Always Ready To Code

Getting productive with

Ephemeral Developer Environments

Sven Efftinge - Co-Founder of Gitpod

It is 2022 and developers still

- **Manually manage** their dev environments on local machines and

- **Wait for builds and tests to complete** before coding.

Git Checkout

Editor / IDE

Run Build

Check Configuration

Install Tools and Requirements

Download Libraries

Start Coding
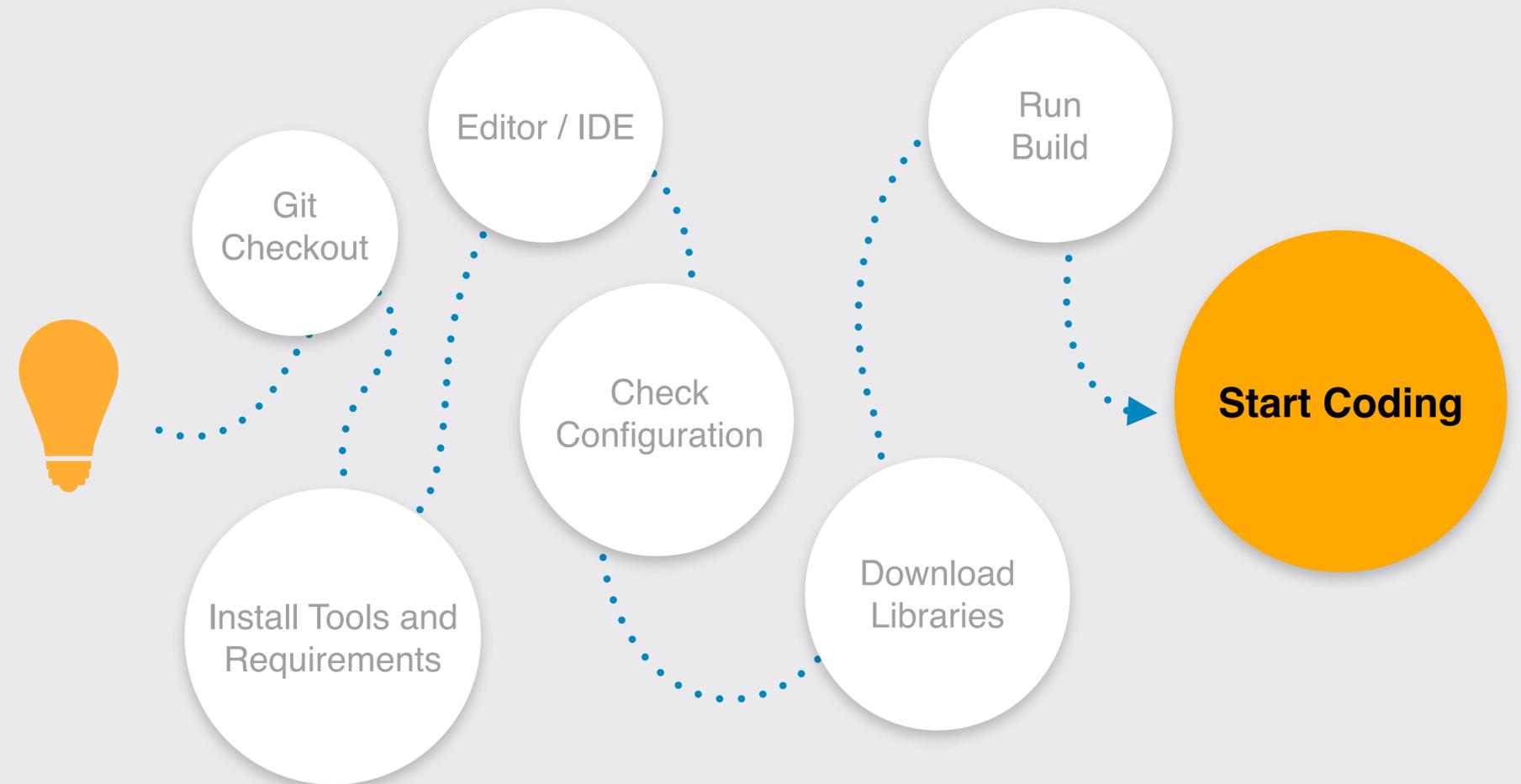
Every week …

> "Software engineers spend

> **3.7 hours waiting for tests** […],

> **3.5 hours waiting for builds** […],

> and **2.7 hours on dev environment** management.[1]"

[1] https://www.infoworld.com/article/2613762/software-engineers-spend-lots-of-time-not-building-software.html
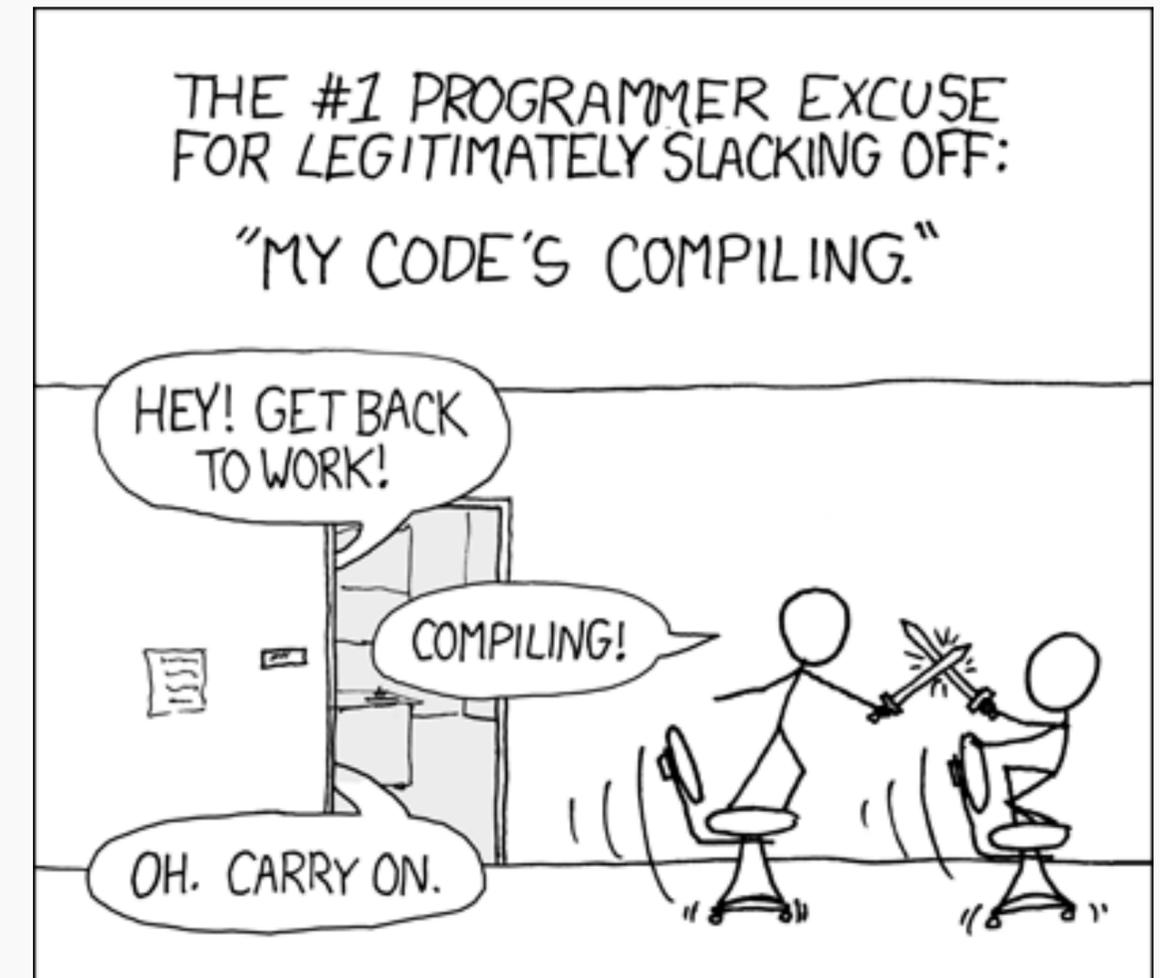
- **Describe** dev environments as code.

- Continuously prepare **ephemeral dev environments** for every branch.

Think CI/CD applied to dev environments.

Start coding

⚙ **Automated**

Git Checkout

Wait for Tests

Download Libraries

Setup Local Dev Environment

Wait for Builds

Install Tools

Compile Project

Update Dependencies

Demo Time

Automated Dev Environments

`</>` Dev Environment As Code

Versioned

Reproducible (No more "works on my machine")

Ephemeral Dev Environments

✨ Always Start Fresh

⚙️ Continuously Applied Automation

🔀 Work in Parallel
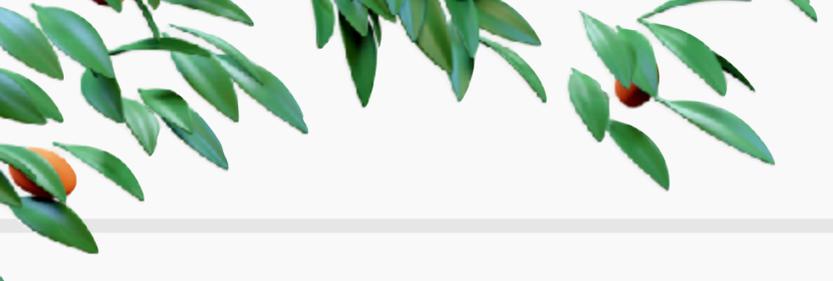
Prebuilt Dev Environments

Other Services

Build   >15 min

Gitpod

Prebuild   < 1 min

Previous Commit   Open Dev Environment

exit
🎉 This task ran as a workspace prebuild.
👍 Well done saving 3 mins

Gitpod /Workspace/ $
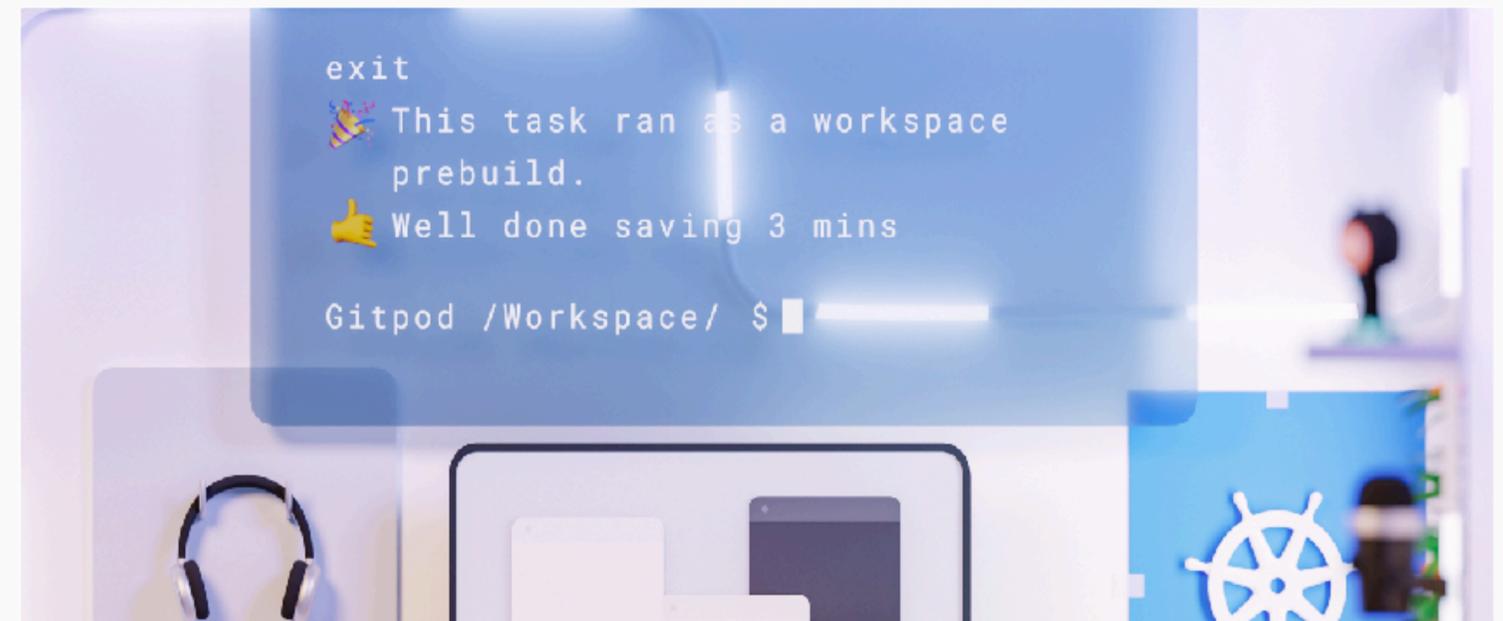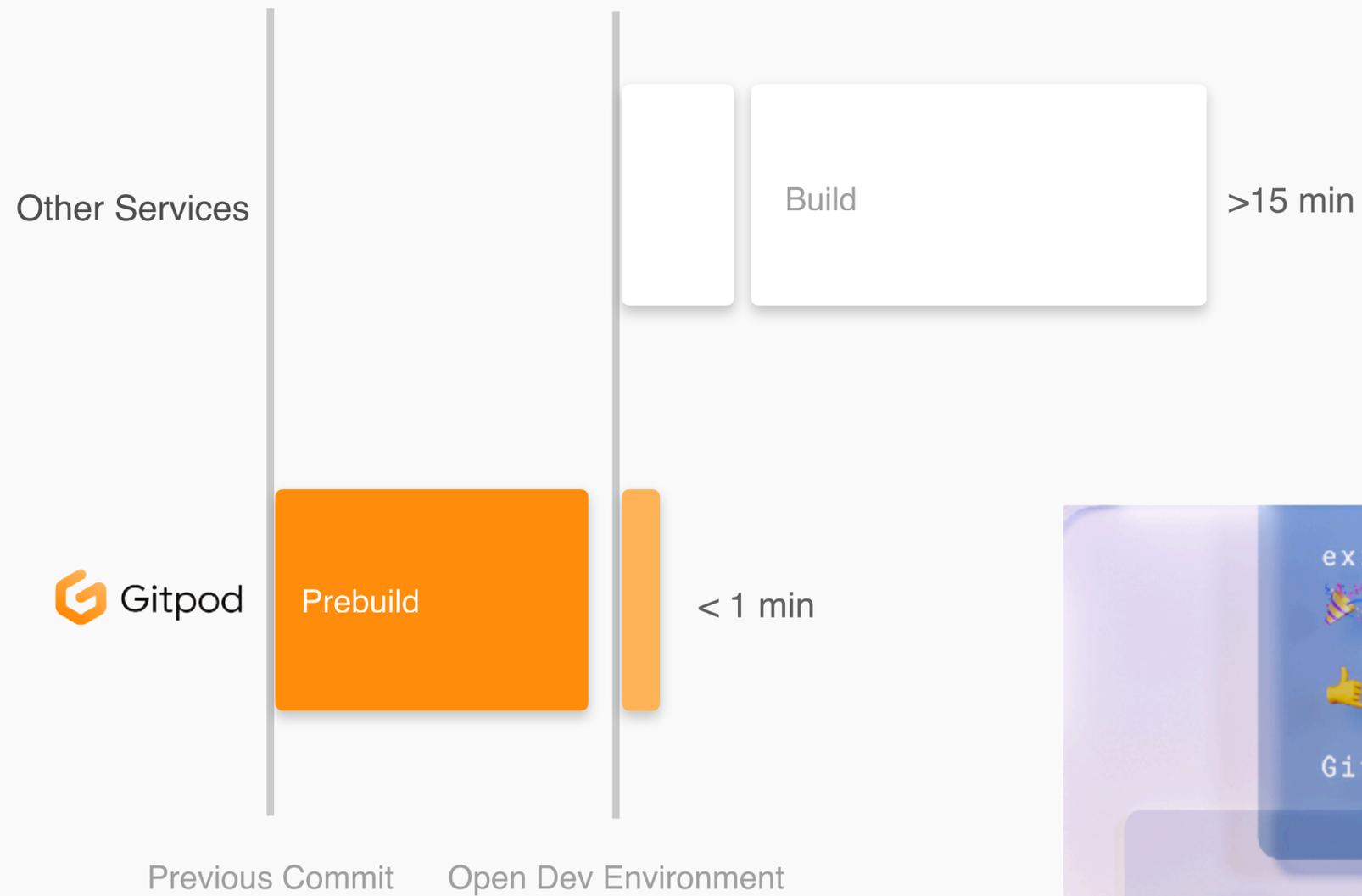
Secure Dev Environments

🛡️ Centralized Data Storage

🔐 Access Audits

🔀 SSH connections

Contextual Dev Environments

- 🕐 Bug Fix
- ⑂ Code Review
- … File, Branch, Commit, etc.

Accessible Dev Environments

Code from any device.
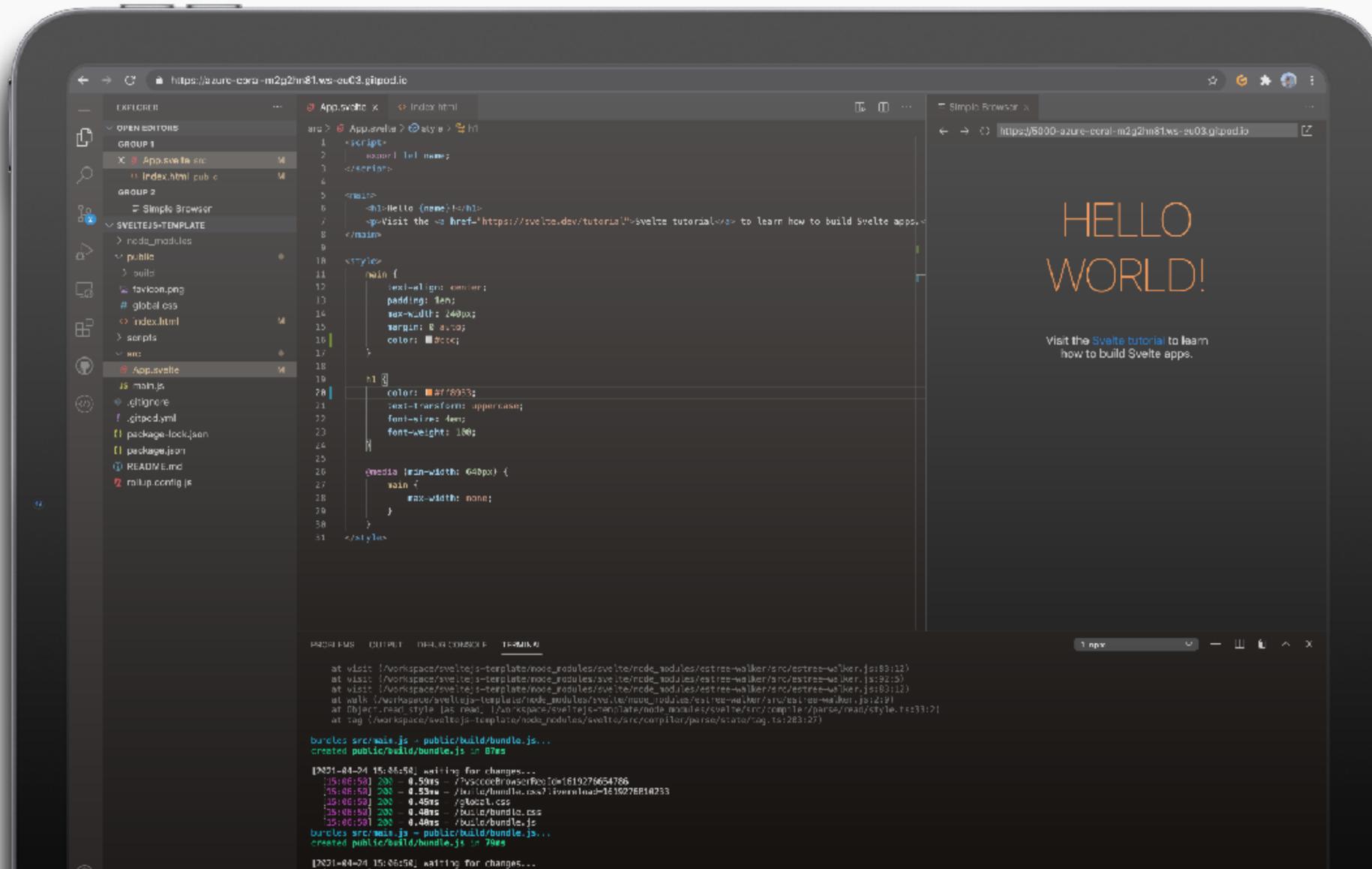
# **Collaborative** Dev Environments

Live Share Workspaces

Asynchronous Snapshots
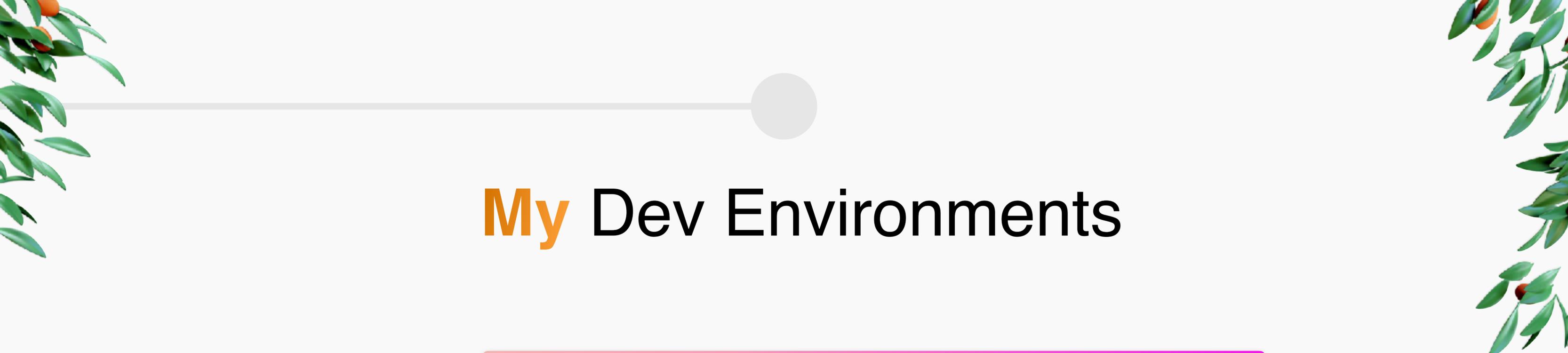
My Dev Environments

My Extensions

My Themes

User Configuration

My Configuration

Project Configuration

Project A

Project B

Project C

Are You
Ready to Code?

Learn more at

 gitpod.io

 github.com/gitpod-io/gitpod

 community.gitpod.io

 @gitpod