



SHANE OSBOURNE

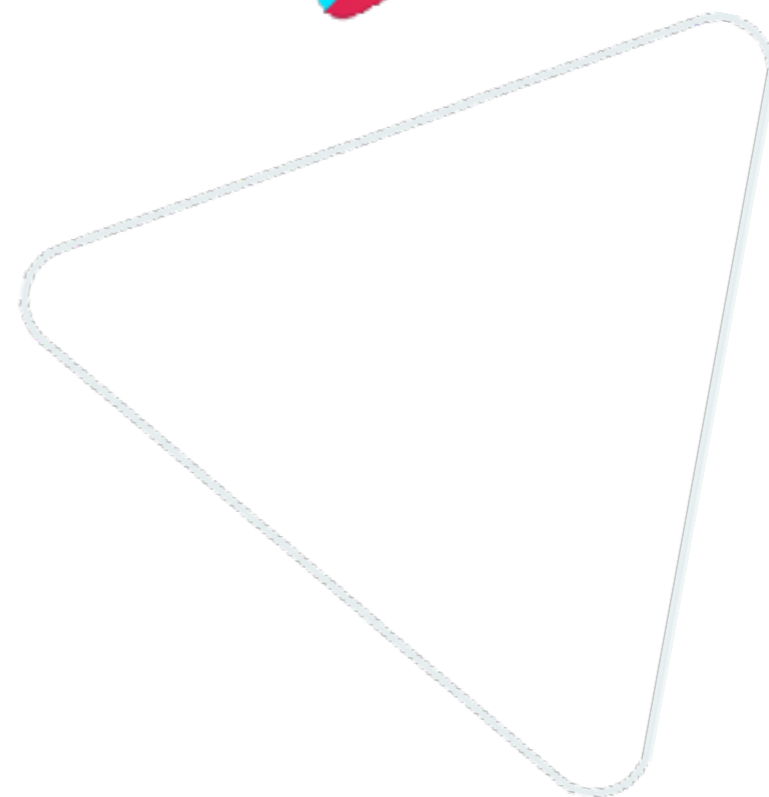
Lead Front-End Developer at JH

@shaneOsbourne

Using React-Native to build an M2
powered App on both iOS and Android

UK.MAGETITANS.COM

#MageTitansMCR  @MageTitans



PASLODE LI-ION FRAMING NAILER

ONLY £379.99 EACH



Web Exclusive 600 New Products Decorative Aggregates Decorating Deals Suite Offers

REAL DEALS **£59.99 EACH**



3 SIZES

Victorian Internal Oak Door

REAL DEALS **£219.99 EACH**



SPECIAL OFFER

Combi Drill & Impact Driver

30 MINS

CLICK & COLLECT
Buy online and collect from a branch in 30 minutes.

TRADE & BUSINESS ONLY

GET A TRADE CARD
It only takes two minutes

f

FOLLOW US ON FACEBOOK
offers, news, competitions and more

selco HIRE

HIRE SERVICE
7 day hire price with insurance included



Timber, MDF & Sheet Materials
Plywood Sheets
MDF Sheets
OSB Board
View all...



Building Materials
Bricks
Concrete Blocks
Concrete lintels
View all...



Landscaping & Fencing
Fence Panels
Decking Boards
Paving Slabs
View all...



Plaster & Drying
Plasterboard
Coving
Plaster
View all...

Home / Taps

FRANCIS PEGLER VISIO MONO BASIN TAP WITH CLICK WASTE

REAL DEALS




Francis Pegler
ITEM CODE: 37488081

£29.99 EX VAT

SIGN IN TO SEE PRICE & BUY

Not a Selco member? [Get a free Account](#)

- ✓ **Available in branch**
Check your local branch stock
- ✓ **Click & Collect**
Ready to collect within 30 minutes
- ✗ **Next Day Courier Delivery**
Currently out of stock for Courier Delivery

Overview

The Visio range has a contemporary chrome tubular design with a modern, minimalist look.



php



Required Skills

Design / UX



API Development



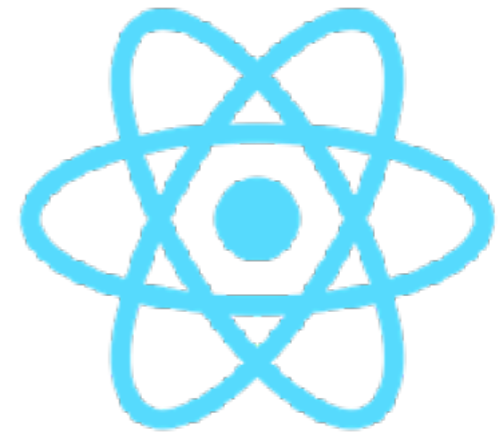
APP Development



Objective C / **Swift**

Java / **Kotlin**

React Native



iOS and Android Apps from JavaScript

No need to hire anyone new

No need to learn new languages

Who's using it?



Why React Native

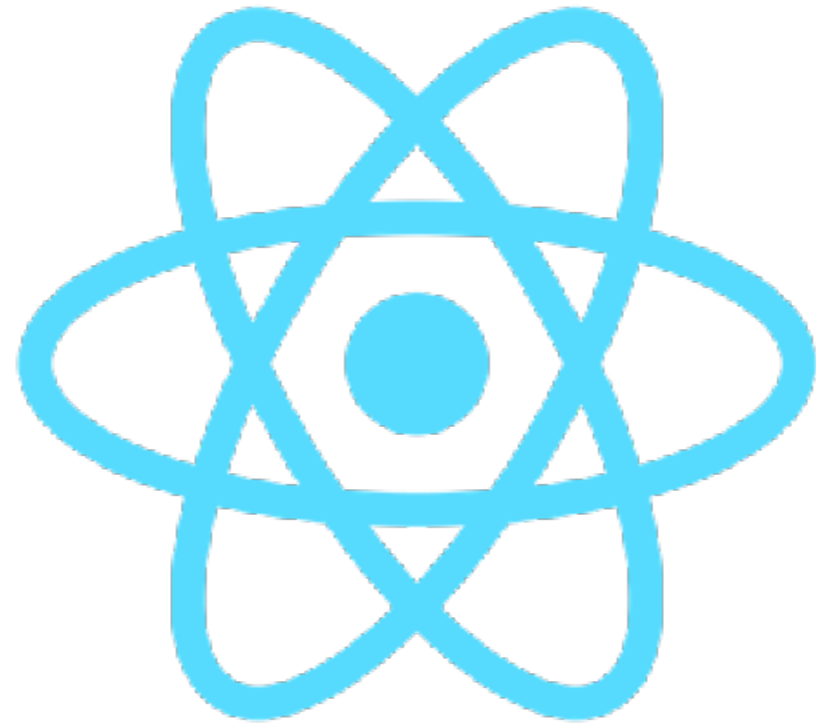
It's actively developed by Facebook

It uses modern tooling



We get to write JavaScript

90% of code shared across Platforms

It's ****not**** just a web view wrapper



React Native
(not for beginners)

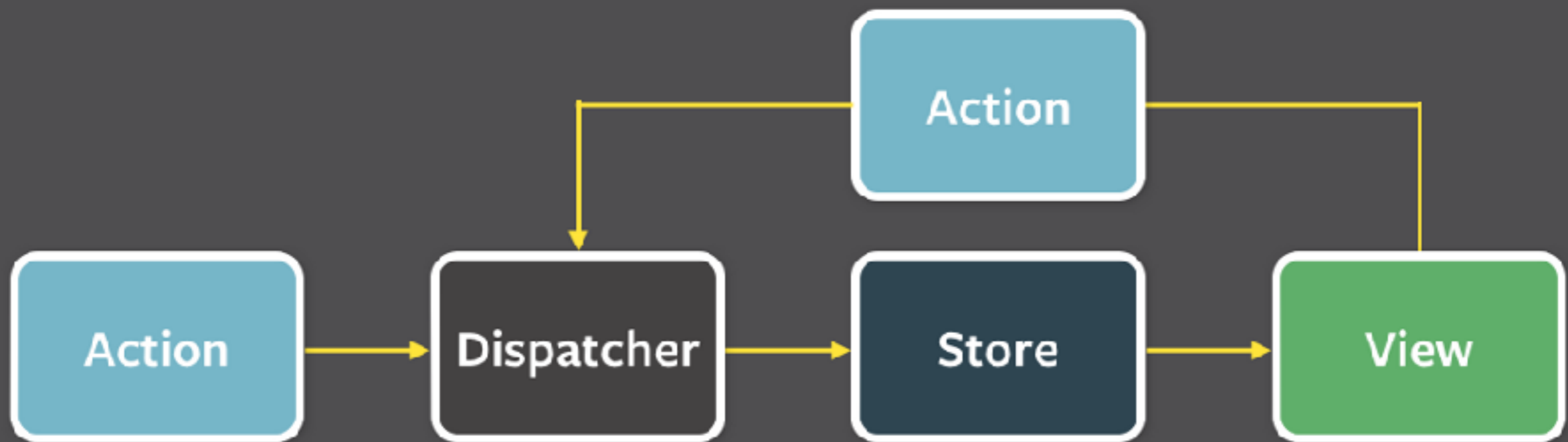


“Don’t ever get married to a particular library or framework, or even programming style - instead become an expert at the fundamentals”

- some wise developer

Redux

UNI-DIRECTIONAL DATA FLOW



Redux

UNI-DIRECTIONAL DATA FLOW



```
<Button onClick={() =>
  dispatch({
    type: 'SELECT_ITEM',
    payload: item.id
  })
}>
  {item.name}
</Button>
```

Redux

UNI-DIRECTIONAL DATA FLOW



```
function reducer(state = [], action) {  
  switch (action.type) {  
    case 'SELECT_ITEM': {  
      return state  
        .concat(action.payload);  
    }  
    default: return state;  
  }  
}
```

Redux

UNI-DIRECTIONAL DATA FLOW



```
function reducer(state = [], action) {  
  switch (action.type) {  
    case 'SELECT_ITEM': {  
      return state  
        .concat(action.payload);  
    }  
    default: return state;  
  }  
}
```

Redux

UNI-DIRECTIONAL DATA FLOW



```
function reducer(state = [], action) {  
  switch (action.type) {  
    case 'SELECT_ITEM': {  
      return state  
        .concat(action.payload);  
    }  
    default: return state;  
  }  
}
```


Redux

UNI-DIRECTIONAL DATA FLOW



```
function reducer(state = [], action) {  
  switch (action.type) {  
    case 'SELECT_ITEM': {  
      return state  
        .concat(action.payload);  
    }  
    default: return state;  
  }  
}
```

RxJS

COMPOSITION OF SIDE EFFECTS



```
dispatch({
  type: 'LOGIN',
  payload: {
    username: 'shakyshane',
    password: 'h4cker4life',
  }
})
```

RxJS

COMPOSITION OF SIDE EFFECTS



```
function login(action$) {  
  return action$.ofType('LOGIN')  
    .switchMap((creds) =>  
      ajax('http://example.com/signin', creds)  
        .takeUntil(action$.ofType('NAVIGATE'))  
        .catch(err => of({type: 'LOGIN_FAIL'}))  
        .mapTo({type: 'LOGIN_SUCCESS'})  
    )  
}
```

RxJS

COMPOSITION OF SIDE EFFECTS



```
function login(action$) {  
  return action$.ofType('LOGIN')  
    .switchMap((creds) =>  
      ajax('http://example.com/signin', creds)  
        .takeUntil(action$.ofType('NAVIGATE'))  
        .catch(err => of({type: 'LOGIN_FAIL'}))  
        .mapTo({type: 'LOGIN_SUCCESS'})  
    )  
}
```

RxJS

COMPOSITION OF SIDE EFFECTS



```
function login(action$) {  
  return action$.ofType('LOGIN')  
    .switchMap((creds) =>  
      ajax('http://example.com/signin', creds)  
        .takeUntil(action$.ofType('NAVIGATE'))  
        .catch(err => of({type: 'LOGIN_FAIL'}))  
        .mapTo({type: 'LOGIN_SUCCESS'})  
    )  
}
```

RxJS

COMPOSITION OF SIDE EFFECTS



```
function login(action$) {  
  return action$.ofType('LOGIN')  
    .switchMap((creds) =>  
      ajax('http://example.com/signin', creds)  
        .takeUntil(action$.ofType('NAVIGATE'))  
        .catch(err => of({type: 'LOGIN_FAIL'}))  
        .mapTo({type: 'LOGIN_SUCCESS'})  
    )  
}
```

RxJS

COMPOSITION OF SIDE EFFECTS



```
function login(action$) {  
  return action$.ofType('LOGIN')  
    .switchMap((creds) =>  
      ajax('http://example.com/signin', creds)  
        .takeUntil(action$.ofType('NAVIGATE'))  
        .catch(err => of({type: 'LOGIN_FAIL'}))  
        .mapTo({type: 'LOGIN_SUCCESS'})  
    )  
}
```

RxJS

COMPOSITION OF SIDE EFFECTS



```
function login(action$) {  
  return action$.ofType('LOGIN')  
    .switchMap((creds) =>  
      ajax('http://example.com/signin', creds)  
        .takeUntil(action$.ofType('NAVIGATE'))  
        .catch(err => of({type: 'LOGIN_FAIL'}))  
        .mapTo({type: 'LOGIN_SUCCESS'})  
    )  
}
```


Jest

TESTING APPLICATION LOGIC



```
const ajaxMock = jest.fn()
  .mockReturnsValue(of({status: 'success'}));

const store = configureStore({ajax: ajaxMock});

store.dispatch({
  type: 'LOGIN',
  payload: {
    username: 'shakyshane',
    password: 'kittenz'
  },
});

assert.equal(store.getState().auth.status, 'success');
```

Jest

TESTING APPLICATION LOGIC



```
const ajaxMock = jest.fn()
  .mockReturnsValue(of({status: 'success'}));

const store = configureStore({ajax: ajaxMock});

store.dispatch({
  type: 'LOGIN',
  payload: {
    username: 'shakyshane',
    password: 'kittenz'
  }
});

assert.equal(store.getState().auth.status, 'success');
```


Jest

TESTING APPLICATION LOGIC



```
const ajaxMock = jest.fn()
  .mockReturnsValue(of({status: 'success'}));

const store = configureStore({ajax: ajaxMock});
```

```
store.dispatch({
  type: 'LOGIN',
  payload: {
    username: 'shakyshane',
    password: 'kittenz'
  },
});
```

```
assert.equal(store.getState().auth.status, 'success');
```

Jest

TESTING APPLICATION LOGIC



```
const ajaxMock = jest.fn()
  .mockReturnValue(of({status: 'success'}));

const store = configureStore({ajax: ajaxMock});

store.dispatch({
  type: 'LOGIN',
  payload: {
    username: 'shakyshane',
    password: 'kittenz'
  }
});

assert.equal(store.getState().auth.status, 'success');
```

ESLint

ENFORCE CODE QUALITY/STYLE



```
const name = "shakyShane"
```

```
$ eslint src/** --fix
```

```
const name = 'shakyShane';
```

Flow

STATIC TYPE CHECKER



```
// @flow
type User = {
  name: string,
  age: number
}
```

```
function getUser(name: string): Observable<User> {
  return ajax(`http://example.com/user/${name}`)
}
```

Flow

STATIC TYPE CHECKER



```
// @flow
type User = {
  name: string,
  age: number
}
```

```
function getUser(name: string): Observable<User> {
  return ajax(`http://example.com/user/${name}`)
}
```


Flow

STATIC TYPE CHECKER



```
// @flow
getUser('shakyshane')
  .subscribe(user => {
    console.log(user.name);
    console.log(user.age);
  });
```

What we learnt

Don't become an expert in a single library/
framework.

Choose tools that make debugging easier

Use automation to lint & auto-fix your code

Write tests at the highest level possible

Get a grip on side-effects



[@shaneosbourne](https://twitter.com/shaneosbourne)



[@shakysbane](https://github.com/shakysbane)



egghead.io/instructors/shane-osbourne



wearejh.com