

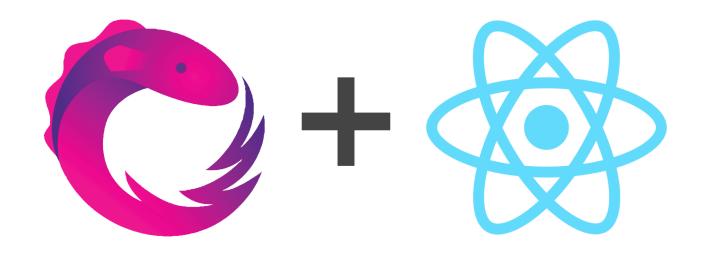
RxJS with React

The best, most maintainable code, is code that matches the way you think about the problem, without a lot of noise

What do I mean by noise...?

Therefore, the best Language / Framework / Library FOR YOU is the one that either:

- A. Matches your way of thinking
- B. Guides you to think in a different way



Succinct, expressive code, that lets you build complex web applications

"without a lot of noise"



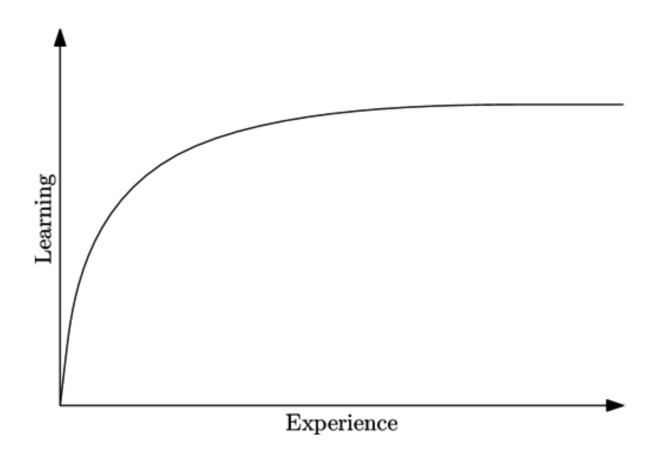


Succinct, expressive code for dealing with events, asynchronicity and state



Steep Learning Curve



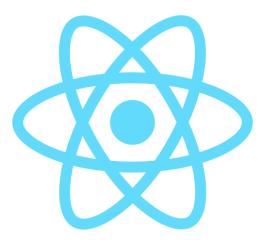


Declarative Style

Functional in Nature

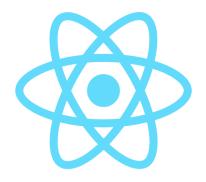


Encourages Immutability

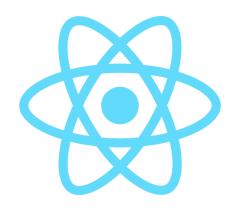


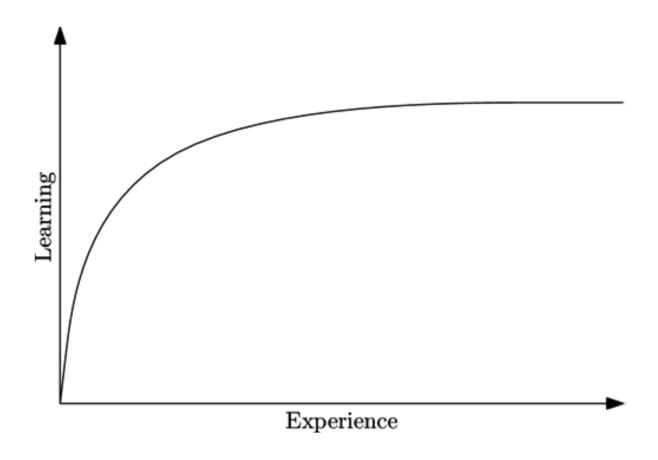
Why React?

Succinct, expressive code for dealing with UI based on discrete synchronous state updates



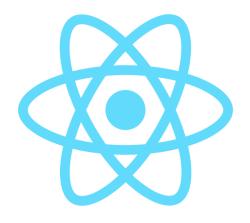
Steep Learning Curve



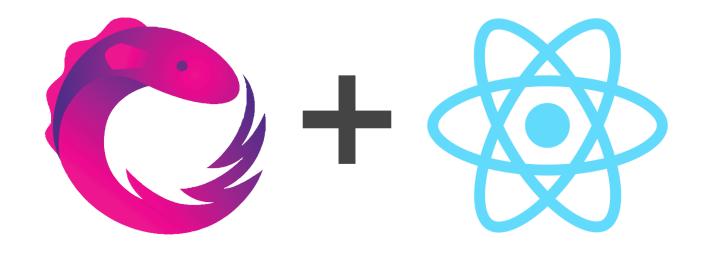


Declarative Style

Functional in Nature



Encourages Immutability



Why RxJS with React?



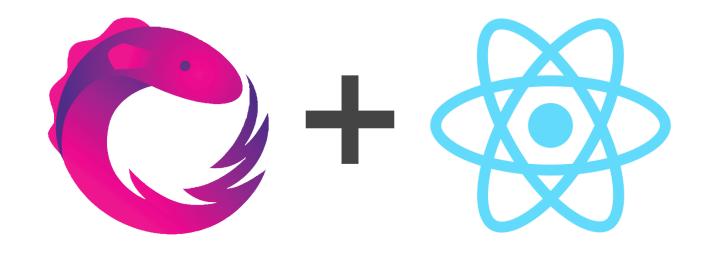
Replying to @ryanflorence @dan_abramov and 2 others

The question is not "when does this effect run" the question is "with which state does this effect synchronize with"

useEffect(fn) // all state
useEffect(fn, []) // no state
useEffect(fn, [these, states])

7:14 AM · May 5, 2019 · Twitter Web App





Change the way you think about problems

How to use RxJS with React

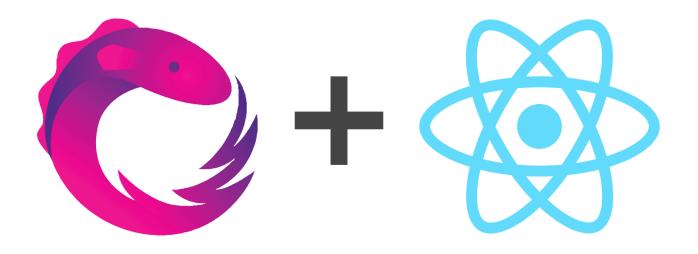
observables with

Syncing State

```
const [state, setState] = useState()
  useEffect(() => {
3
    const sub = observable$.subscribe(
      newState => setState( newState )
6
    return () => sub.unsubscribe()
 }, [])
```

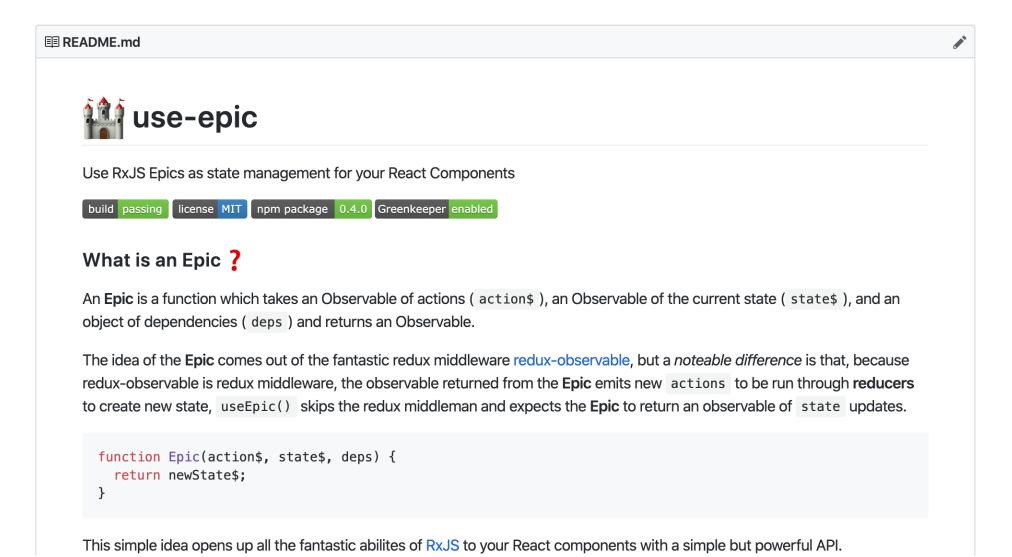
RxJS.ajax()

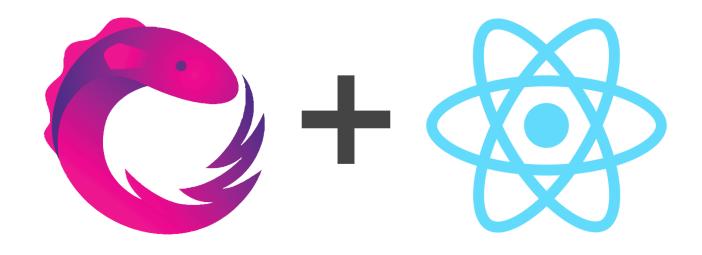
```
• • •
  const [people, setPeople] = useState();
   useEffect(() => {
     const sub = ajax(ENDPOINT).subscribe(
       ({ response: { results } }) => {
         setPeople(results);
 6
 8
     return () => sub.unsubscribe();
10 }, []);
```



useEpic

https://github.com/BigAB/use-epic





Benefits?

Succinct, expressive code Powerful best in class abstractions

Separation of Concerns Components become about User Interface

Separation of Concerns Observables are how you handle application state and events

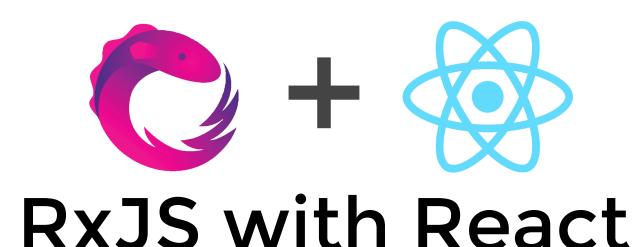
Testing Test components and observables separately

Cross Framework Use tools and from other communities

Awesome Rx Tools

RxJS is super popular across frameworks so, sometimes we get to use solutions from other communities, and there is just a lot of cool RxJS stuff out there

- <\$> React RxJS Elements https://github.com/kosich/react-rxjs-elements
- React-RxJS https://react-rxjs.org/
- RxJS State https://github.com/BioPhoton/rxjs-state
- Rx-Handler https://github.com/johnlindquist/rx-handler
- Rx-Query https://github.com/timdeschryver/rx-query
- Sanity.io
 https://www.sanity.io/docs/client-libraries/jsclient
- Rx Visualizer https://rxviz.com







Anedot

