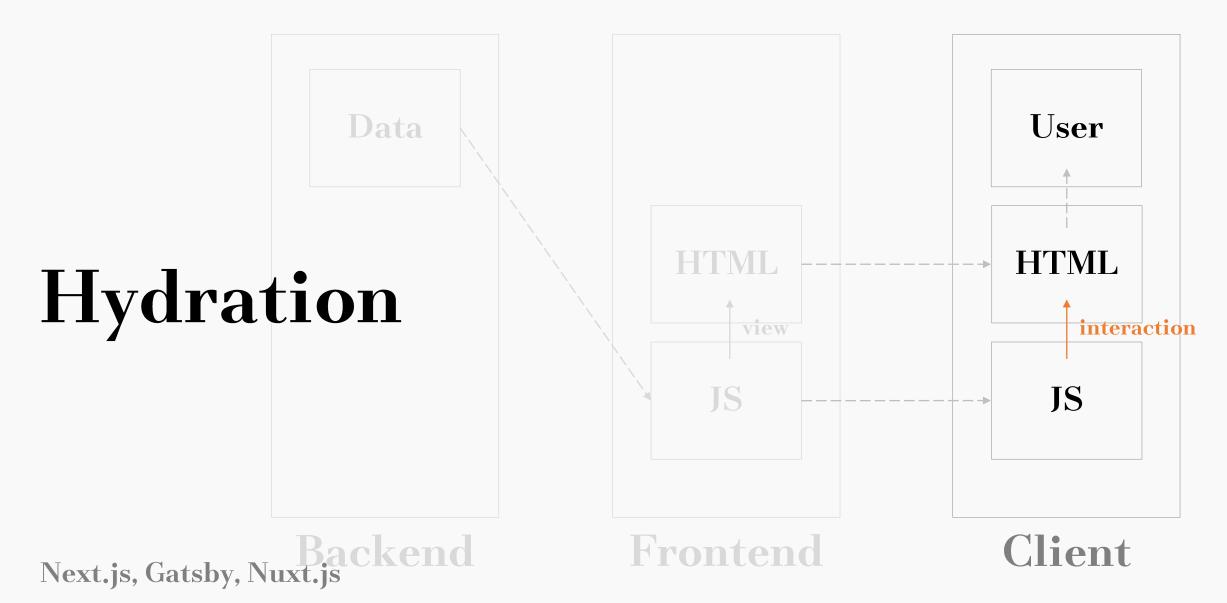
Reactivity



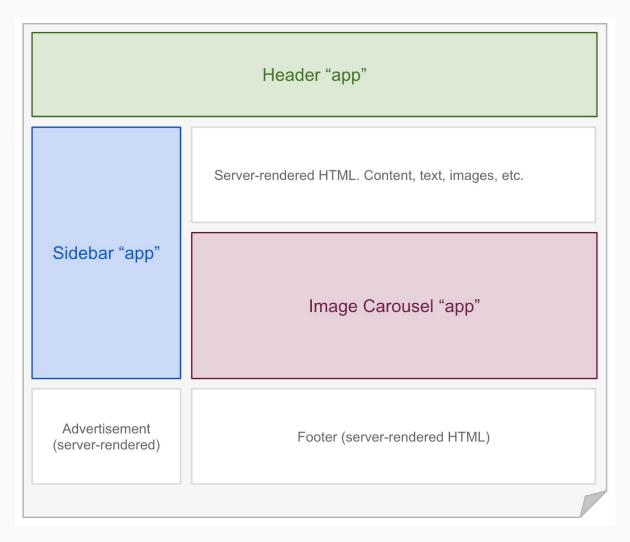
Source: Becoming fully reactive: an in-depth explanation of MobX: Michel Weststrate







Partial Hydration



Astro, Fresh, Marko

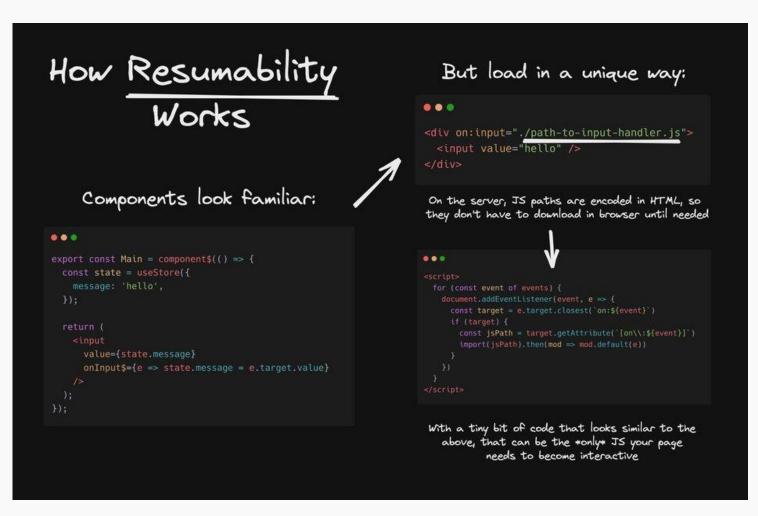
Source: Islands Architecture: Jason Miller

Resumable



Source: Hydration is Pure Overhead: MIŠKO HEVERY

Resumable



DX Small Compiled