

Building a JavaScript Development Environment

YOU NEED A STARTER KIT



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Do you like to fail fast?



Do you like rapid feedback?



Want to know immediately
when a test is failing?



Overwhelmed by
all the options?



So. Many. Decisions.

Editor

Which one?

Which plugins?

Use built in terminal?

Editor config

Module format

ES6 Modules, CommonJS...

HTML generation

Minify?

Use plugin?

Inject prod only concerns?

Templating language?

Transpiling

Native ES or diff language?

Use experimental features?

Which plugins?

Production vs dev config

Bundler

Webpack, Browserify, Rollup...

Linting

Which linter?

Enable which rules?

Warning or error?

Which plugins?

Use a preset?

Testing

Framework?

Assertion Library?

Helpers?

Test file location?

File naming?

What environment?

Mocking?

Code Coverage

Continuous Integration

Project structure

By file type or feature?

Centralize API?

Allow Inline JS?

Extract to POJOs?

HTTP

Library

Mock schema format

Mock data generation

Mock server

Production build

Minification

Sourcemaps

Bundle splitting

Cache busting

Error logging



Overwhelmed yet?



Make "best practices"
automatic.



Your team *needs* a
JavaScript starter kit.



Starter kits speed
development, increase
quality and reduce fatigue.





Why a Starter Kit?

Codifies

- Decisions
- Best practices
- Lessons learned

Encourages consistency

Avoids forgetting important details

Increases quality

- Doing the “right” thing is the easy thing

Avoids repeating work



Today's list of "best practices" is too long for any individual to track.

Create a starter kit that does it for you.



A Starter Kit is Automated Checklist



Line Checklist



1. Wash their hands with soap
2. Clean patient's skin with chlorhexidine
3. Put sterile drapes over entire patient
4. Wear sterile mask, hat, gown & gloves
5. Put sterile dressing over catheter



THE NEW YORK TIMES BESTSELLER

THE CHECKLIST MANIFESTO

HOW TO GET THINGS RIGHT



PICADOR

ATUL GAWANDE

BESTSELLING AUTHOR OF BETTER AND COMPLICATIONS

We think we can remember all the steps.

We can't.



THE NEW YORK TIMES BESTSELLER

THE CHECKLIST MANIFESTO

HOW TO GET THINGS RIGHT



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Dramatic Results

10 day line-infection rate
Fell from 11% to 0%

Checklist prevented:
43 infections
8 deaths
\$2 million



THE NEW YORK TIMES BESTSELLER

THE CHECKLIST MANIFESTO

HOW TO GET THINGS RIGHT



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Doctors know what to do,
but **it's easy to overlook a step.**



THE NEW YORK TIMES BESTSELLER

THE CHECKLIST MANIFESTO

HOW TO GET THINGS RIGHT



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Developers



Doctors know what to do,
but it's easy to overlook a step.



A starter kit is a living,
automated, and interactive
checklist.



Who Is This Course For?

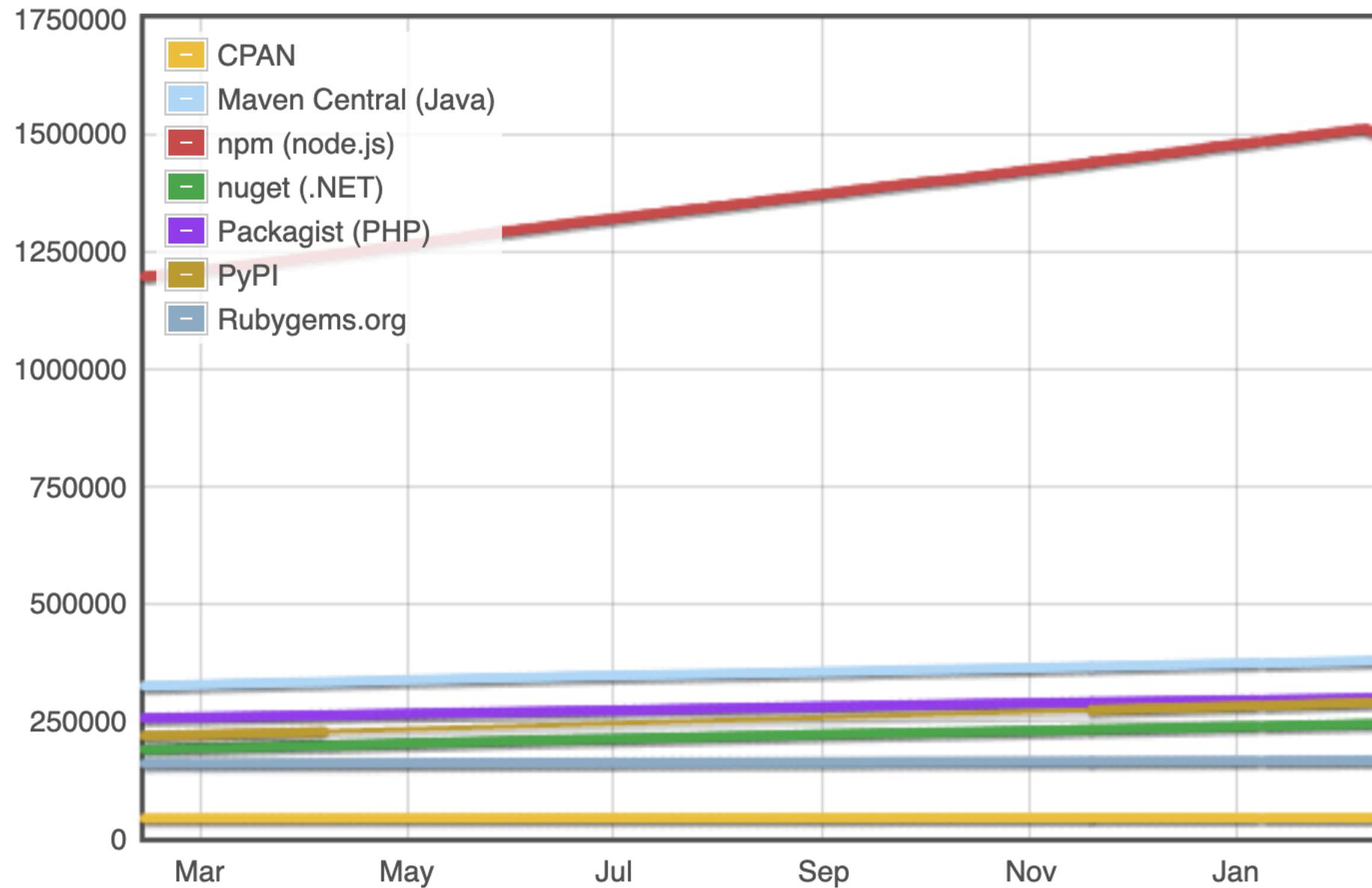


“Any application that *can* be written in JavaScript, *will* eventually be written in JavaScript.”

Atwood’s Law



Module Counts



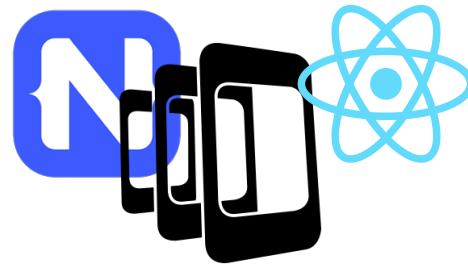
JavaScript Is Everywhere



Web



Server



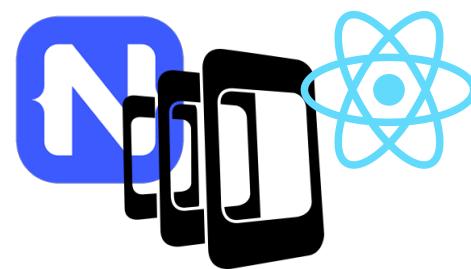
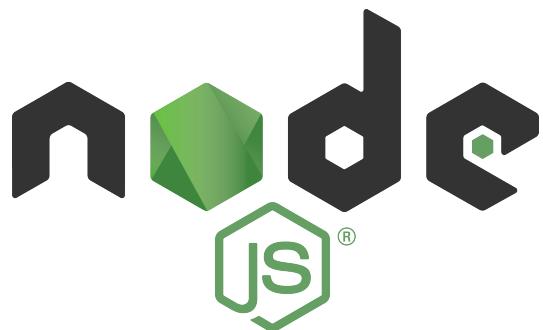
Mobile



Desktop



This Course Is For JS Developers



Web
Demo

Server
Build tool & API

Mobile

Desktop



Who Doesn't Need This Course?



Highly opinionated and comprehensive frameworks



React

Node

Angular

Ember

Opinion →



Boilerplate

Save time

Proven

Full-featured

Build your own

Freedom

Perfect fit for your team

No unnecessary complexity

Understand it

Easier to change



What Belongs in Your Starter Kit?

Package Management

Bundling

Minification

Sourcemaps

Transpiling

Dynamic HTML Generation

Centralized HTTP

Mock API framework

Component libraries

Development Webserver

Linting

Automated testing

Continuous Integration

Automated build

Automated deployment

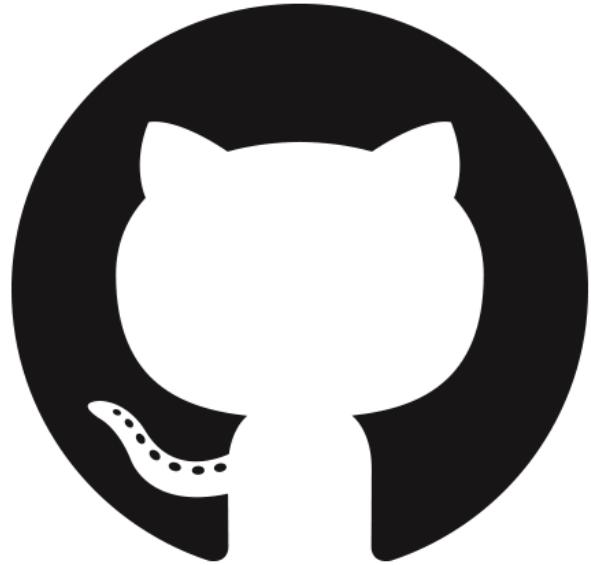
Working example app



Here's the Plan...



Github



Why?

- Module 9: Continuous Integration
- Module 13: Automated Deploy





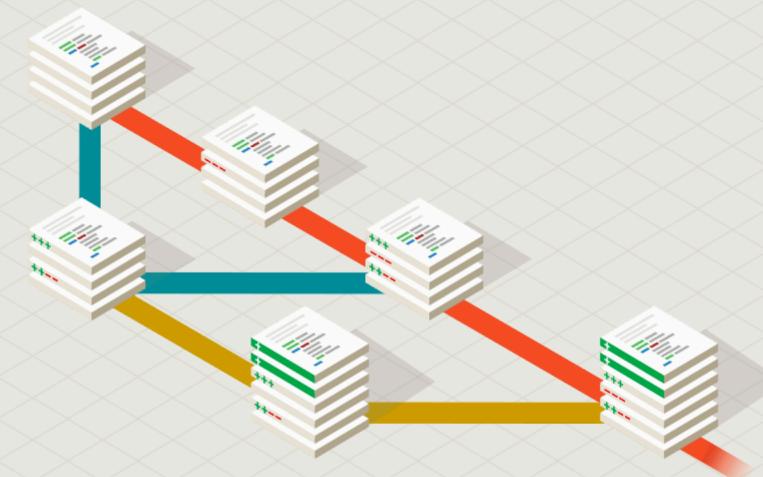
git --local-branching-on-the-cheap



Search entire site...

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient staging areas, and **multiple workflows**.



About

The advantages of Git compared to other source control systems.



Documentation

Command reference pages, Pro Git book content, videos and other material.



Downloads

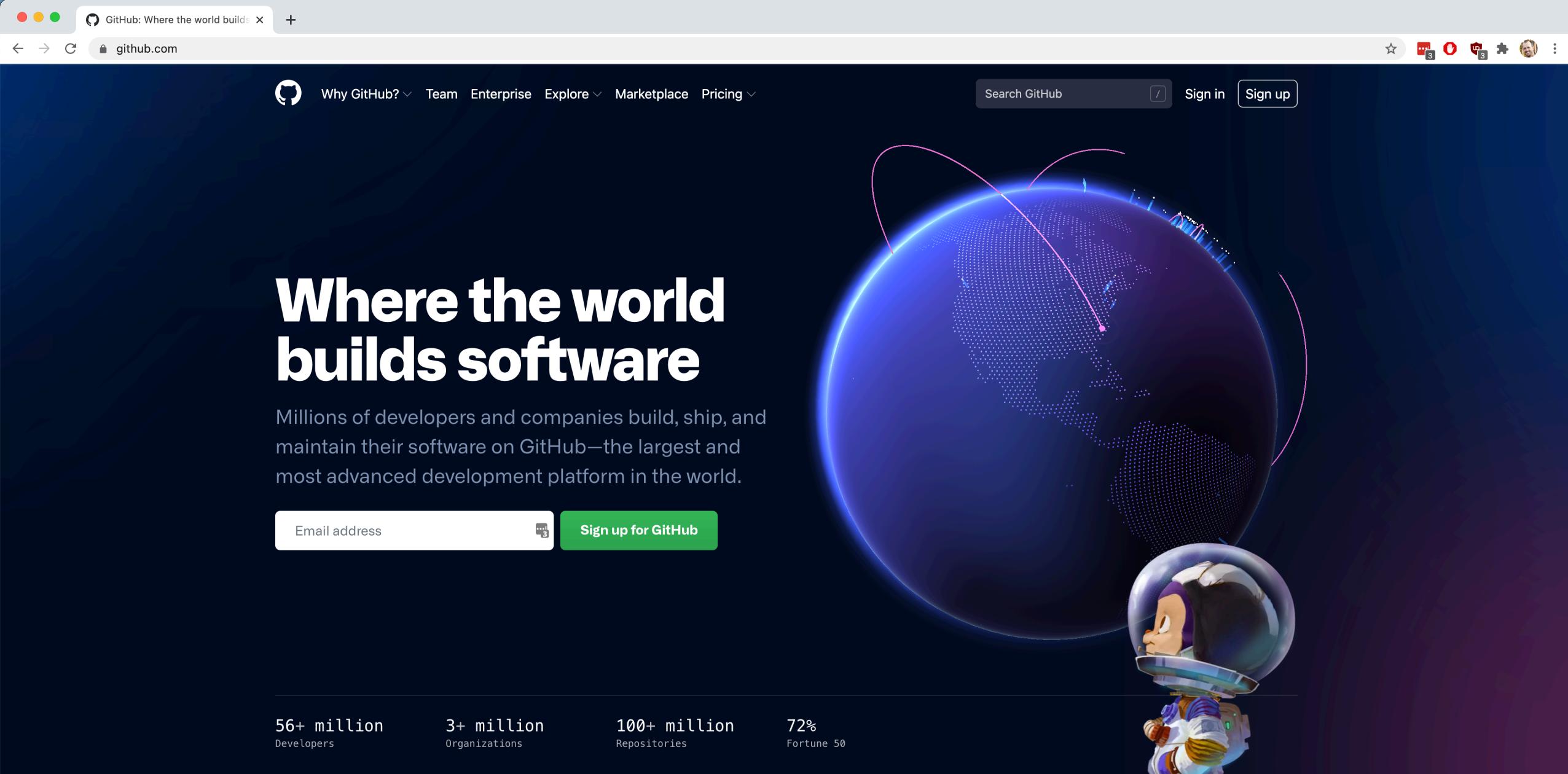


Community

Latest source Release
2.30.1
[Release Notes \(2021-02-08\)](#)

[Download 2.27.0 for Mac](#)

Step 1: Install Git



Step 2: Create Github Account



Search GitHub

Pull requests Issues Gist



Create a new repository

A repository contains all the files for your project, including the revision history.

Owner



Repository name

coryhouse ▾

/ pluralsight-js-dev-env



Great repository names are short and memorable. Need inspiration? How about [furry-goggles](#).

Description (optional)

JavaScript Development Environment from Pluralsight Course with Cory House

**Public**

Anyone can see this repository. You choose who can commit.

**Private**

You choose who can see and commit to this repository.

**Initialize this repository with a README**

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: Node ▾

Add a license: None ▾



Step 3: Create Github Repository



This repository Search

Pull requests Issues Gist



coryhouse / pluralsight-js-dev-env

Unwatch 1

Star 0

Fork 0

Code

Issues 0

Pull requests 0

Projects 0

Wiki

Pulse

Graphs

Settings

JavaScript Development Environment from Pluralsight Course with Cory House — Edit

1 commit

1 branch

0 releases

1 contributor

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾



coryhouse Initial commit

.gitignore

Initial commit

README.md

Initial commit

README.md

Clone with HTTPS ⓘ

Use SSH

Use Git or checkout with SVN using the web URL.

<https://github.com/coryhouse/pluralsight-j>



Open in Desktop

Download ZIP

pluralsight-js-dev-env

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Step 4: Clone Repository



coryhouse — bash — 97x27

~ — bash

```
Last login: Sat Oct 22 16:10:11 on ttys002
-bash: alias: desktop: not found
-bash: alias: cd ~Desktop: not found
```

```
| ~ @ Mac (coryhouse)
| => git clone https://github.com/coryhouse/js-dev-env-demo.git
```

Step 4: Clone Repository

1. Stage all the files you changed

```
git add .
```

2. Commit your changes locally

```
git commit -m "added new feature"
```

3. Push your work to Github

```
git push
```

Course Agenda



Synonyms

X == y

JavaScript Development Environment
Boilerplate
Starter Kit
Seed
Starter Project



The Rhythm

1

Options

2

Recommendation

3

Implement



Course Outline

- 1. **Intro**
- 2. **Editors and configuration**
- 3. **Package management**
- 4. **Development webserver**
- 5. **Automation**
- 6. **Transpiling**
- 7. **Bundling**
- 8. **Linting**
- 9. **HTTP**
- 10. **Testing and CI**
- 11. **Project structure**
- 12. **Production build**
- 13. **Automated deployment**



Wrap Up



You need a starter kit

- Reduce decision fatigue
- Right thing becomes automatic
- Codifies lessons learned
- Rapid feedback
- Automated checklist

Writing JS? This course is for you.

Next up: Editor and configuration

