

Bizzare Javascript Paradigm(s)

...

@ncthis . nadeesha.me

**... or, why my mother warned me about
javascript and I didn't listen.**

Why was javascript bad?

I'm glad you asked.

```
' ' == '0' // false
```

```
0 == ' ' // true
```

```
0 == '0' // true
```

```
false == 'false' // false
```

```
false == '0' // true
```

```
false == undefined // false
```

```
false == null // false
```

```
null == undefined // true
```

```
" \t\r\n" == 0 // true
```

So, what's the case for Javascript?

**Language with a few rules,
that you can break whenever you want.**

The power of javascript:
Being a Lego block for things that are more awesome

BYOP

(Bring your own paradigm)

The maturing JS ecosystem:

The word "BABEL" is written in a black, stylized, brush-stroke font. It is centered within a solid yellow square, which is itself centered on a dark blue background.

BABEL

Transpilation
... because waiting for ES* is too hard.

```
async function myFunction() {  
  let result = await http.get("api/foo");  
  console.log(result); // cool, we have a result  
}
```

```
/* example 1 */  
@withAuth({  
  redirectIfAnon: true  
})  
class MyPage extends Component { ...
```

```
/* example 2 */  
import styles from './ApartmentActions.css';  
  
@withStyles(styles)  
class MyOtherPage extends Component {...
```

Uls as functions

```
var Comment = React.createClass({
  render: function() {
    return (
      <div className="comment">
        <h2 className="commentAuthor">
          {this.props.author}
        </h2>
        {this.props.children}
      </div>
    );
  }
});

var CommentList = React.createClass({
  render: function() {
    return (
      <div className="commentList">
        <Comment author="Pete Hunt">This is one comment</Comment>
        <Comment author="Jordan Walke">This is another comment</Comment>
      </div>
    );
  }
});
```

```
/* https://facebook.github.io/react/docs/tutorial.html */
```

Better separation of UI concerns
Composable UI components
Better performance
Testability

Functional (reactive) programming

...what it means to have functions as first class citizens


```
var numbers = [1,2,3,4,5]
var doubled = []

for(var i = 0; i < numbers.length; i++) {
  var newNumber = numbers[i] * 2
  doubled.push(newNumber)
}
console.log(doubled)
```

```
var numbers = [1,2,3,4,5]

var doubled = numbers.map(function(n) {
  return n * 2
})
console.log(doubled)
```

Lodash: functional programming

RxJS: reactive extensions

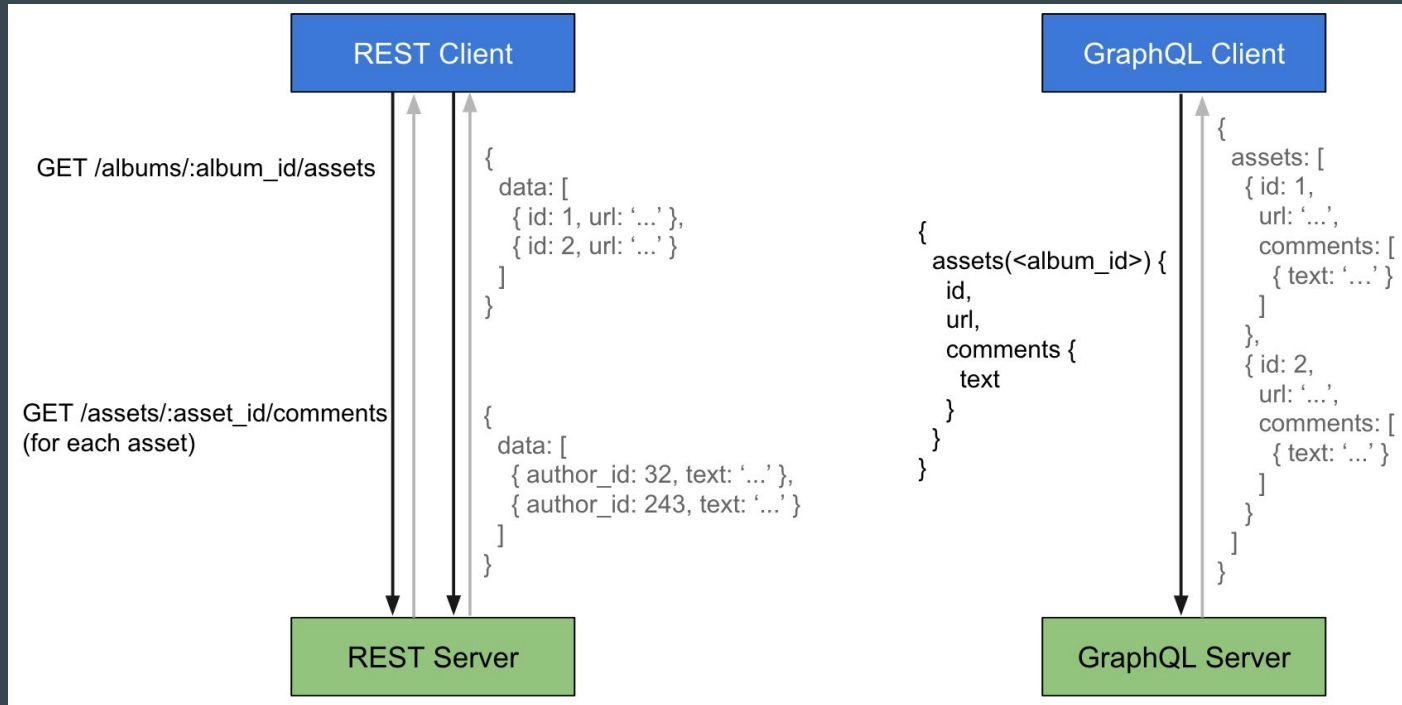
Immutable.js: immutable data structures

Declarative querying for an autocomplete

```
var keyup = Rx.DOM.keyup(input)
    .map(function (ev) { return ev.target.value; })
    .filter(function(text) { return text.length > 2; })
    .debounce(500)
    .distinctUntilChanged();
```

GraphQL/Falcor

... changing the way we REST



Declarative CRUD Ops
Query co-location

**Slow death of framework adoption.
And rise of small, well-defined libraries.**

It's an exciting time to be a JS developer.

