
☒OBSERVER PATTERN

JAVASCRIPT DEEP DIVE STUDY

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- **Design Pattern**
 - **Observer Pattern**
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 - **QnA & Discussion**
-

GOALS

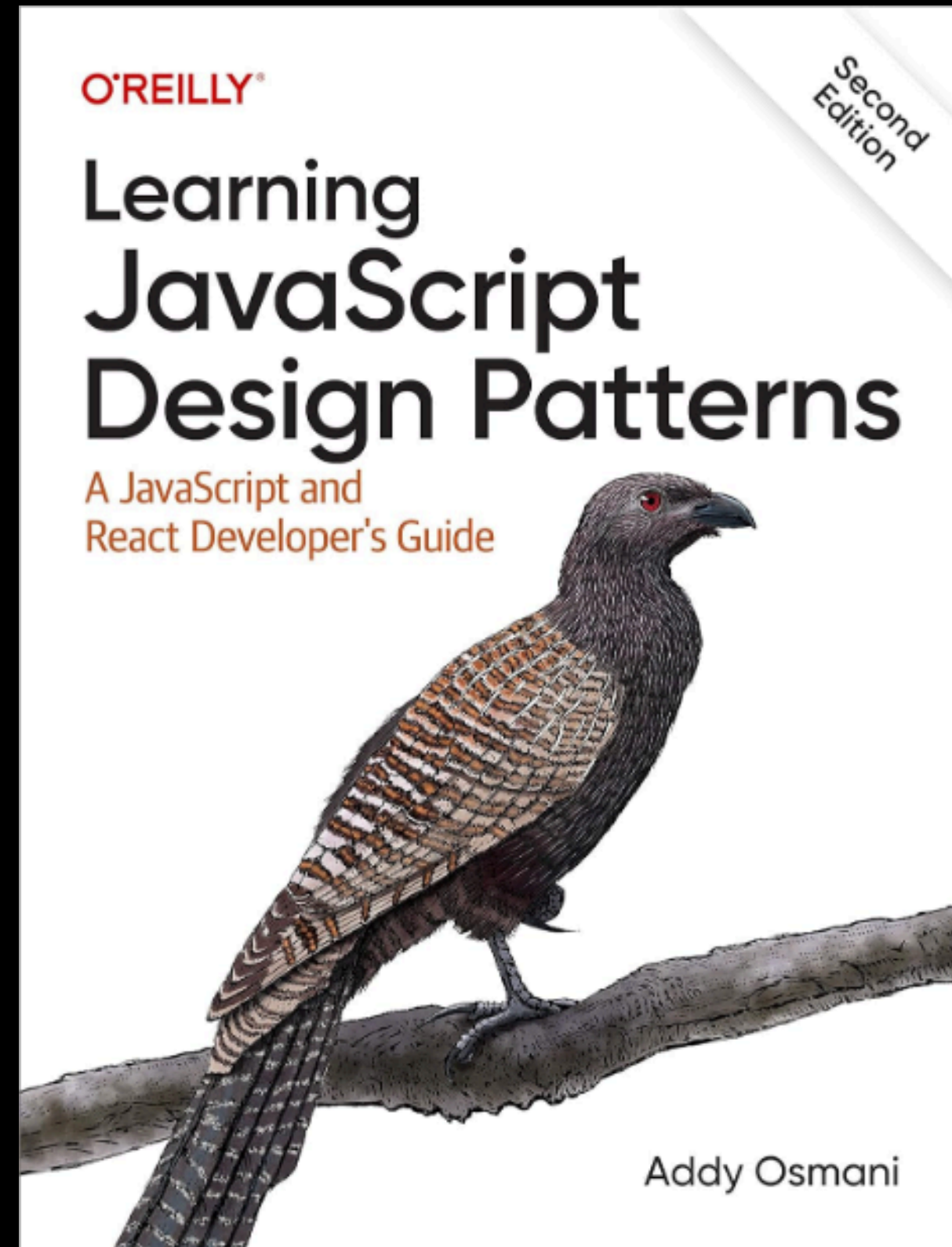
What is Design Pattern?

What is Observer Pattern?

How React works?

Design Pattern

☒ Legacy of senior developers



Design Pattern

https://en.wikipedia.org/wiki/Software_design_pattern

Software design pattern

 48 languages 

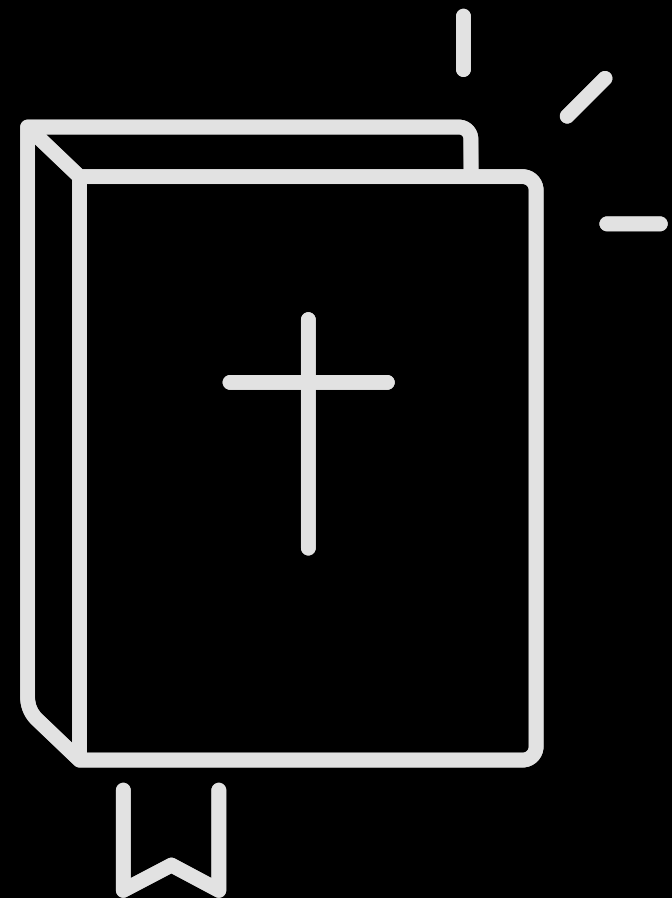
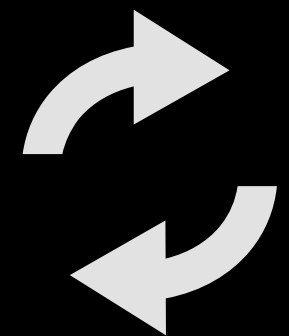
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From Wikipedia, the free encyclopedia

In [software engineering](#), a **design pattern** describes a relatively small, well-defined aspect (i.e. functionality) of a [computer program](#) in terms of how to [write](#) the [code](#).

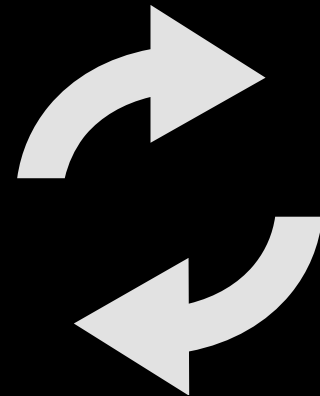
Design Pattern



Design Pattern



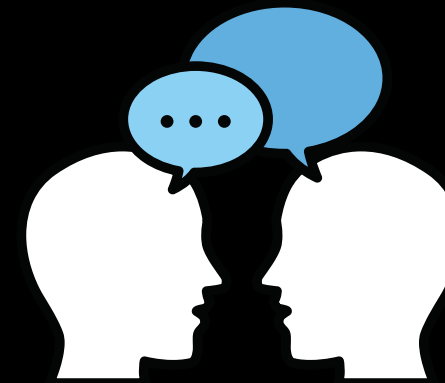
Certified



Reusable



Recognizable



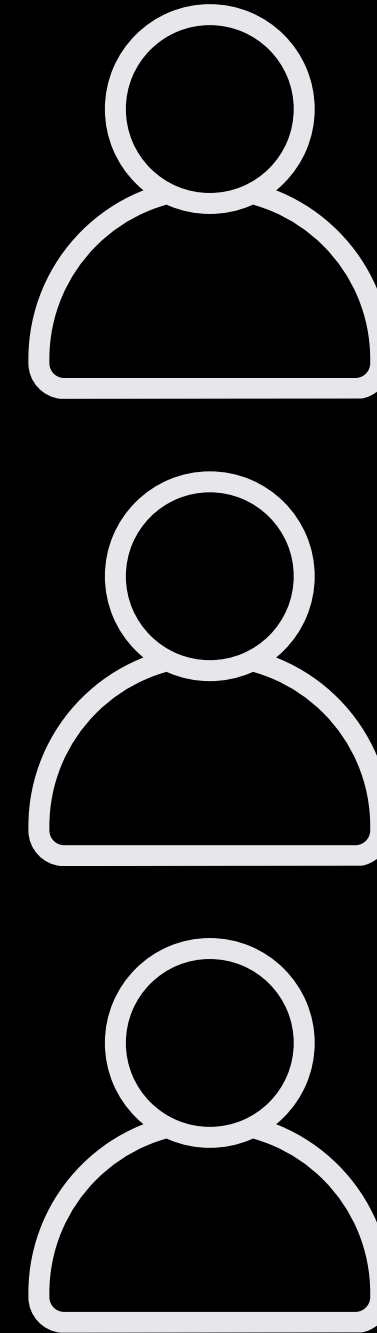
Easy to
communicate

Observer Pattern

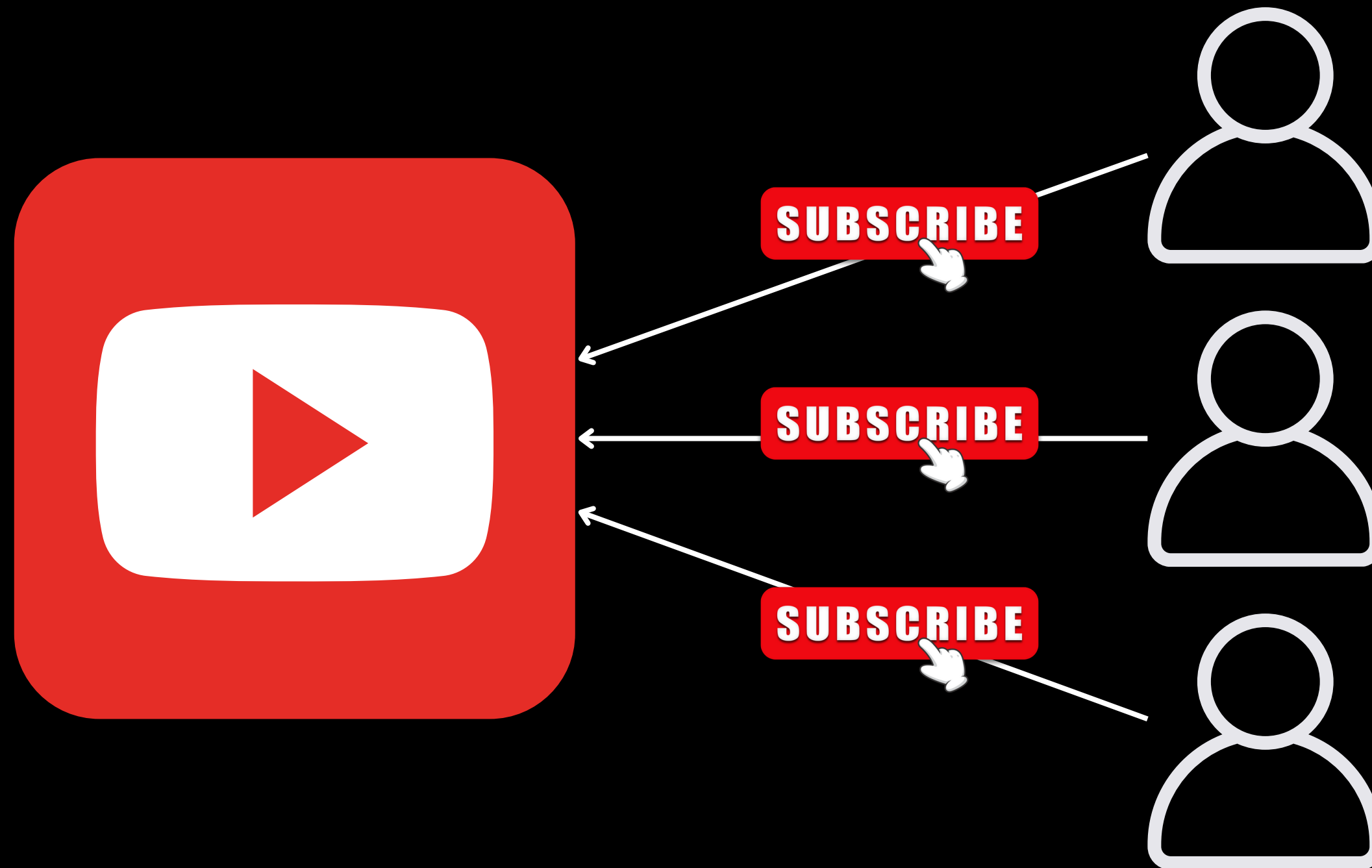
☒ see you



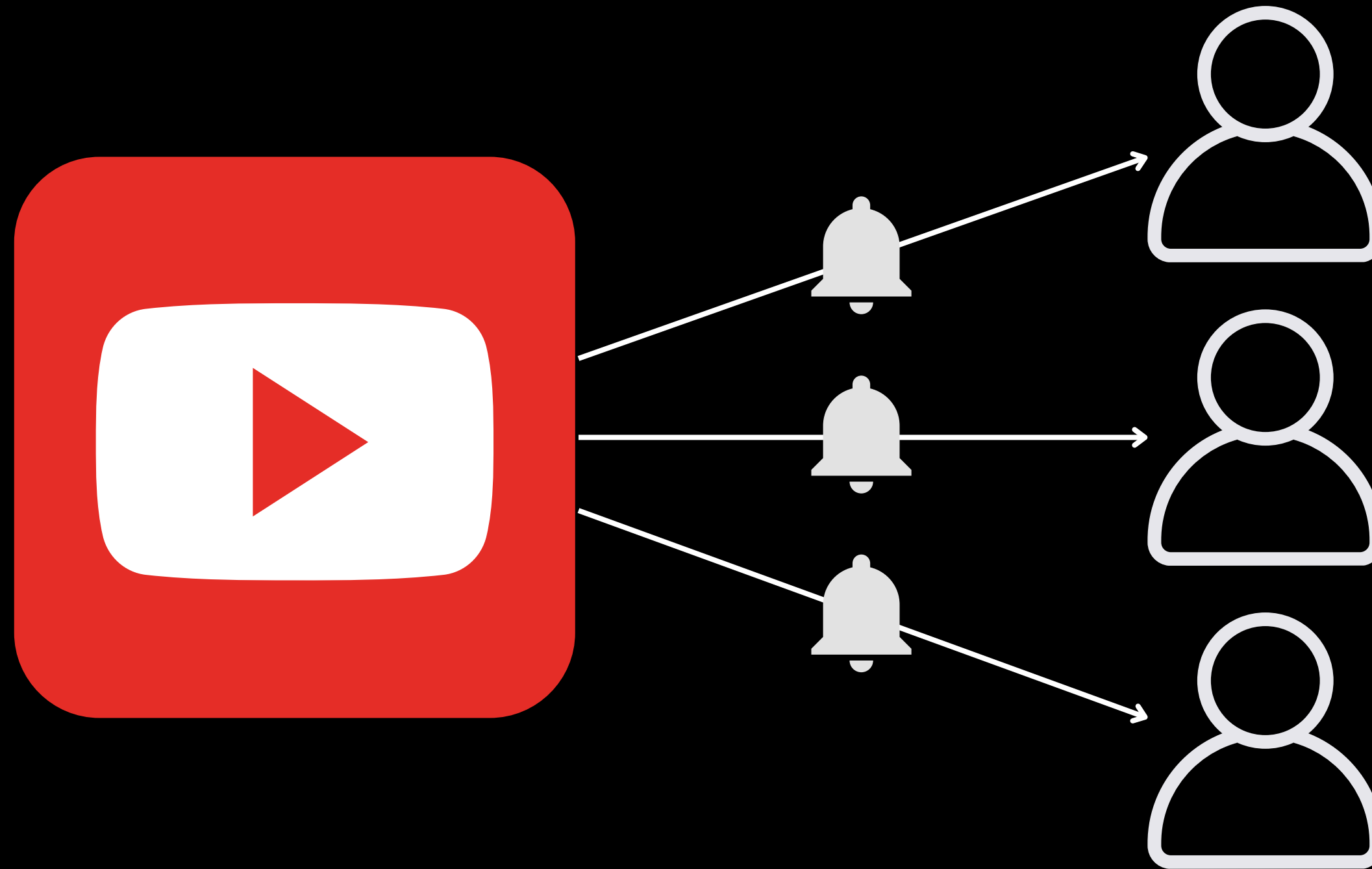
Observer Pattern



Observer Pattern



Observer Pattern



Observer Pattern

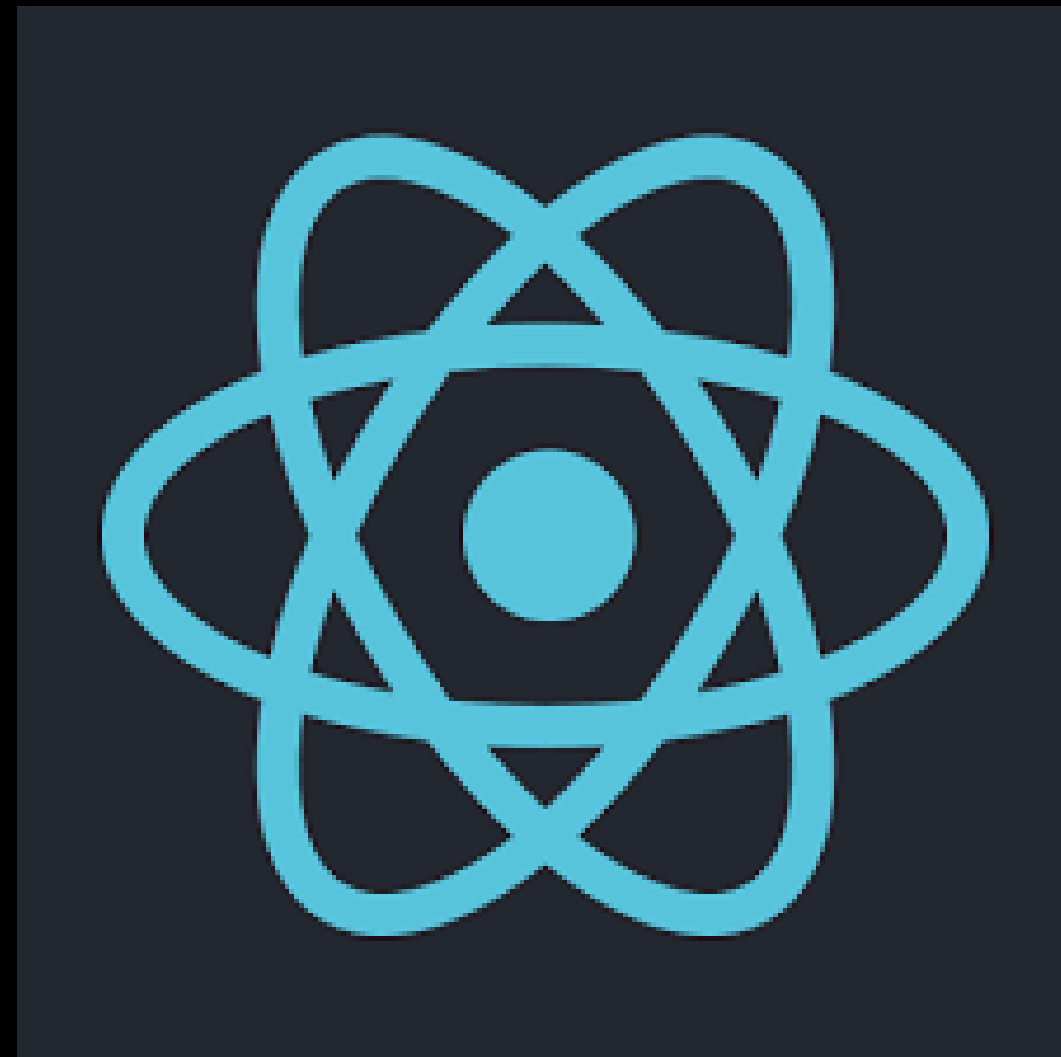
```
1 class Subject {
2   constructor() {
3     this.observers = [];
4     this.state = null;
5   }
6
7   subscribe(observer) {
8     this.observers.push(observer);
9   }
10
11  unsubscribe(observer) {
12    this.observers = this.observers.filter((obs) => obs !== observer);
13  }
14
15  notify(data) {
16    this.observers.forEach((observer) => observer.update(data));
17  }
18
19  setState(value) {
20    this.state = value;
21    this.notify(this.state);
22  }
23 }
```

```
1 class Observer {
2   constructor(state) {
3     this.state = state;
4     this.state.subscribe(this);
5   }
6
7   update(data) {
8     console.log(data);
9   }
10 }
11
12 const subject = new Subject();
13 const observer1 = new Observer(subject);
14 const observer2 = new Observer(subject);
15
16 subject.setState(1);
17 subject.setState(2);
```

```
~/Study/deepdi
> node observer.js
1
1
2
2
```

Let's Code!

Mini React with Observer Pattern



THANK YOU

QnA & Discussion

Retrospect

Please write in free format and upload.

NICKNAME.MD

in 11_01_ServerComponents/Retrospect

https://github.com/gdsc-konkuk/24-25-study-react-nextjs-docs/tree/main/11_01_ServerComponents
