Approaching a New Codebase

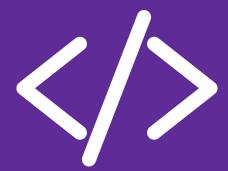
with confidence and comfort



Ramón Huidobro

@hola_soy_milk

We've all been there:

















"Ok, go do the thing!"

"Ok, go do the thing!"

"Ok, go add that function!"

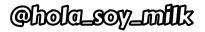
"Ok, go fix that bug"

"Ok, go do the thing!"

"Ok, go add that function!"



Right, but where to begin?





I'm Ramón.

(he/him)

Developer Relations @ Suborbital

DevRel Consultant

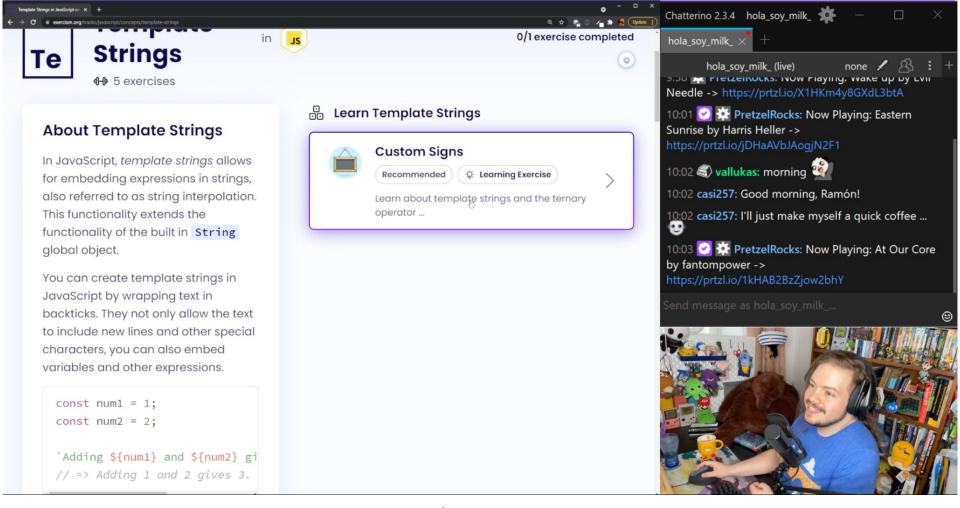
Developer Educator

Ruby, JS, Rust

Mozilla tech speaker

Tech Career Mentor

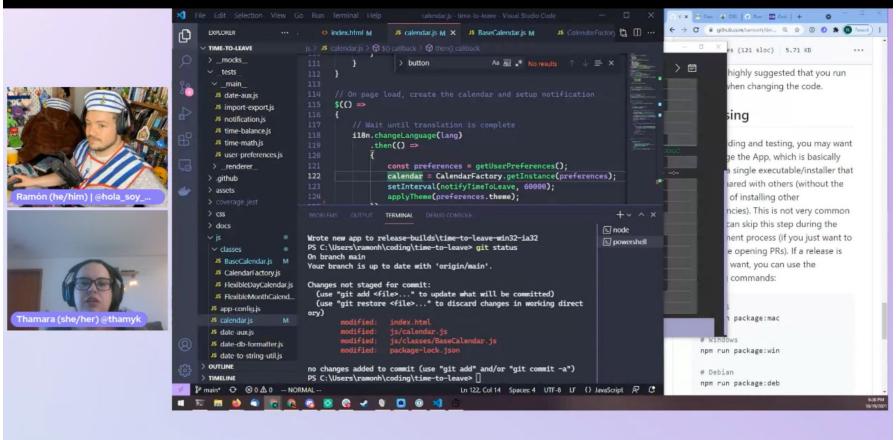
Live Streamer



twitch.tv/hola sou milk







l enter new codebases a lot, and often don't know where to start

Let's navigate an example...



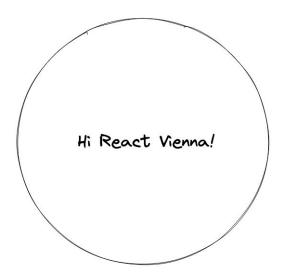
EXCALIDRAW

Sketch hand-drawn like diagrams





To move canvas, hold mouse wheel or spacebar while dragging



ffffff

Diving into a complex codebase

 Getting the code up and running!

LICENSE	Add MIT License (#176)	2 years ago
README.md	docs: Added note on encryption key length (#3995)	7 days ago
crowdin.yml	Locale	2 years ago
docker-compose.yml	chore: Update action versions and docker build (#30	7 months ago
package.json	feat: improve freedraw shape (#3984)	12 days ago
tsconfig-types.json	feat: export types for package @excalidraw/excalid	6 months ago
tsconfig.json	refactor: improve types around dataState and library	6 months ago
vercel.json	chore: Make deploy source and logs public (#3596)	5 months ago
yarn.lock	feat: improve freedraw shape (#3984)	12 days ago

go

TypeScript 92.5%

SCSS 4.3%

JavaScript 2.6%

HTML 0.5%

Shell 0.1%

Dockerfile 0.0%





Virtual whiteboard for sketching hand-drawn like diagrams. Collaborative and end-to-end encrypted.



Get the code up and running!

- Clone the repo
- README.md
- Install dependencies
- Start up a development environment
- Run the tests



Inspector

Inspect and refine code to build pixelperfect layouts.

Learn more 2



Console

Track CSS, JavaScript, security and network issues.

Learn more [2



Debugger

Powerful JavaScript debugger with support for your framework.

Learn more [2



Network

Monitor network requests that can slow or block your site.

Learn more 2



Storage

Add, modify and remove cache, cookies, databases and session data.

Learn more L



Responsive Design Mode

Test sites on emulated devices in your browser.

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Visual Editing

Fine-tune animations, alignment and padding.

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Performance

Unblock bottlenecks, streamline processes, optimize assets.

Learn more

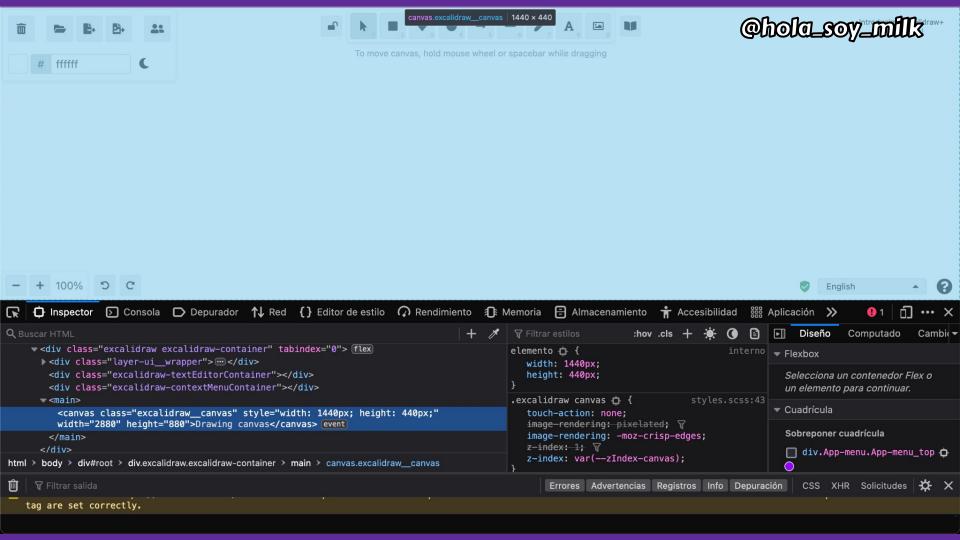


Memory

Find memory leaks and make your application zippy.

Learn more [2

https://firefox-dev.tools



Version 1.62 is now available! Read about the new features and fixes from October.

bassysbutts

Overview

SETUP

GET STARTED

USER GUIDE

Basic Editing

Extension Marketplace

IntelliSense

Code Navigation

Refactoring

Debugging

Version Control

Working with GitHub

VS Code for the Web

Integrated Terminal

Tasks

Settings Sync

Snippets

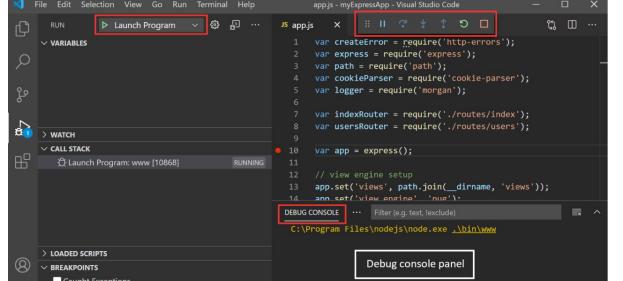
Emmet

Debugging

One of the key features of Visual Studio Code is its great debugging support. VS Code's built-in debugger helps accelerate your edit, compile, and debug loop.

Start debugging

Pause, step over, step in/out, restart, stop



IN THIS ARTICLE

Edit

Debugger extensions

Start debugging

Run view

Run menu

Launch configurations

Debug actions

Breakpoints
Logpoints

Data inspection

Launch.json attributes

Variable substitution

Platform-specific properties

Global launch configuration

Advanced breakpoint topics

Debug Console REPL

Redirect input/output to/from the debug target

Multi-target debugging

Remote debugging

And hey, these experiences become knowledge and tools.

Diving into a complex codebase

- Getting the code up and running!
- Going through the dependencies

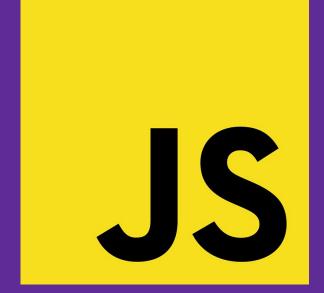
The good ol' Gemfile



The good ol' Cargo.toml



The good of package json



```
"dependencies": {
 "@sentry/browser": "5.30.0",
 "@sentry/integrations": "5.30.0",
 "@testing-library/jest-dom": "5.11.9",
 "@testing-library/react": "11.2.3",
 "atypes/jest": "26.0.20",
 "@types/react": "17.0.0",
 "atypes/react-dom": "17.0.0",
 "@types/socket.io-client": "1.4.35",
 "browser-nativefs": "0.12.0",
 "clsx": "1.1.1",
 "firebase": "8.2.3",
 "i18next-browser-languagedetector": "6.0.1",
 "lodash.throttle": "4.1.1",
 "nanoid": "3.1.20",
 "node-sass": "4.14.1",
 "open-color": "1.8.0",
 "pako": "1.0.11",
 "png-chunk-text": "1.0.0",
  "png-chunks-encode": "1.0.0",
 "png-chunks-extract": "1.0.0",
 "points-on-curve": "0.2.0",
 "pwacompat": "2.0.17",
 "react": "17.0.1",
 "react-dom": "17.0.1",
 "react-scripts": "4.0.1",
 "roughjs": "4.3.1",
 "socket.io-client": "2.3.1",
 "typescript": "4.1.3"
```

```
"scripts": {
  "build-node": "node ./scripts/build-node.js",
  "build:app:docker": "REACT_APP_DISABLE_SENTRY=true react-scripts build",
  "build:app": "REACT APP GIT SHA=$VERCEL GIT COMMIT SHA react-scripts build",
  "build:version": "node ./scripts/build-version.js".
  "build": "npm run build:app & npm run build:version",
  "eject": "react-scripts eject",
  "fix:code": "npm run test:code -- --fix",
  "fix:other": "npm run prettier -- --write",
  "fix": "npm run fix:other & npm run fix:code",
  "locales-coverage": "node scripts/build-locales-coverage.js",
  "locales-coverage:description": "node scripts/locales-coverage-description.js",
  "prettier": "prettier \"**/*.{css,scss,json,md,html,yml}\" --ignore-path=.eslintignore",
  "start": "react-app-rewired start",
  "test:all": "npm run test:typecheck & npm run test:code & npm run test:other & npm run test:app -- --watchAll=false",
  "test:app": "react-scripts test --passWithNoTests",
  "test:code": "eslint --max-warnings=0 --ignore-path .gitignore --ext .js,.ts,.tsx .",
  "test:debug": "react-scripts --inspect-brk test --runInBand --no-cache".
  "test:other": "npm run prettier -- --list-different",
  "test:typecheck": "tsc",
  "test:update": "npm run test:app -- --updateSnapshot --watchAll=false",
  "test": "npm run test:app"
},
```

Diving into a complex codebase

- Getting the code up and running!
- Going through the dependencies
- Piecemeal refactoring

```
import { KEYS } from "../keys";
import { register } from "./register";
import { selectGroupsForSelectedElements } from "../groups";
import { getNonDeletedElements } from "../element";
export const actionSelectAll = register({
  name: "selectAll",
  perform: (elements, appState) => {
    if (appState.editingLinearElement) {
    return {
      appState: selectGroupsForSelectedElements(
          ...appState,
          editingGroupId: null,
          selectedElementIds: elements.reduce((map, element) => {
            if (!element.isDeleted) {
              map[element.id] = true;
            return map;
          }, {} as any),
       getNonDeletedElements(elements),
      commitToHistory: true,
  contextItemLabel: "labels.selectAll",
  keyTest: (event) => event[KEYS.CTRL_OR_CMD] && event.key === KEYS.A,
});
```

./src/actions/actionSelectAll.ts

```
import { KEYS } from "../keys";
import { register } from "./register";
import { selectGroupsForSelectedElements } from "../groups";
import { getNonDeletedElements } from "../element";
export const actionSelectAll = register({
 name: "selectAll",
 perform: (elements, appState) => {
   if (appState.editingLinearElement) {
    return {
      appState: selectGroupsForSelectedElements(
          ...appState,
         editingGroupId: null,
         selectedElementIds: elements.reduce((map, element) => {
           if (!element.isDeleted) {
              map[element.id] = true;
           return map;
         }, {} as any),
       getNonDeletedElements(elements),
      commitToHistory: true,
 contextItemLabel: "labels.selectAll",
 keyTest: (event) => event[KEYS.CTRL_OR_CMD] && event.key === KEYS.A,
});
```

./src/actions/actionSelectAll.ts



Hold up, do you mean refactoring the codebase?



Absolutely not.

Hold up, do you mean refactoring the codebase?







Diving into a complex codebase

- Get the code up and running!
- Go through the dependencies
- Piecemeal refactoring
- Checking out the test suite



Software Testing Guide

I grew up in the waterfall era, where testing was seen as a separate activity to programming, done by a different group of people, and carried out after programming was done. The shift towards iterative and agile approaches, particularly the influence of Extreme Programming, has changed the role of testing - raising its importance, and integrating it with the core development work.

At the core of my philosophy to testing is that we want to write self-testing code, meaning we have a suite of automated tests that be easily run against the code base. We should be confident that this suite will catch almost all bugs in the software, so that when this suite "goes green" (passes), we can release that version of the software into production. This kind of environment can both drastically improve the robustness of our software, but also enables us to use refactoring to improve our productivity and responsiveness in the coming months.

A guide to material on martinfowler.com about testing software systems.

Martin Fowler

2 Dec 2019

```
describe("export", () \Rightarrow {
  beforeEach(async () \Rightarrow {
    await render(<ExcalidrawApp />);
  });
  it("export embedded png and reimport", async () \Rightarrow {
    const pngBlob = await API.loadFile("./fixtures/smiley.png");
    const pngBlobEmbedded = await encodePngMetadata({
      blob: pngBlob,
      metadata: serializeAsJSON(testElements, h.state),
    });
    API.drop(pngBlobEmbedded);
    await waitFor(() \Rightarrow {
      expect(h.elements).toEqual([
        expect.objectContaining({ type: "text", text: "@" }),
      1);
    });
  });
```

And hey, if tests are missing, this is a great chance to suggest them!

Diving into a complex codebase

- Getting the code up and running!
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- Checking out the test suite
- Looking stuff up

Plugging in that error message



varn error 137

La privacidad, simplificada, ~



Q Todo ☑ Imágenes ☑ Vídeos ভ Noticias ② Mapas

Ajustes ▼

Búsqueda segura: moderado 🔻

En cualquier momento *

https://jcutrer.com > javascript > yarn-build-exit-code-137

yarn build error "Command failed with exit code 137 ...

Name *. Email *. Website. Save my name, email, and website in this browser for the next time I comment.

https://github.com > benweet > stackedit > issues > 1177

error Command failed with exit code 137 · Issue #1177 ...

With yarn instead of npm at 512 megs both servers started but if I navigated within the vue-ui gui site the dev server would crash. At 1GB I would see errors mentioning memory in the terminal of the dev server but it wouldn't crash. It seems that 2gb is enough for me but I think the switch from npm to varn might have something to do with it.

o https://support.infoworks.io > support > solutions > articles > 14000128220-pipeline-build-...

Pipeline build job fails with Exit code 137 in Yarn logs ...

Exit code is 137. Container exited with a non-zero exit code 137. Root cause: This is an issue from the EMR side and this could happen if the spark.driver.memory or the spark.executor.memory values are very less. When a container (Spark executor) runs out of memory, YARN automatically kills it.

https://www.xspdf.com > resolution > 53994529.html

Yarn error command failed with exit code 137 - xspdf.com

The problem is that every time I build the project, I get the following error: ERROR: Maven JVM terminated unexpectedly with exit code 137. Exit code 137 openshift. Chapter 41. Application memory sizing OpenShift Container, Last State Terminated at Jan 7, 2018 5:00:15 PM with exit code 137 (Frror) your nod has been killed with signal 9 If

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My Account

I accidentally created two accounts; how do I merge them?

How do I add or remove login credentials from my account?

I lost my password; how do I reset it?

How do I delete my account?

What is the license for the content I post?

How do I report a possible security vulnerability?

Why has my post been blocked due to 'spam and abuse from my network'?

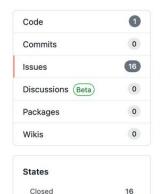
Digging into the Github repo for packages

Sort: Best match ▼

compileDebugJavaWithJavac

Pull requests Issues Marketplace Explore





Advanced search Cheat sheet



or view all results on GitHub

Android react-native-push-notification:compileDebugJavaWithJavac FAILED (#1985)

tanodev85 opened on 12 May 4 comments

unable to run app Task :react-native-push-notification:compileDebugJavaWithJavac FAILED (#1988)

Task :react-native-push-notification:compileDebugJavaWithJavac FAILED error raaidkh-tsa opened on 12 May 1 comment

Task :react-native-push-notification:compileDebugJavaWithJavac FAILED all of a sudden (#1979)

Helen2hang opened on 12 May 74 comments

✓ Local Notifications only not compiling on Android (#1980)

... -native: Not Found react-native info output: > Task :react-native-pushnotification:compileDebugJavaWithJavac FAILED Deprecated Gradle features were used in this build, making it incompatible with ...

KjellConnelly opened on 12 May 8 comments

© Error for Android Task :react-native-push-notification:compileDebugJavaWithJavac FAILED (#1578)

Getting a build error with android only with version 5.0.0. This works fine on version 4.0.0. Task :reactnative-push-notification:compileDebugJavaWithJavac FAILED react-native info output: System ... itstodola opened on 3 Aug 2020 7 comments

Diving into a complex codebase

- Getting the code up and running!
- Going through the dependencies
- Piecemeal refactoring
- Checking out the test suite
- Looking stuff up
- Asking for help

Diving into a complex codebase

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- Looking stuff up
- Asking for help effectively

How long should I wait before asking for help?

Asking narrow, pointed questions

Share what I've tried

Reproducing the problem

Requesting a pairing session

Requesting an ensemble session

Diving into a complex codebase

- Getting the code up and running!
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- Looking stuff up
- Asking for help effectively
- Improving overall onboarding





So that's some of the things I've learned! How about you?

- Getting the code up and running!
- Going through the dependencies
- Piecemeal refactoring
- Checking out the test suite
- Looking stuff up
- Asking for help effectively
- Improving overall onboarding

We've all been there.



Resources

- https://stackoverflow.com/help/licensing
- https://github.com/excalidraw/excalidraw
- https://firefox-dev.tools/
- https://code.visualstudio.com/docs/editor/debugging
- https://martinfowler.com/testing/

Thanks a lot!

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phola_soy_milk_