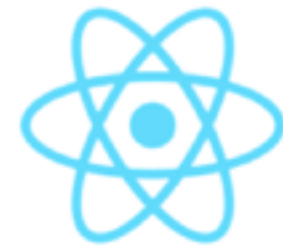




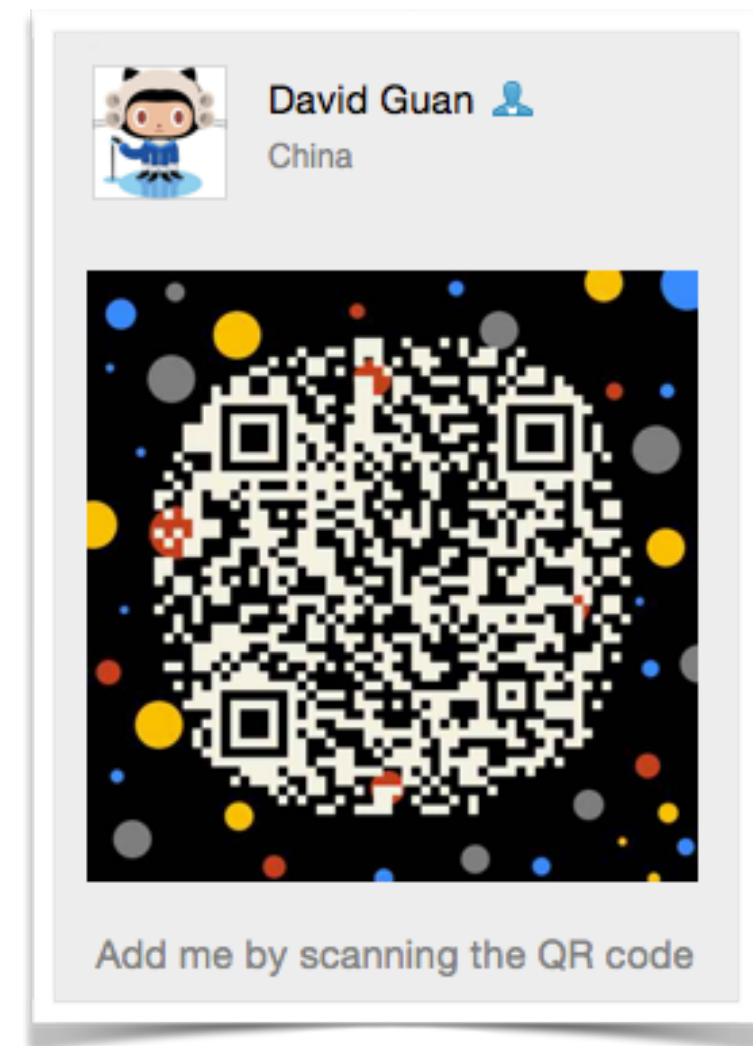
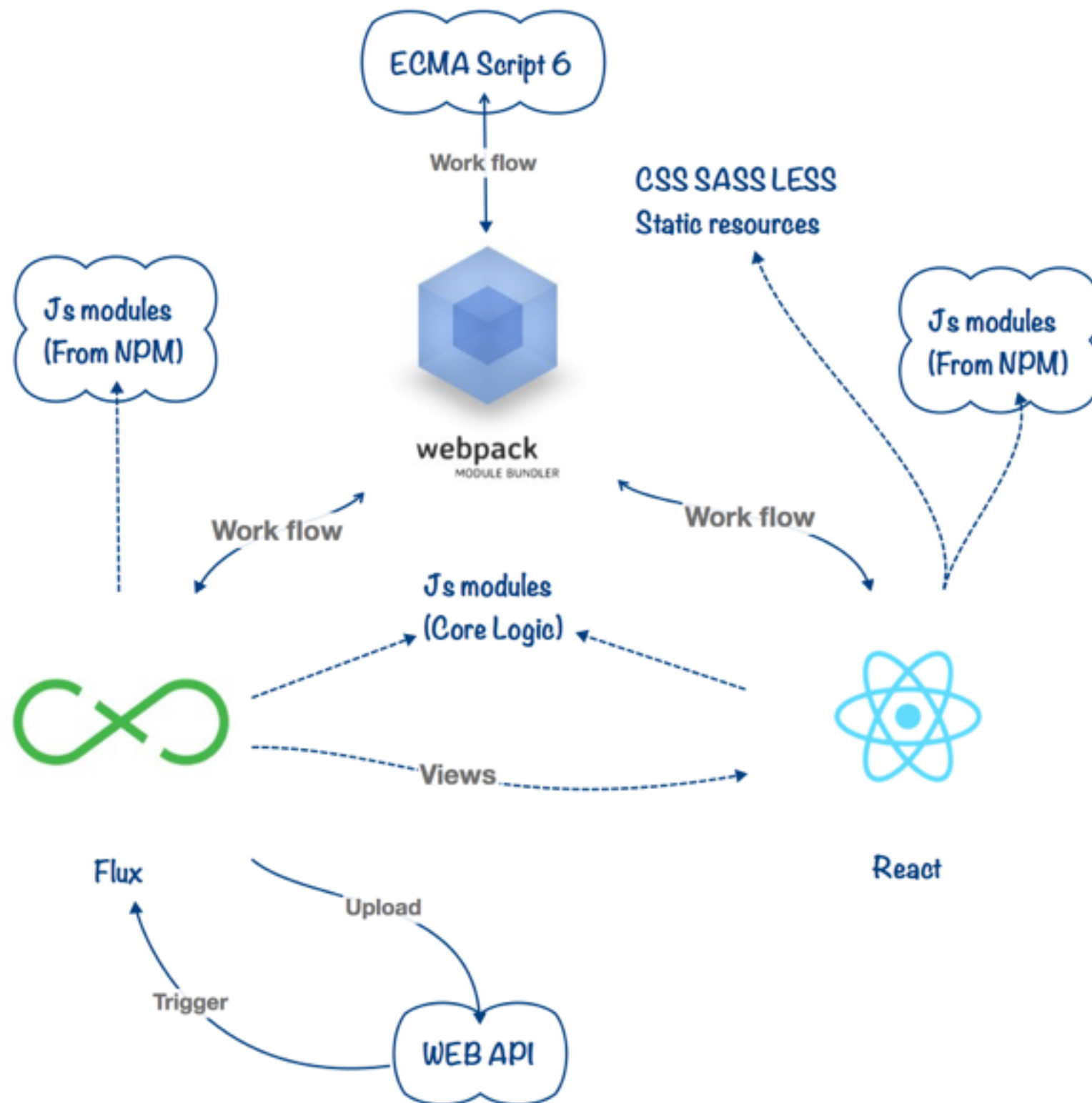
webpack
MODULE BUNDLER

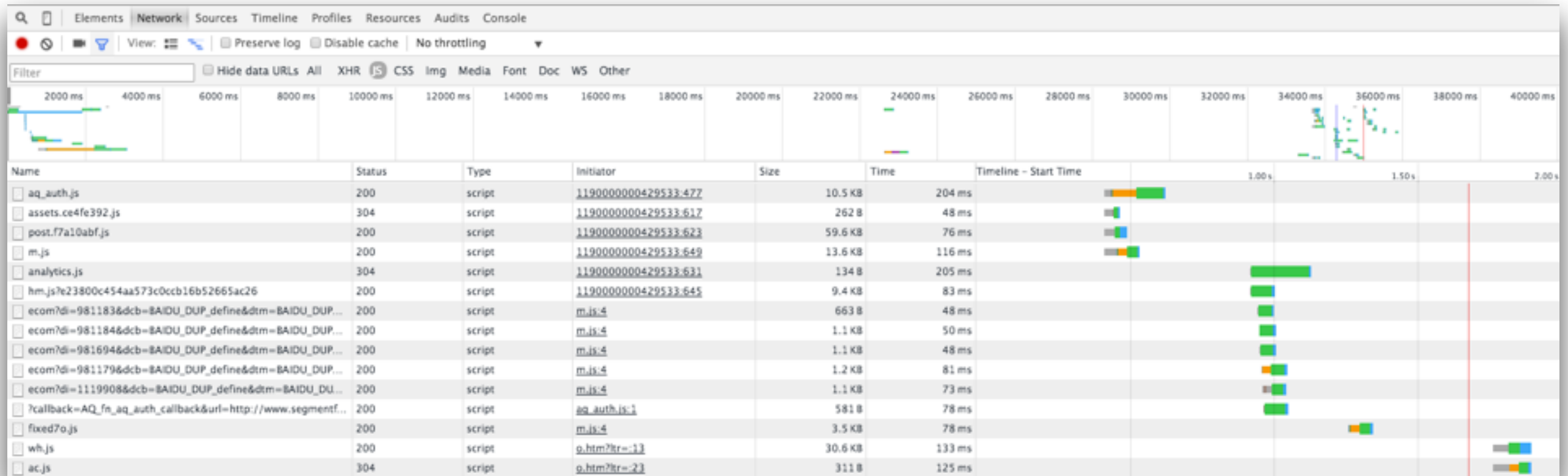


Flux



React





Build scripts file into chunks

npm install webpack -g
or
npm install webpack --save-dev

Webpack loader

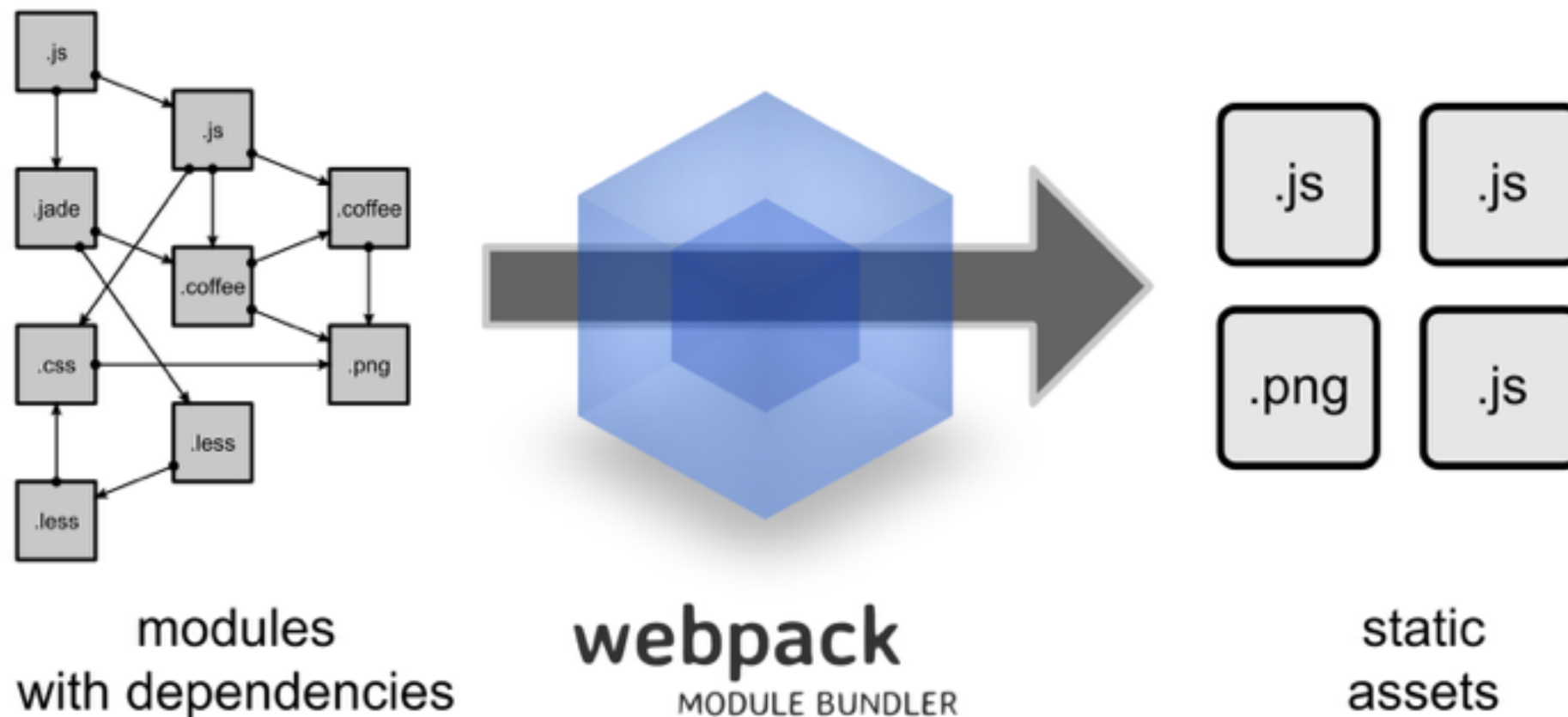
```
npm install babel-loader --save-dev
```

- ✓ Array comprehensions
- ✓ Arrow functions
- ✓ Async functions
- ✓ Async generator functions
- ✓ Classes
- ✓ Class properties
- ✓ Computed property names
- ✓ Constants
- ✓ Decorators
- ✓ Default parameters
- ✓ Destructuring
- ✓ Exponentiation operator
- ✓ For-of
- ✓ Function bind
- ✓ Generators
- ✓ Generator comprehensions
- ✓ Let scoping
- ✓ Modules
- ✓ Module export extensions
- ✓ Object rest/spread
- ✓ Property method assignment
- ✓ Property name shorthand
- ✓ Rest parameters
- ✓ React
- ✓ Spread
- ✓ Template literals
- ✓ Type annotations
- ✓ Unicode regex

How to load files when needed

[list of webpack loaders](#)

require css || less || sass



npm install css-loader style-loader sass-loader
— save-dev

Webpack dev server

```
npm install webpack-dev-server -g  
or  
npm install webpack-dev-server --save-dev
```

React

npm install react —save

Define Render() using JSX syntax

Define properties

Define state

Attach event handler

BABEL Learn ES2015 Setup Usage - Advanced - Try it out FAQ Community Blog Twitter GitHub

ES2015 and beyond

By default, Babel ships with a set of ES2015 syntax transformers. These allow you to use new syntax, **right now** without waiting for browser support. [Learn more →](#)

- ✓ Array comprehensions
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- ✓ Unicode regex

```
export default React.createClass({
  getInitialState() {
    return { num: this.getRandomNumber() };
  },

  getRandomNumber(): number {
    return Math.ceil(Math.random() * 6);
  },

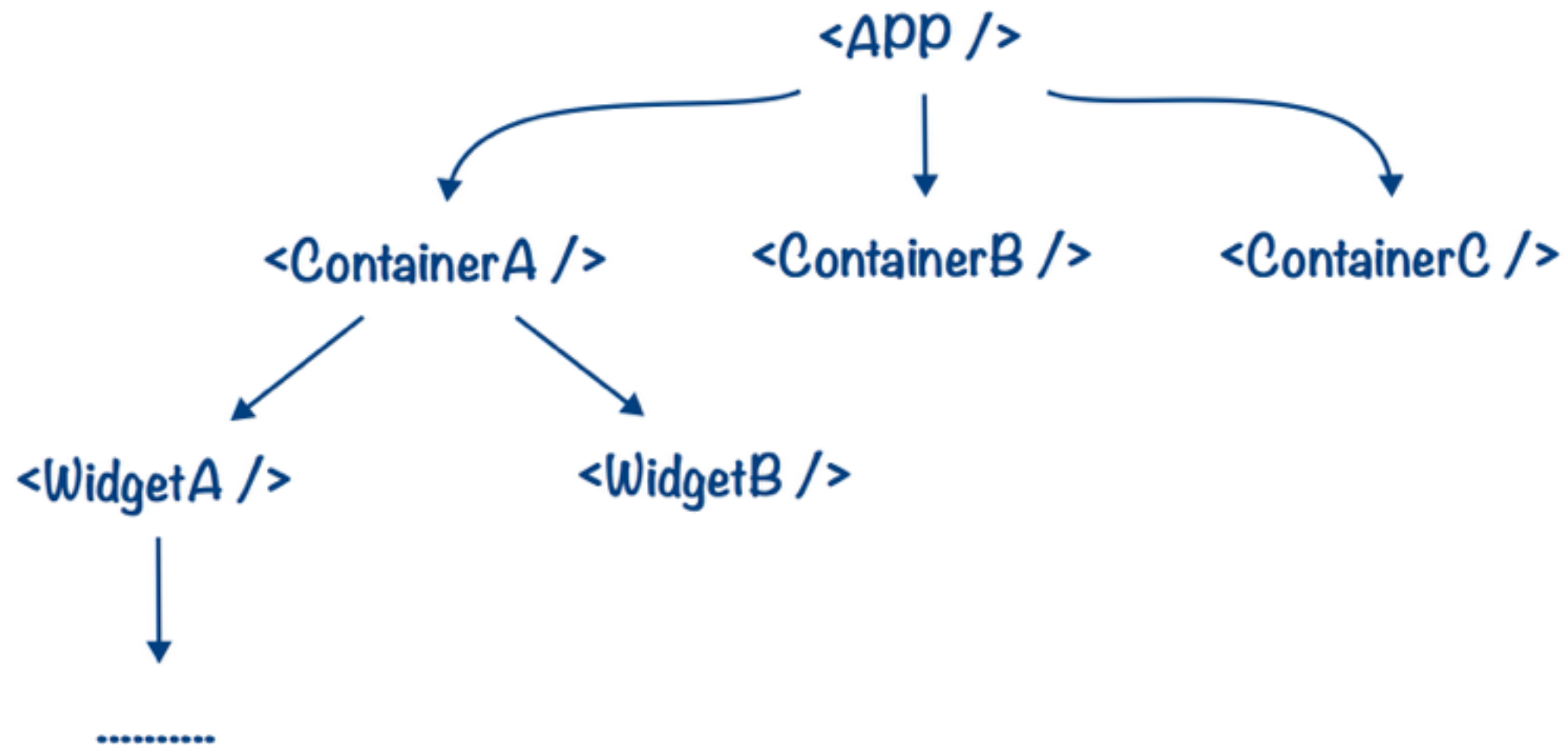
  render(): any {
    return <div>
      Your dice roll:
      {this.state.num}
    </div>;
  }
});
```

JSX and React

Babel ships with built-in support for JSX. Use it together with the [babel-sublime](#) package to bring syntax highlighting to a whole new level.



Reconciliation



Hot loading

```
npm install react-hot-loader —save-dev
```



Unit test

 Jest

DOCS SUPPORT GITHUB

```
// __tests__/CheckboxWithLabel-test.js

jest.dontMock('../CheckboxWithLabel.js');
describe('CheckboxWithLabel', function() {
  it('changes the text after click', function() {
    var React = require('react/addons');
    var CheckboxWithLabel = require('../CheckboxWithLabel.js');
    var TestUtils = React.addons.TestUtils;

    // Render a checkbox with label in the document
    var checkbox = TestUtils.renderIntoDocument(
      <CheckboxWithLabel labelOn="On" labelOff="Off" />
    );

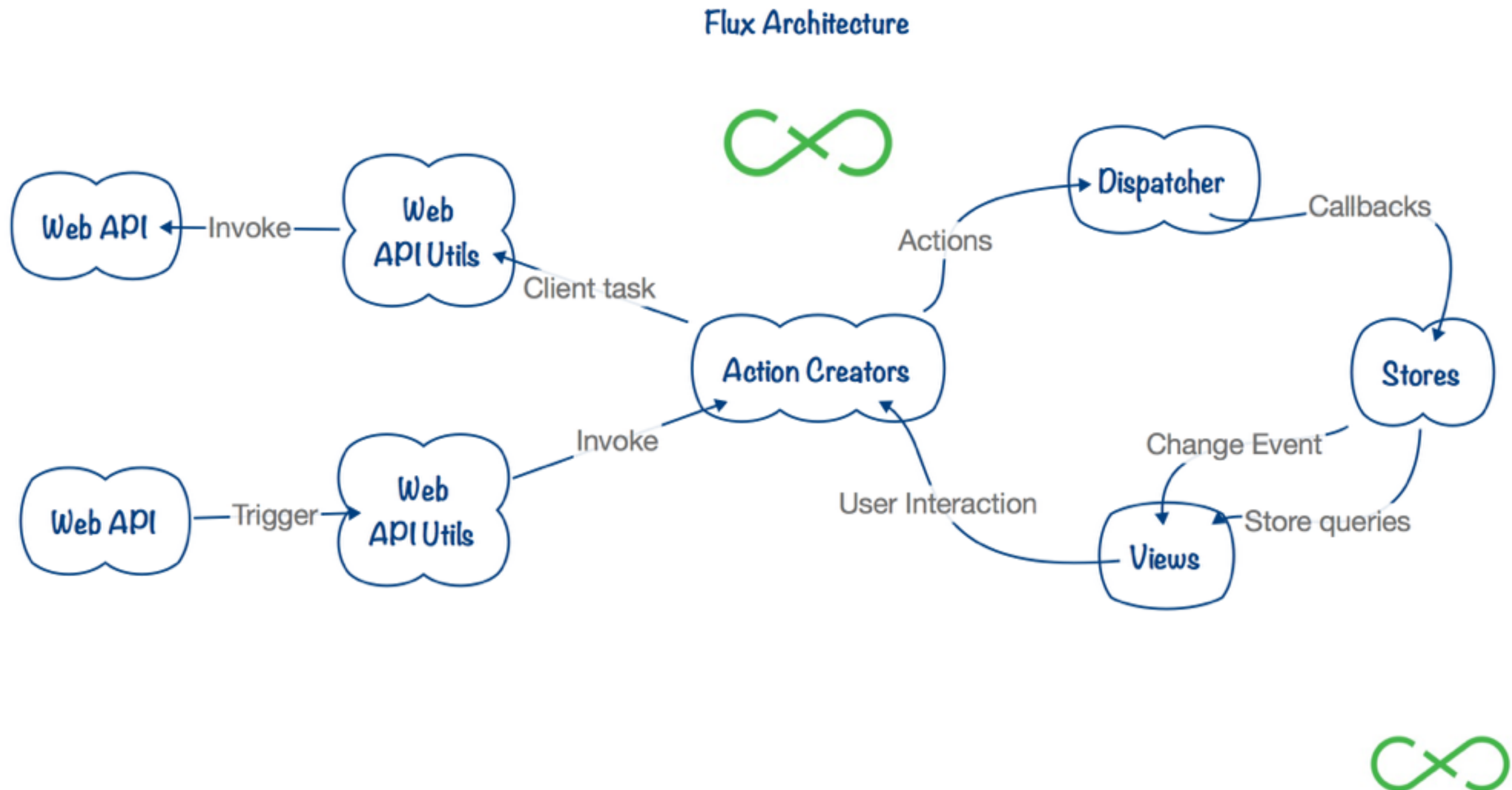
    // Verify that it's Off by default
    var label = TestUtils.findRenderedDOMComponentWithTag(
      checkbox, 'label');
    expect(React.findDOMNode(label).textContent).toEqual('Off');

    // Simulate a click and verify that it is now On
    var input = TestUtils.findRenderedDOMComponentWithTag(
      checkbox, 'input');
    TestUtils.Simulate.change(input);
    expect(React.findDOMNode(label).textContent).toEqual('On');
  });
});
```

facebook.github.io/jest/docs/tutorial-react.html



Arrange code in flux application



Which Flux Implementation to Use?

- ✓ Facebook Flux
- ✓ Fluxible by Yahoo
- ✓ Reflux
- ✓ Alt
- ✓ Flummox
- ✓ Marty.js
- ✓ McFly
- ✓ Lux
- ✓ Material Flux
- ✓ Redux
- ✓ Nuclear.js
- ✓ Fluxette
- ✓ Fluxxor

github.com/voronianski/flux-comparison



Chat room demo

Unread threads: 2

Bill and Brian

Jing and Bill1:24:21 PM

Sounds good. Will they be serving dessert?

Dave and Bill1:24:41 PM

Totally! Meet you at the hotel bar.

Bill and Brian1:25:01 PM

At ForwardJS? Yeah, of course. See you there!

Bill1:24:51 PM

Hey Brian, are you going to be talking about functional stuff?

Brian1:25:01 PM

At ForwardJS? Yeah, of course. See you there!

github.com/facebook/flux/tree/master/examples/flux-chat

