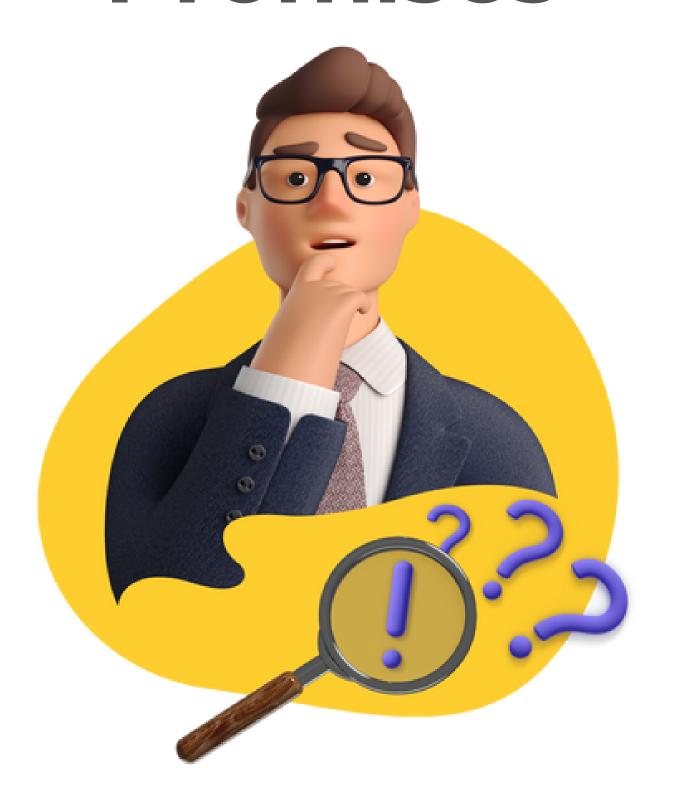
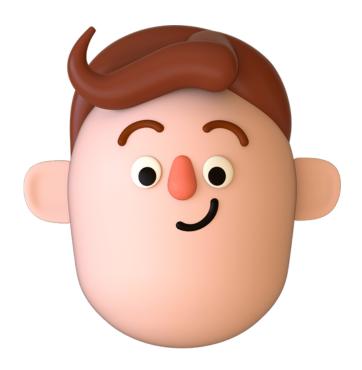


Observables



Promises





Both Observables and Promises help us work with asynchronous functionality in JavaScript and Angular.

Promises deal with one asynchronous
event at a time, while Observables handle a
sequence of asynchronous events over a
period of time.

Lets understand more differences between them



ABOUT

Observables are a part of **Rxjs** Javascript **library**. ie . we **need to import Observable** in an Angular app before using it



Promises **are a part of Native javascript** (ES6 feature).

No import statement required



OBSERVABLES

- Emit multiple values over a period of time.
- Are lazy: they're not executed until we subscribe to them using the subscribe() method.
- We can use Rxjs Operators (like map, filter, retry, reduce, etc) on observables to perform operation on complex data



PROMISES

- Emit a single value at a time.
- Are not lazy: execute immediately after creation.
- Don't provide any operators.



OBSERVABLES

- Have subscriptions that are cancellable using the unsubscribe() method, which stops the listener from receiving further values.
- Deliver errors to the subscribers.



PROMISES

- Are not cancellable.
- Push errors to the child promises.



Observable Creation

```
const obs = new Observable((observer) => {
   observer.next(10);
});
```



Promises Creation

```
const promise = new Promise(() => {
    resolve(10);
});
```



Observable Transform Operation

```
Obs.pipe(map(value) => value * 2);
```



Promises Transform Operation

```
promise.then((value) => value * 2);
```



Observable Subscribe Operation

```
const sub = obs.subscribe((value) => {
   console.log(value)
});
```

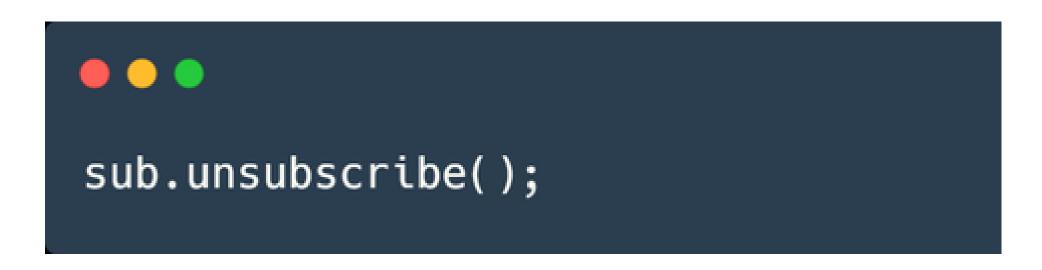


Promises Subscribe Operation

```
promise.then((value) => {
   console.log(value)
});
```



Observable Unsubscribe Operation





Promises Unsubscribe Operation

Cannot Unsubscribe



FOLLOW ME FOR MORE





DID YOU FIND THIS USEFUL?

Let me know in the comment section



