Minimalist React

David Colgan
Less Boring
@davidscolgan

A parable

How do I build complicated software?

I have no idea, build simple software.

My influences

Prentice Hall Series in Artificial Intelligence

ANSI Common Lisp

Paul Graham

PRENTICE HALL

Hammock Driven Development

Step Away from the Computer
Rich Hickey
0:24 / 39:48

The Zen of Python

The Zen of Python, by Tim Peters

Beautiful is better than ugly.
Explicit is better than implicit.
Simple is better than complex.
Complex is better than complicated.
Flat is better than nested.
Sparse is better than dense.
Readability counts.
Special cases aren't special enough to break the rules.
Although practicality beats purity.
Errors should never pass silently.
Unless explicitly silenced.
In the face of ambiguity, refuse the temptation to guess.
There should be one-- and preferably only one --obvious way to do it.
Although that way may not be obvious at first unless you're Dutch.
Now is better than never.
Although never is often better than *_right_* now.
If the implementation is hard to explain, it's a bad idea.
If the implementation is easy to explain, it may be a good idea.
Namespaces are one honking great idea -- let's do more of those!

Frontend dev is complicated

Why is frontend dev complicated?

VS

Cross browser testing

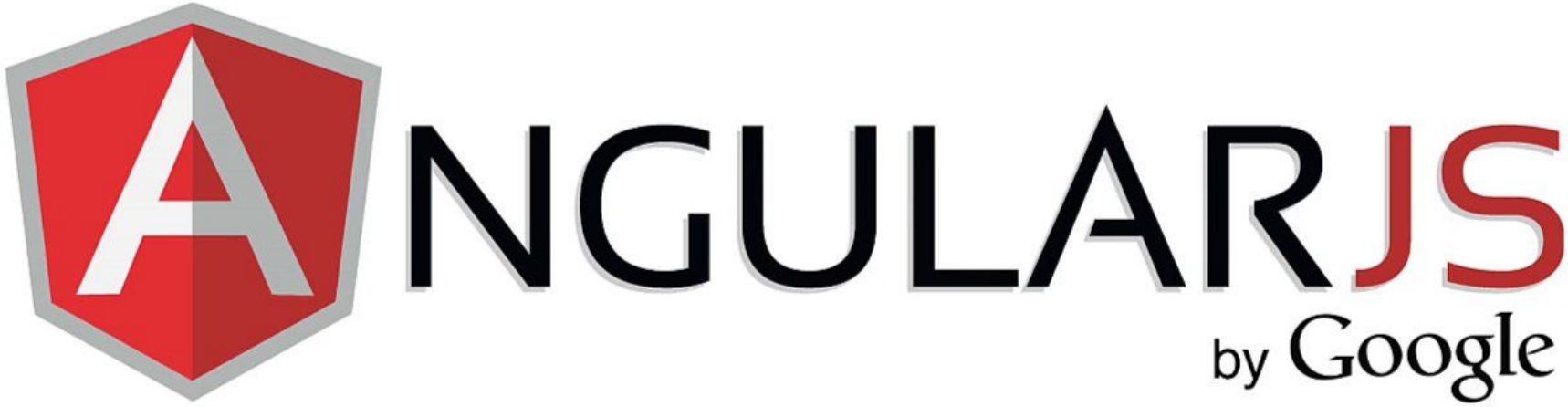
jQuery
write less, do more.

chrome

Thicker client apps

BACKBONE.JS

Knockout.


ANGULARJS
by Google

DAYS

SINCE LAST NEW JAVASCRIPT FRAMEWORK

I Am Devloper
@iamdevloper

Follow

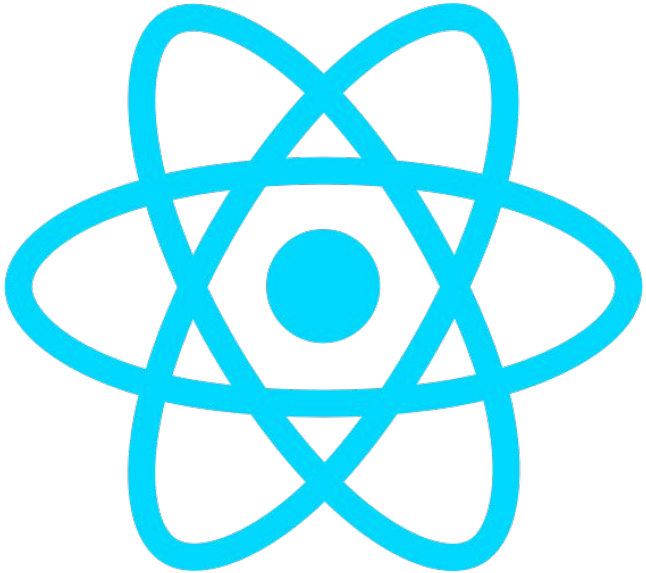
I think I've had milk last longer than some JavaScript frameworks.

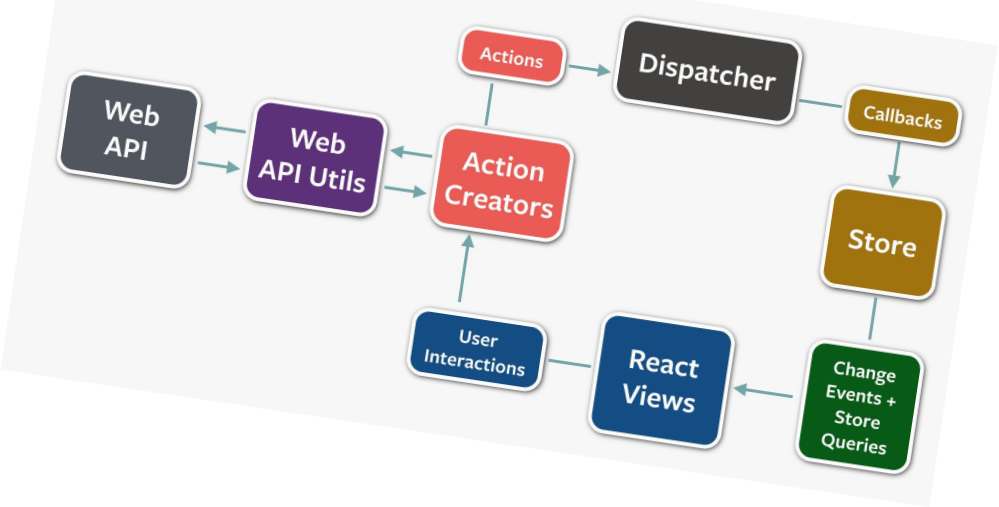
RETWEETS 1,397 FAVORITES 875

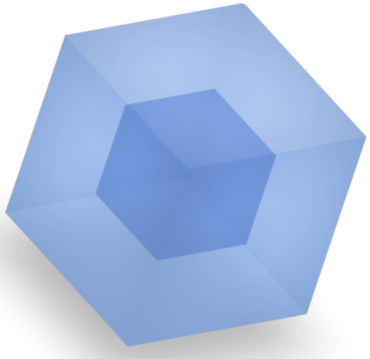
6:22 AM - 4 Dec 2014

Where are we now?

React is simple



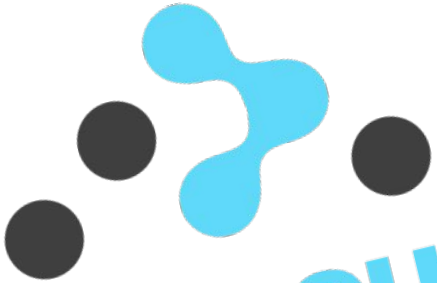




webpack
MODULE BUNDLER

Stuff around React is complex

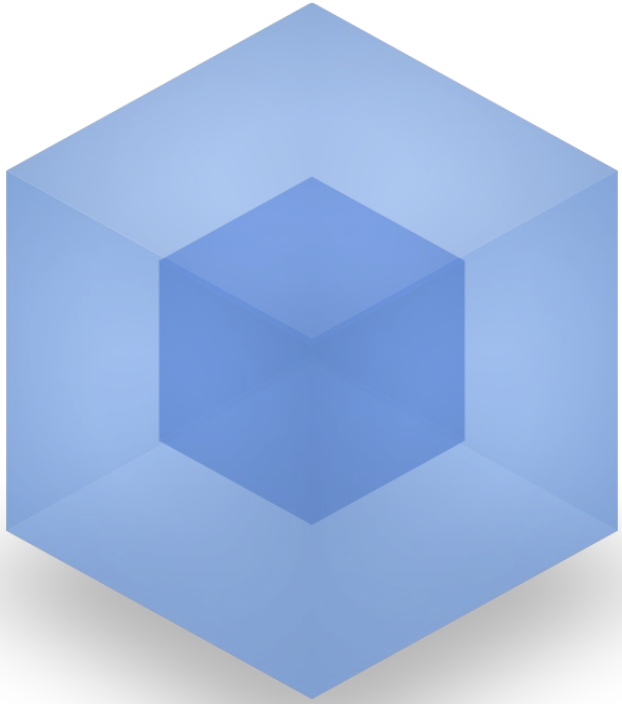
Redux



REACT ROUTER

3 ideas for ways to simplify your React

1. Can you simplify your (React) stack?



webpack

MODULE BUNDLER

Nader Dabit Follow
Software Developer Specializing in Teaching and Building React Native
Oct 28, 2015 · 11 min read

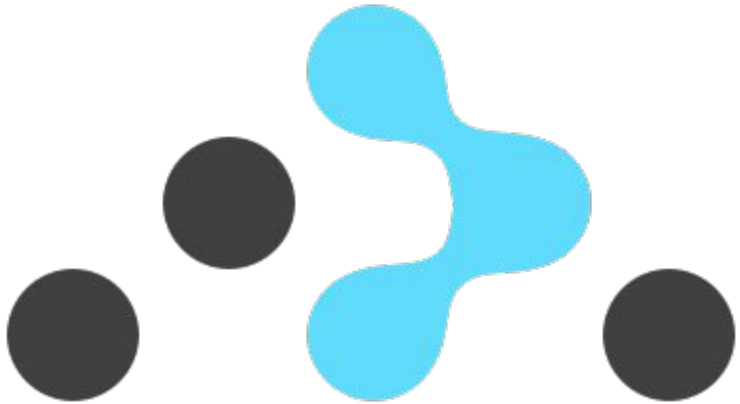
Introduction to Using NPM as a Build Tool

To learn more about this topic, I highly recommend this Pluralsight tutorial for a more detailed overview.

npm is gaining more and more steam as a replacement for other build tools such as Gulp, Grunt, Bower, and others. While the previously mentioned ar great tools, node provides a great way to implement build processes with only npm and your package.json file. Here, we will go into an introduction

```
"scripts": {
  "start": "npm run watch-client & npm run watch-scss",
  "watch-client": "watchify --debug index.ts -p tsify -o assets/bundle.dev.js",
  "watch-server": "nodemon --watch 'src/**/*' --exec 'fuser -k 8000/tcp; ts-node' src/server.tsx",
  "watch-scss": "nodemon -e scss -x \"npm run build-scss\"",
  "build-scss": "node-sass --include-path=scss scss/main.scss assets/styles.css",
  "test": "ts-node tests/e2e/index.ts | faucet",
  "prod": "NODE_ENV=prod browserify index.ts -p tsify | uglifyjs > assets/bundle.prod.min.js"
},
```

Do you need a routing library?



REACT ROUTER

Konstantin Tarkus Follow

Web developer, mentor, freelancer (@kriasoft), author of React Starter Kit—popular "isomorphic" web app b...

Jul 10, 2016 · 5 min read

You might not need React Router

If you happened to work with Facebook's React.js library for a while, you might notice a few misconceptions floating in the React community. One of them is the affirmation that React is just V from MVC architecture and needs to be mixed with a bunch of other libraries before it can be used as a framework for developing web applications.

Do you really need a single page app?

django

Do you really need a model layer?

Redux

Dan Abramov Follow
Librarian. Team @reactjs. Created Redux, React Hot Loader, React DnD. Personal opinions.
Sep 19, 2016 · 3 min read

You Might Not Need Redux

People often choose Redux before they need it. “What if our app doesn
scale without it?” Later, developers frown at the indirection Redux
introduced to their code. “Why do I have to touch three files to get a si
feature working?” Why indeed!

People blame Redux, React, functional programming, immutability, an
many other things for their woes, and I understand them. It is natural
compare Redux to an approach that doesn’t require “boilerplate” code
update the state, and to conclude that Redux is just complicated. In a

Abstractions are not free,
but sometimes are worth it

Everything in software is a tradeoff

2. Is your tech cutting edge or bleeding edge?

React
A JAVASCRIPT LIBRARY FOR BUILDING USER INTERFACES
Get Started
Download React v0.4.1

Patrick McKenzie
@patio11

Following

If you build on a new stack you will end up bleeding all over it, and there are better topics to bleed over if you're small & scrappy.

RETWEETS 12 LIKES 37

Ricky Vetter Follow
@socialtables engineer, @chipotle advocate, @colorado native
May 18, 2015 · 4 min read

We Compared 13 Top Flux Implementations—You Won't Believe Who Came Out On Top!

We've been using React with and without Flux for a little more than a year at Social Tables. Over this time we've implemented many flavors of state management from direct copies of Facebook's Flux tutorials to weird event-emitting-prop-passed-functions tied to callbacks… :facepalm:. But in the last couple of months the desire to have a standardized methodology for all of our products has grown. So, we decided it was time to sort through the massive list of flux libraries out there, put them to the test, and let the best

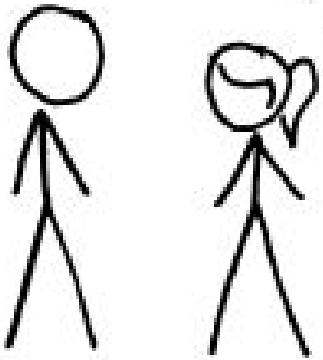
HOW STANDARDS PROLIFERATE:

(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION:
THERE ARE
14 COMPETING
STANDARDS.

14?! RIDICULOUS!
WE NEED TO DEVELOP
ONE UNIVERSAL STANDARD
THAT COVERS EVERYONE'S
USE CASES.

YEAH!



SOON:

SITUATION:
THERE ARE
15 COMPETING
STANDARDS.

Stable technologies may be simpler

1.11 release

- Django 1.11.1 release notes
- Django 1.11 release notes

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- Django 1.0.1 release notes
- Django 1.0 release notes

Pre-1.0 releases

- Django version 0.96 release notes
- Django version 0.95 release notes

Don't make the technology the risk in your business
-patio11

Nintendo®

Nintendo's Little-Known Product Philosophy: Lateral Thinking with Withered ("Weathered") Technology

Happiness is a Boring Stack

I spend way too much time on Hacker News. It's a fun place, and a good way to keep up to date on all the new tech that us developer folk seem to need to know about. But it also leaves a fella feeling like he **really needs to keep up** with all this stuff. I mean, if you don't have a side project using the latest client-side framework, well, good luck ever finding a job again in this industry.

Thinking about it, I find that I straddle the line on this. As a long-time contractor, I try to stay up to date on the New Shiny and will happily run with whatever flavor of the month language, framework, and programming paradigm that a given gig wants. Yeah, sure, Node.js with tons of functional stuff mixed in pulling from a NoSQL store and React on the front end. I'm your guy. We're gonna change the world!

But for my own stuff, there's no way I'd use any of that crap. Good old C#, SQL Server and a proper boring stack and tool set that I know won't just up and fall over on a Saturday morning and leave me debugging NPM dependencies all

Just because a new tech exists doesn't mean you have to use it

3. Let the computer hold your hand as much as possible

Java EE™

RAILS

Opinionated software

React on Rails!

Quick Overview

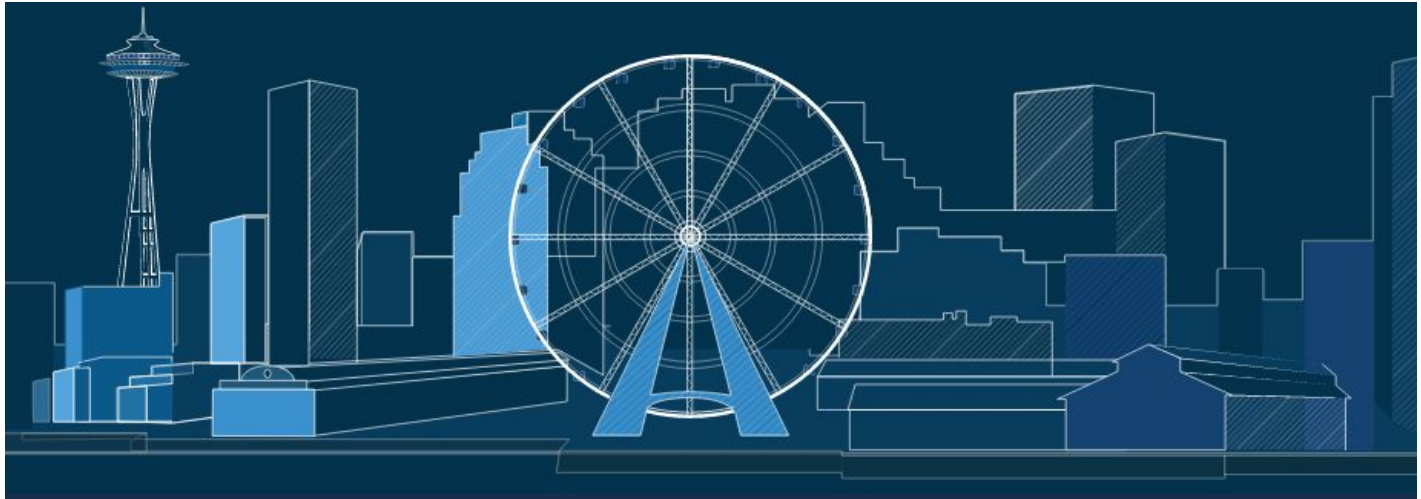
```
npm install -g create-react-app

create-react-app my-app
cd my-app/
npm start
```

Use a linter

Ladies and Gentlemen,
this is ...
jgs

```
60
61 @observer
62 export default class Login extends React.Component<{location: {query: {next?: string}}}, {}> {
63     store: LoginStore = new LoginStore();
64     componentWillMount() {
65         this.init();
66     }
67     componentWillReceiveProps() {
68         this.init();
69     }
70     init() {
71         this.store.init(this.props.location.query.next || '');
72
73     handleSubmit = (e: any) => {
74         e.preventDefault();
75         this.store.login()
76     }
77
78     handleChange = (name: keyof LoginCredentials) => (e: any) => {
79         this.store.credentials[name] = (e.target as any).value;
80     }
81
82     render() {
83         return (
```

Static type checking?



TypeScript

JavaScript that scales.

TypeScript is a typed superset of JavaScript that compiles to plain JavaScript.

Any browser. Any host. Any OS. Open source.

Download Documentation

Automated testing

Resources

- Hammock Driven Development by Rich Hickey
- Introduction to Using NPM as a Build Tool by Nader Dabit
- Nintendo’s Little-Known Product Philosophy: Lateral Thinking with Withered (“Weathered”) Technology by Adam Ghahramani
- Zen of Python: do `import this`

KaDiS Photo

Google

the best cat picture

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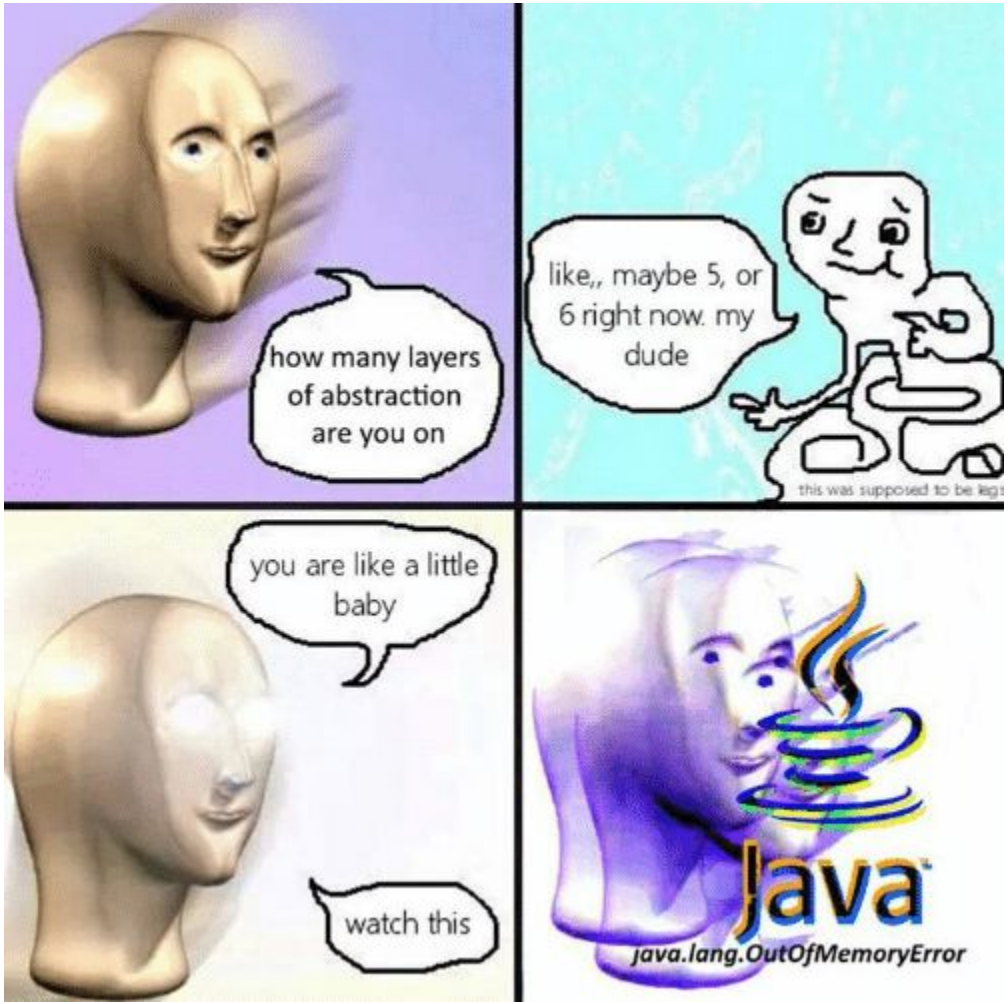
how many layers of abstraction are you on
like,, maybe 5, or 6 right now. my dude
this was supposed to be leg
you are like a little baby
watch this
Java
java.lang.OutOfMemoryError