

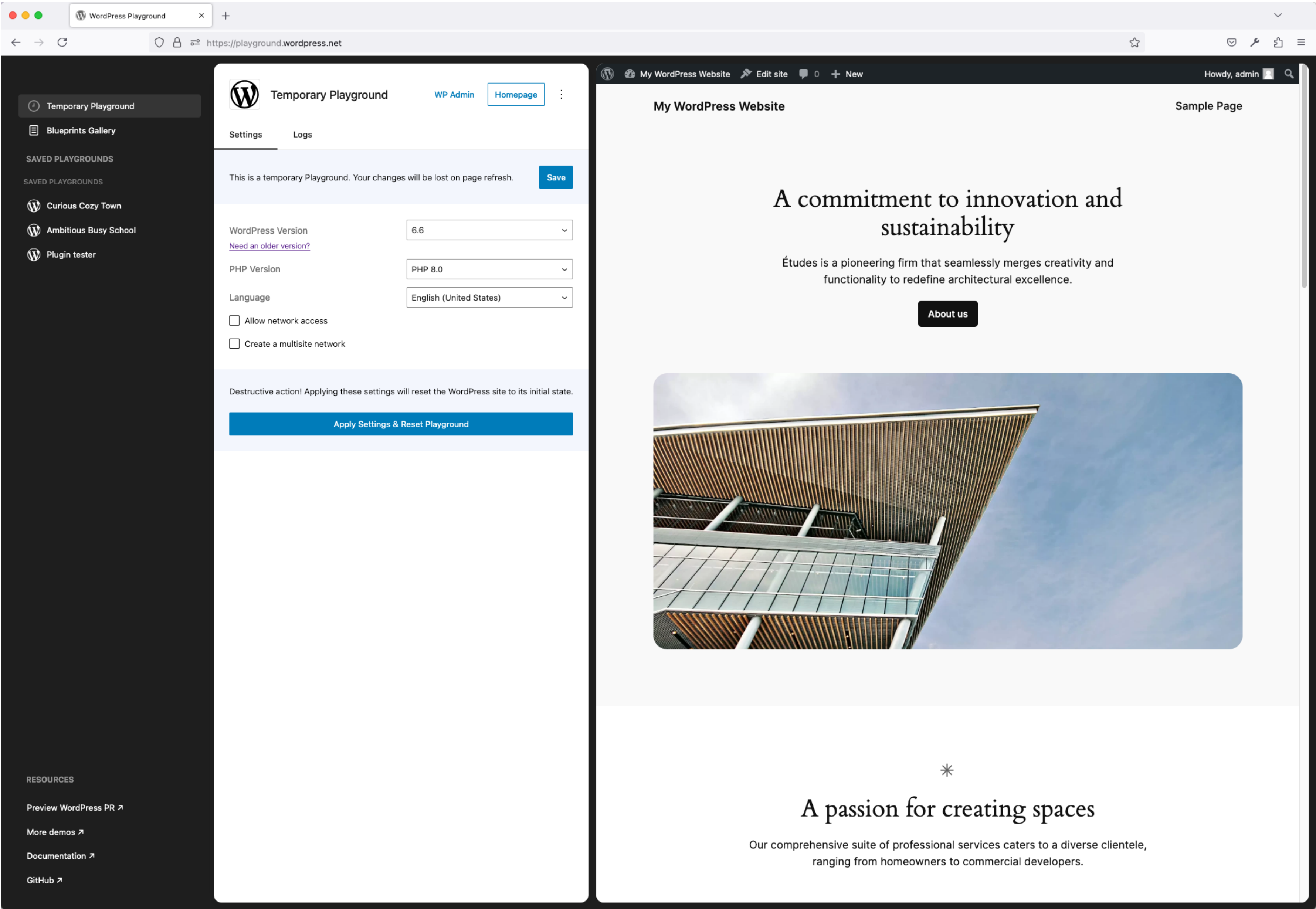
**Let's build a LAMP stack in the
browser and run WordPress
without a server**

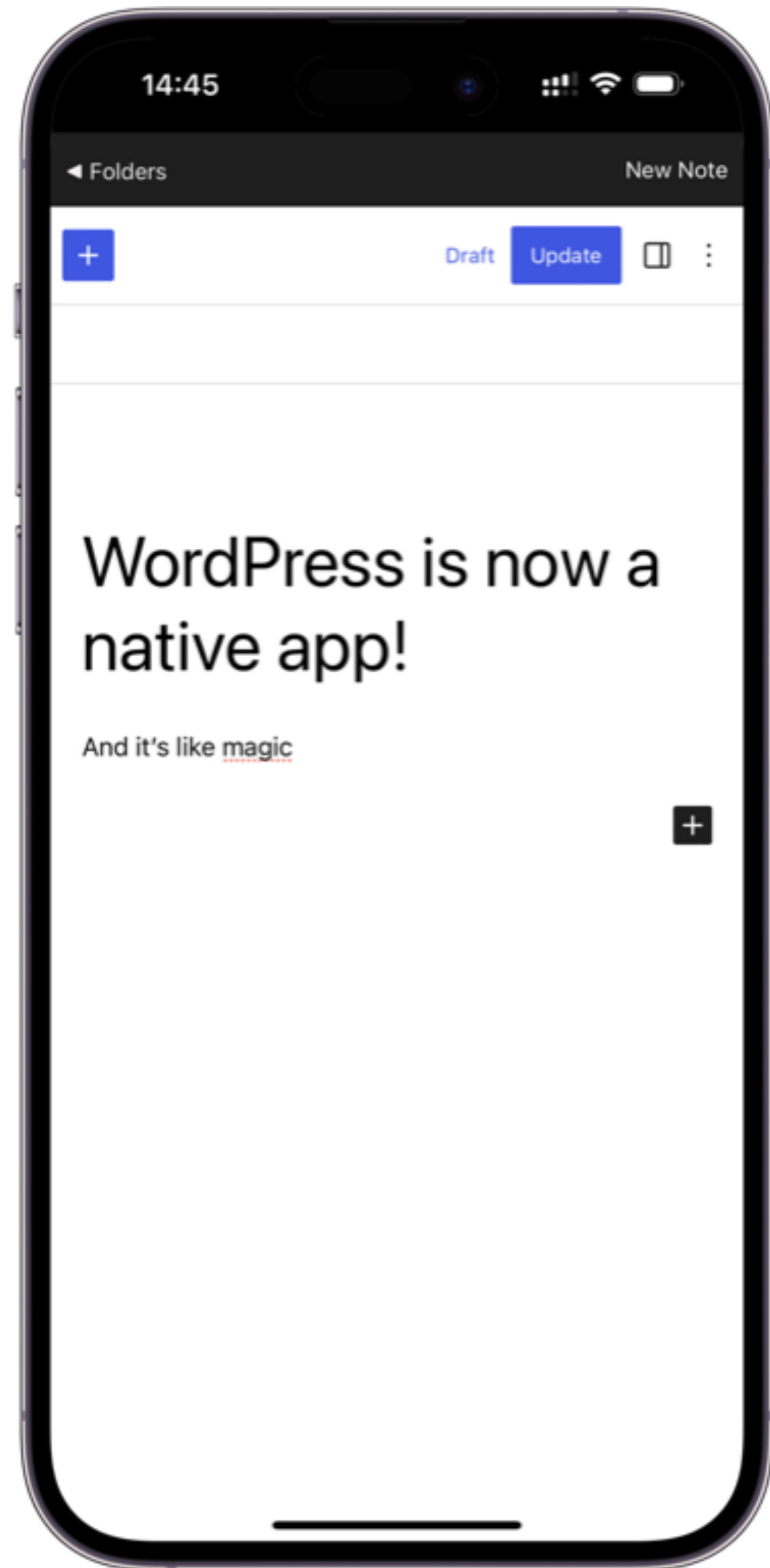
Berislav Grgičak

**Who wants to be a WordPress
developer?**

WordPress Playground

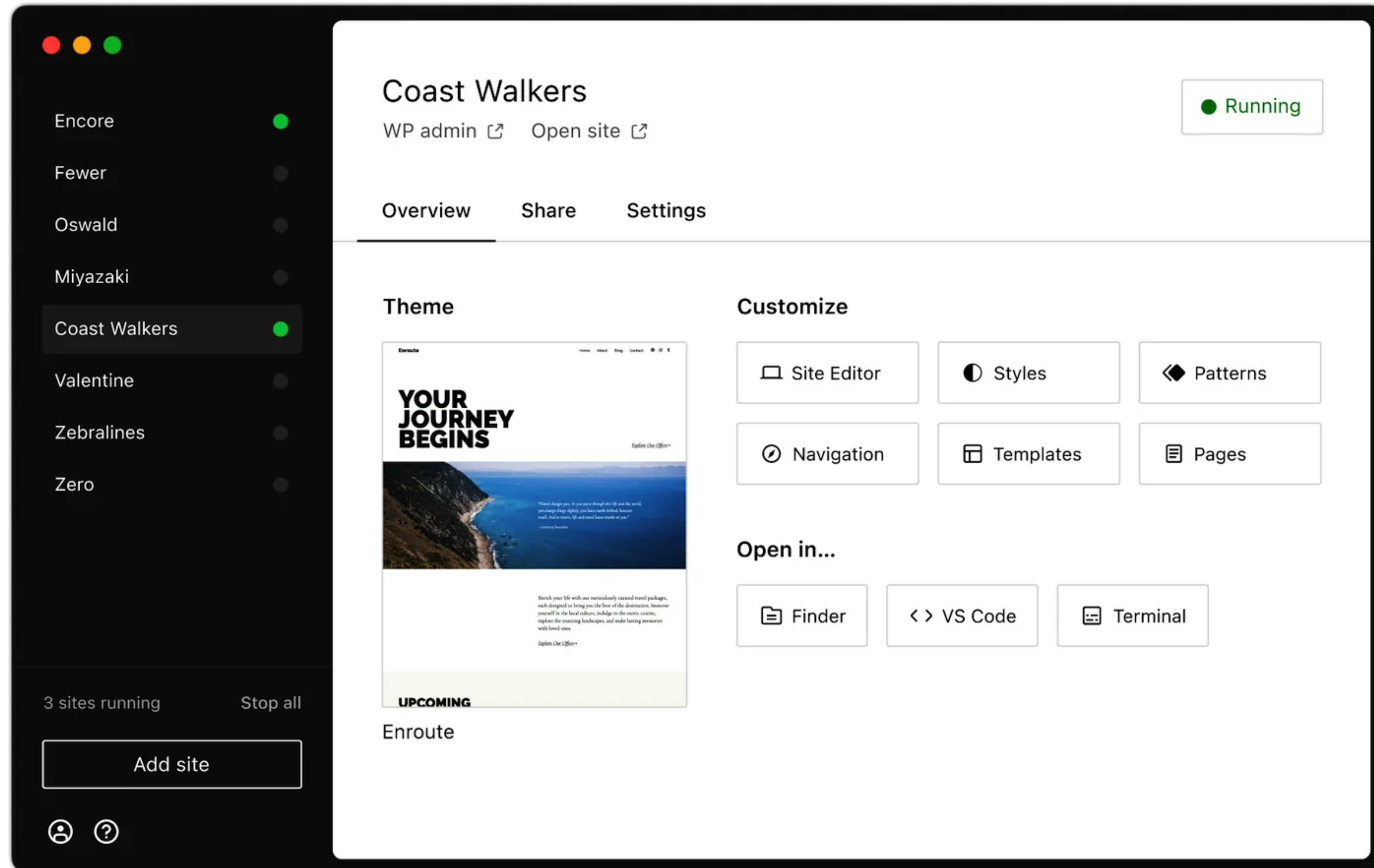
Web apps





Mobile apps

Desktop apps




```
mux ls && read tmux_session && tmux attach -t ${tmux_session:-default} || tmux

→ ~ playground server
Starting a PHP server...
Setting up WordPress latest
Running the Blueprint...
Running the Blueprint – 100%

Finished running the blueprint
WordPress is running on http://127.0.0.1:9400
█
[default] <zsh 5:zsh 6:zsh 7:bun*"Mac.local" 22:02 23-Oct-24
```

CLI tools



Playground.WordPress.net

Dashboard

Screen Options Help

Dismiss

Welcome to WordPress!

[Learn more about the 6.6.2 version.](#)

 Author rich content with blocks and patterns

Block patterns are pre-configured block layouts. Use them to get inspired or create new pages in a flash.

[Add a new page](#)

 Customize your entire site with block themes

Design everything on your site — from the header down to the footer, all using blocks and patterns.

[Open site editor](#)

 Switch up your site's look & feel with Styles

Tweak your site, or give it a whole new look! Get creative — how about a new color palette or font?

[Edit styles](#)

Site Health Status

No information yet...
Site health checks will automatically run periodically to gather information about your site. You can also [visit the Site Health screen](#) to gather information about your site now.

At a Glance

 1 Post

 1 Page

 1 Comment

WordPress 6.6.2 running [Twenty Twenty-Four](#) theme.

Activity

Recently Published

Today, 12:34 pm [Hello world!](#)

Recent Comments

 From [A WordPress Commenter](#) on [Hello world!](#)
Hi, this is a comment. To get started with moderating, editing, and deleting comments, please visit the

Quick Draft

Title

Content

What's on your mind?

Save Draft

WordPress Events and News

Enter your closest city to find nearby events. [Select location](#)

City: [Submit](#) [Cancel](#)

RSS Error: WP HTTP Error: Missing header/body separator

RSS Error: WP HTTP Error: A valid URL was not provided.

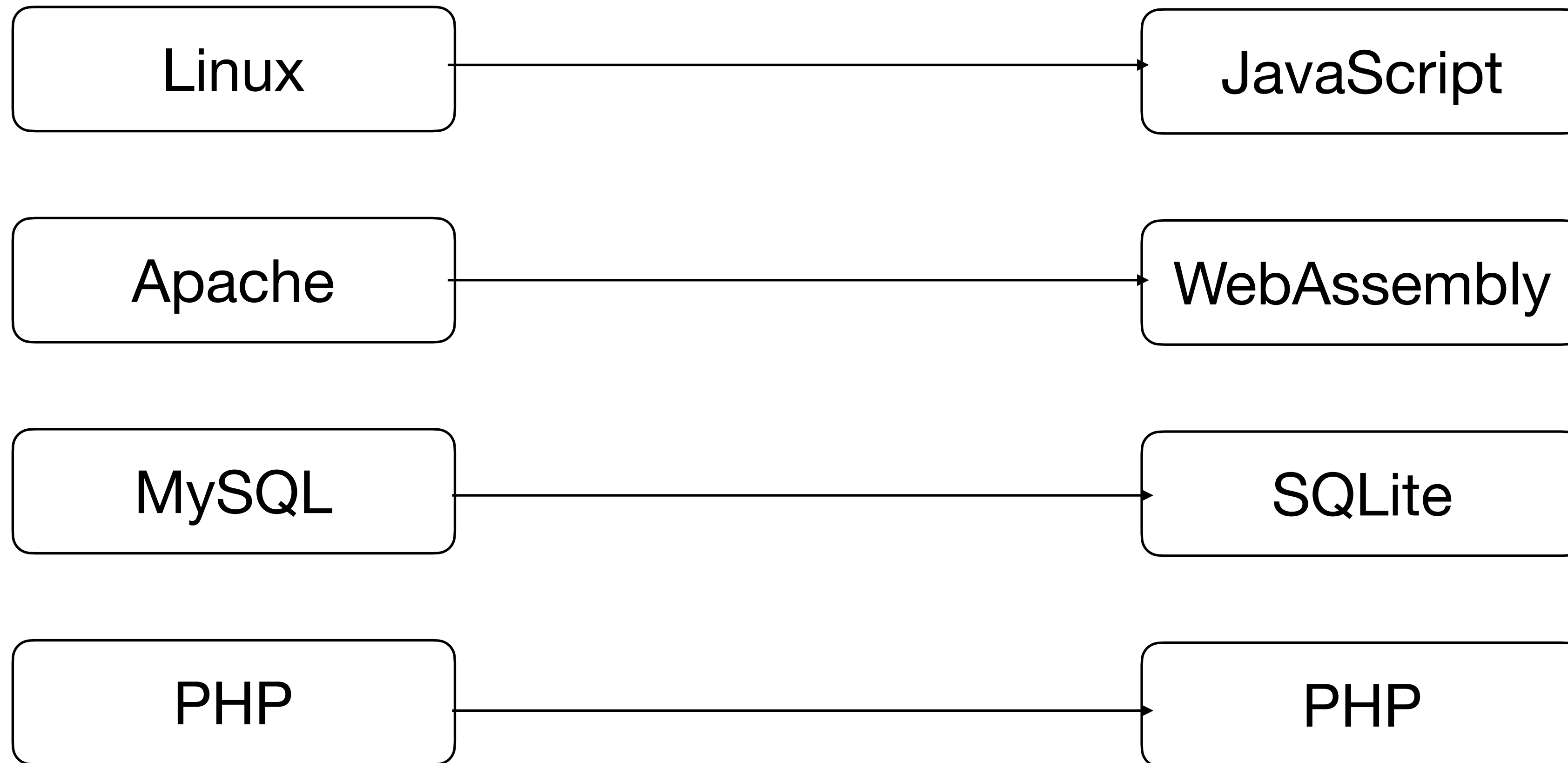
[Meetups](#) | [WordCamps](#) | [News](#)

Drag boxes here

Drag boxes here

How does Playground work?

LAMP vs Playground




```
<iframe src="https://playground.wordpress.net/"></iframe>
```

```
<iframe id="wp"></iframe>
<script type="module">
  import {
    startPlaygroundWeb
  } from 'https://playground.wordpress.net/client/index.js';
  const client = await startPlaygroundWeb({
    iframe: document.getElementById('wp'),
    remoteUrl: `https://playground.wordpress.net/remote.html`,
  });
</script>
```

Playground boot

Service Worker

- Register Service Worker
 - Intercept fetch events
 - Cache assets
 - Serve cache while offline

Playground boot

Web Worker

- Start Web Worker
 - Executes heavy tasks
 - Starts a PHP runtime
 - Loads a request handler
 - Boots WordPress

Playground boot

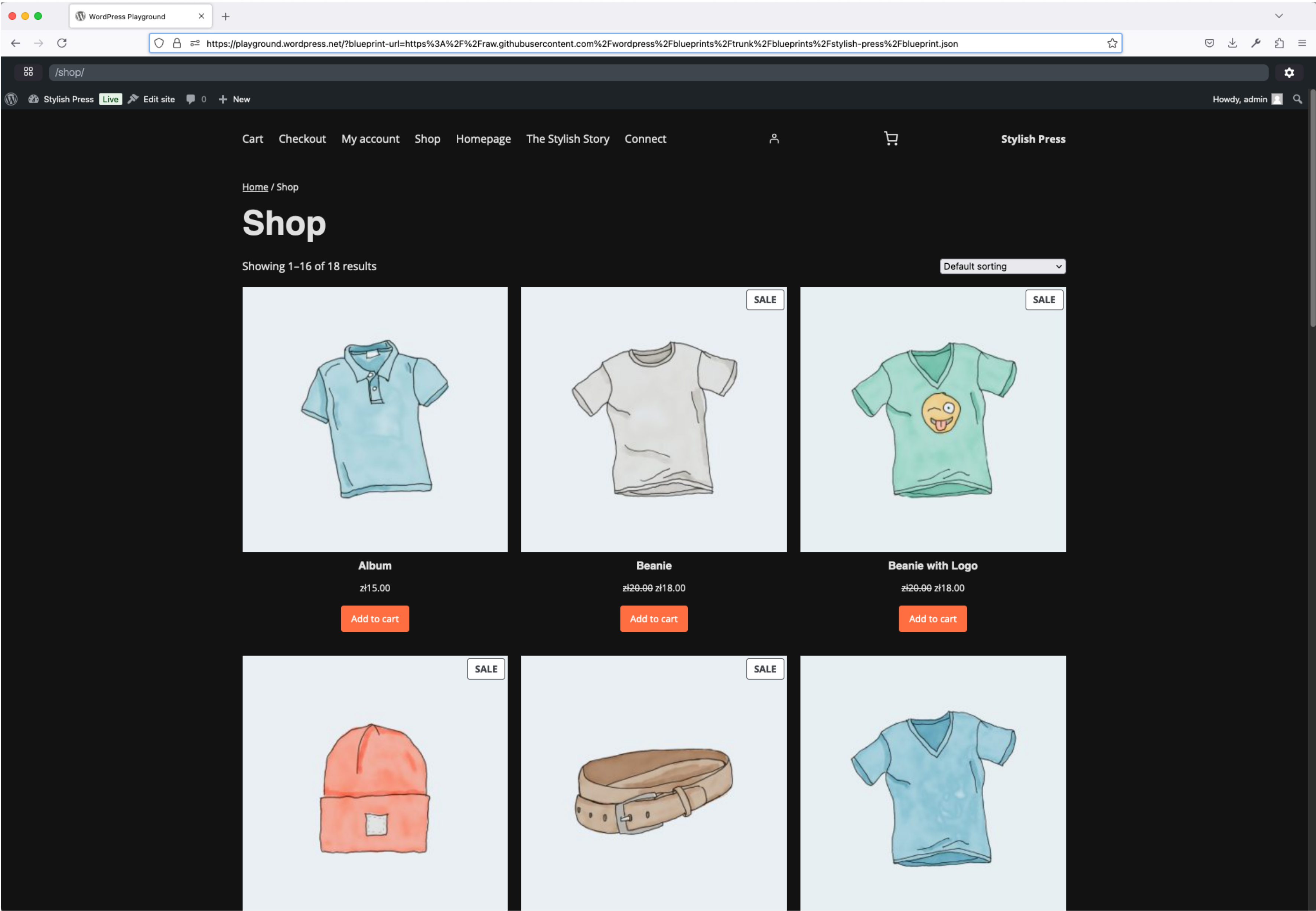
Boot WordPress

- Download WordPress
- Setup environment
- Install WordPress
- Run Blueprint

Blueprints

```
{
  "$schema": "https://playground.wordpress.net/blueprint-schema.json",
  "login": true,
  "siteOptions": {
    "blogname": "My first Blueprint"
  },
  "steps": [
    {
      "step": "installTheme",
      "themeData": {
        "resource": "wordpress.org/themes",
        "slug": "adventurer"
      }
    },
    {
      "step": "installPlugin",
      "pluginData": {
        "resource": "wordpress.org/plugins",
        "slug": "hello-dolly"
      }
    },
    {
      "step": "mkdir",
      "path": "/wordpress/wp-content/plugins/hello-from-the-dashboard"
    },
    {
      "step": "writeFile",
      "path": "/wordpress/wp-content/plugins/hello-from-the-dashboard/plugin.php",
      "data": "<?php\n/*\nPlugin Name: \"Hello\" on the Dashboard\nDescription: A custom plugin"
    },
    {
      "step": "activatePlugin",
      "pluginPath": "hello-from-the-dashboard/plugin.php"
    }
  ]
}
```

Demos



update: column widths on poster

https://github.com/WordPress/twentytwentyfive/pull/611

Merged by juanfra WordPress:trunk ← troychaplin:update/column-widths-poster-pattern yesterday

Conversation 8

Commits 1

Checks 6

Files changed 1

Troy Chaplin 2 days ago

Member

Description

This PR addresses #606 by changing the column widths to 80 and 20 in both instances of the block to allow for the larger font size in the example to properly fit at larger widths

Screenshots

TTS Test Site

(no title) (no title) Blog Front Page Portfolio Test Previous Pattern Test Testing Updated Pattern

Test

“Stories, historias, ictopii, ictopísc”

Mon Jan 1

Testing Instructions

1. Create new page

2. Add "Poster-like" pattern

3. Save and view front end at more than 1900px wide (I tested at 2056)

update: column widths on poster-like patter

b6f4ee2

github-actions bot commented 2 days ago

Preview changes

You can preview these changes by following the link below:

Preview changes for twentytwentyfive

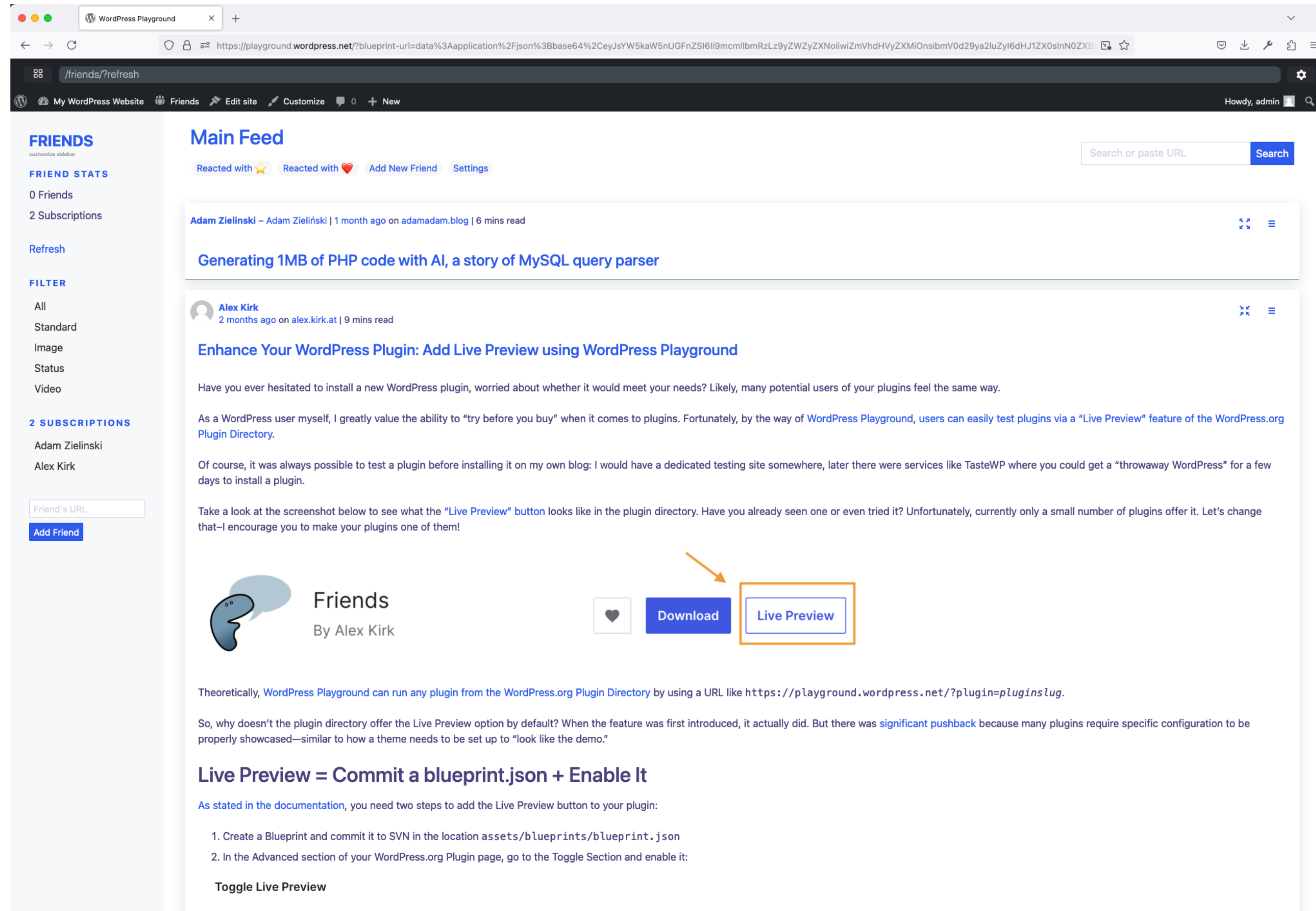
I will update this comment with the latest preview links as you push more changes to this PR.

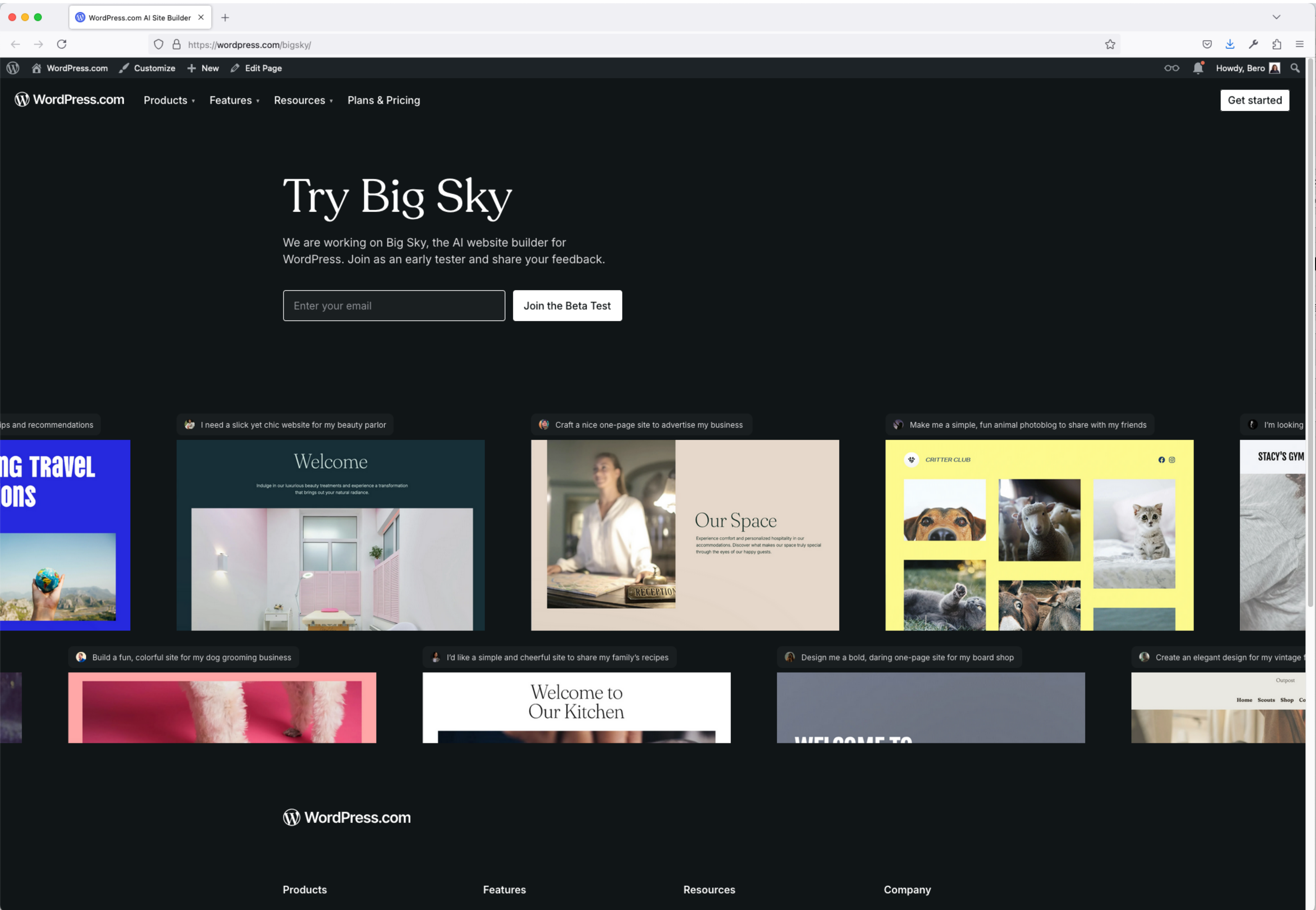
Note

The preview sites are created using WordPress Playground. You can add content, edit settings, and test the themes as you would on a real site, but please note that changes are not saved between sessions.

PR Previews

Social media feeds





AI

A WordPress page load

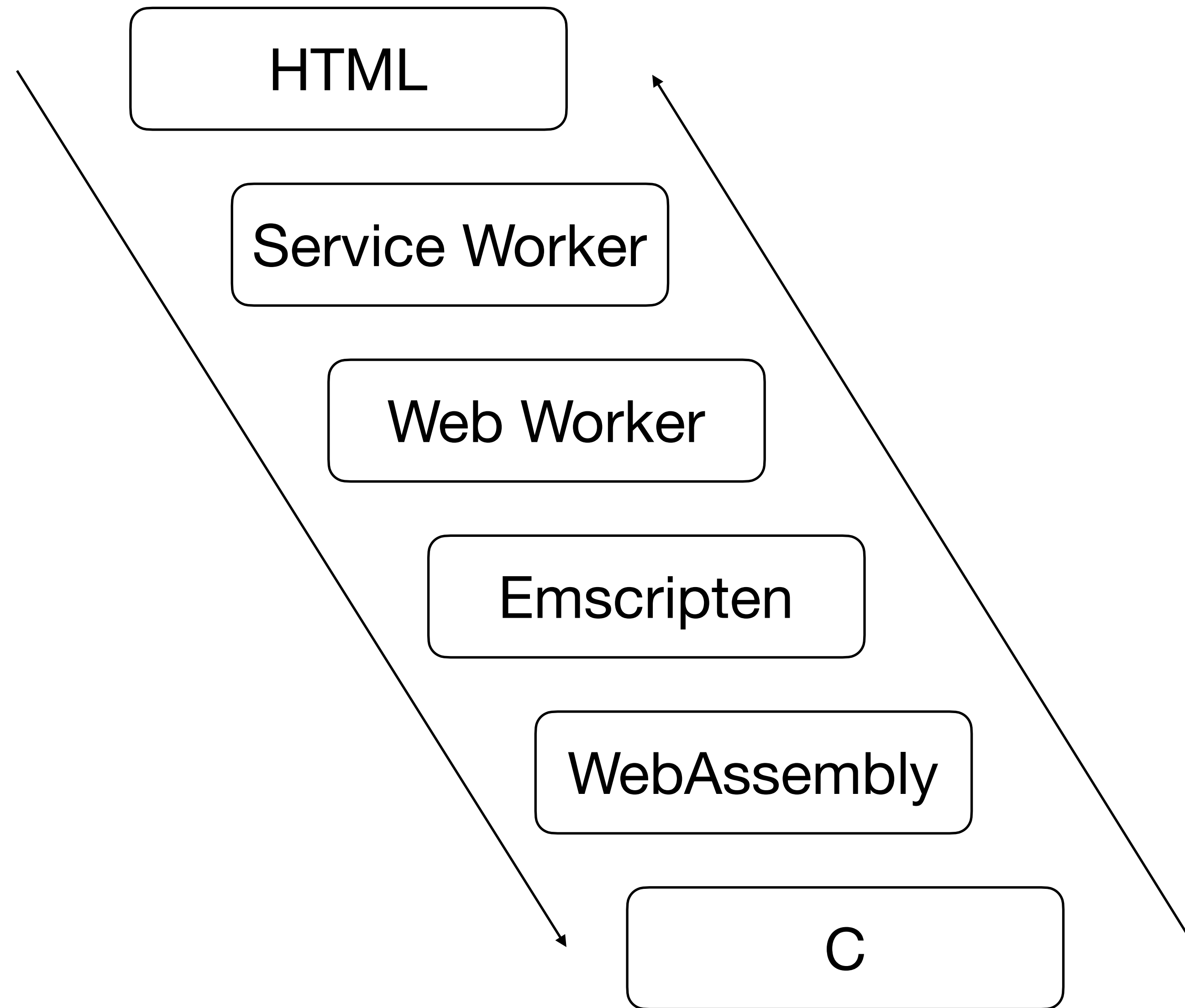
JavaScript

- `<iframe>` URL changes in the browser
 - **Service Worker** intercepts the request
 - **Web worker** processes the PHP request
 - The request is sent to **WebAssembly** by **Emscripten**

A WordPress page load

JavaScript > WASM

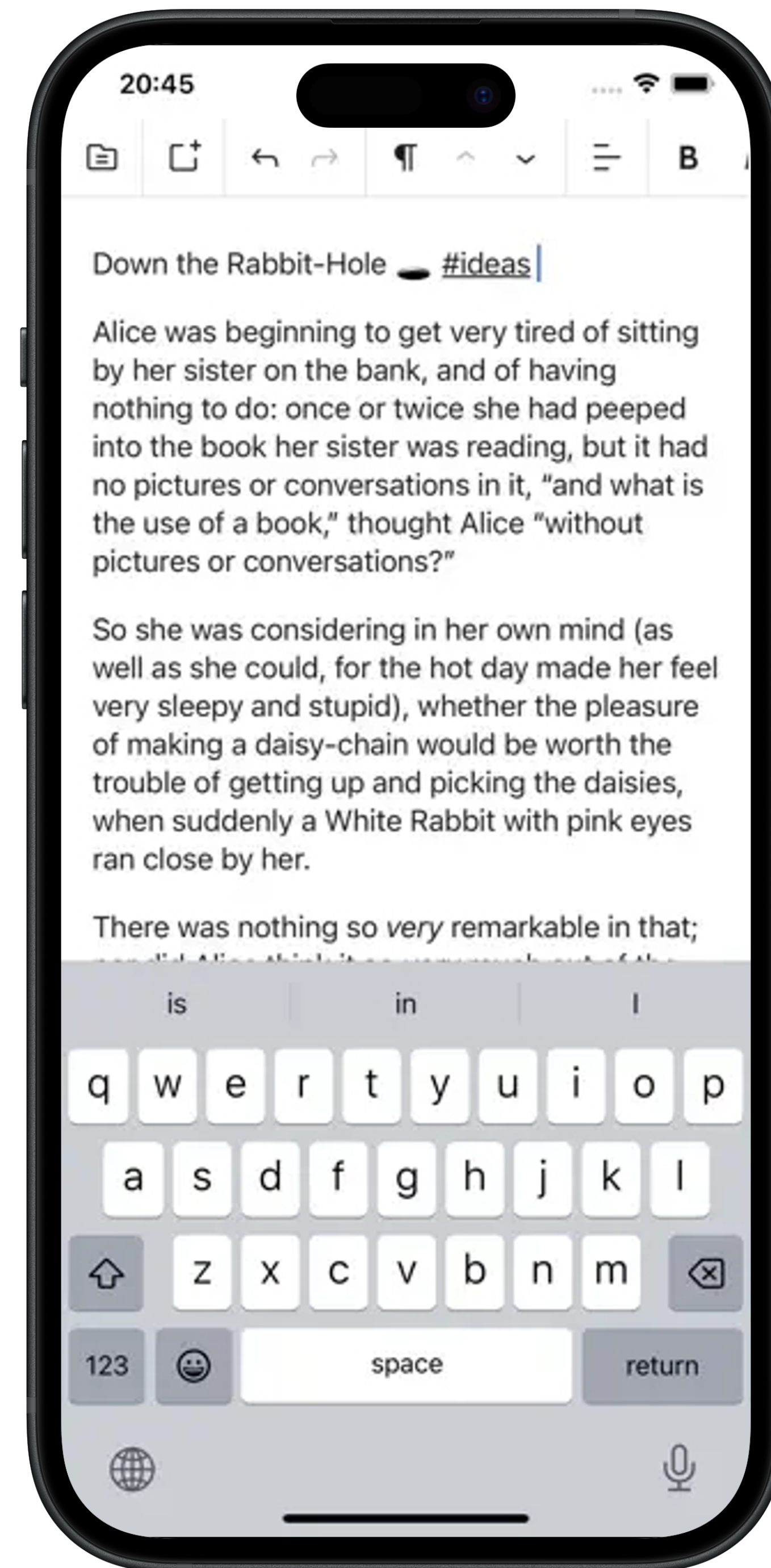
- **PHP.WASM** accepts the request
 - **Server API** is prepared
 - **PHP** script is is executed using **C**
 - SQL requests run on **SQLite**
 - **HTTP** requests are processed by **browser** using **fetch**
 - **Asyncify** and **JSPI** enable async function calls

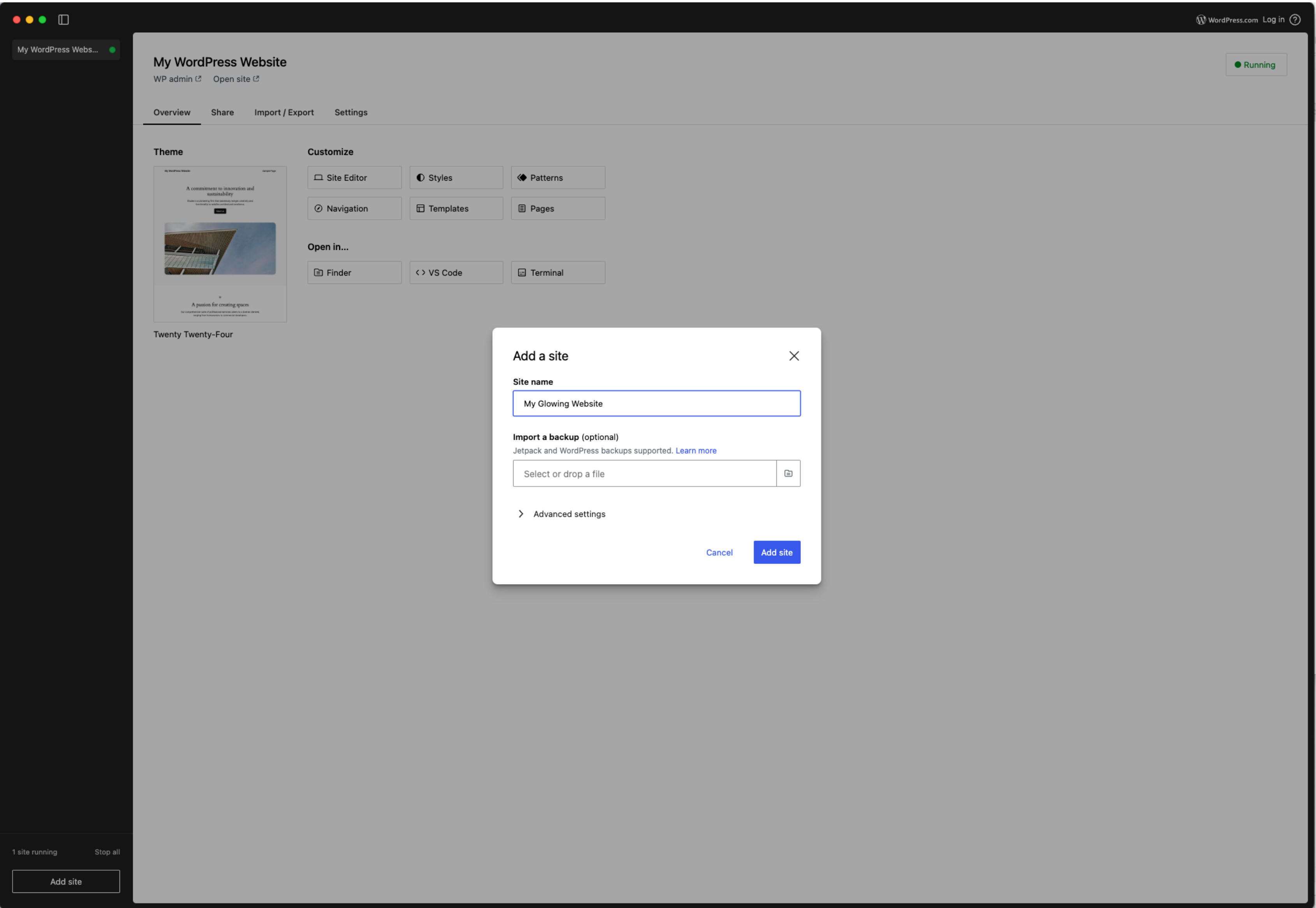


Playground is going to change everything

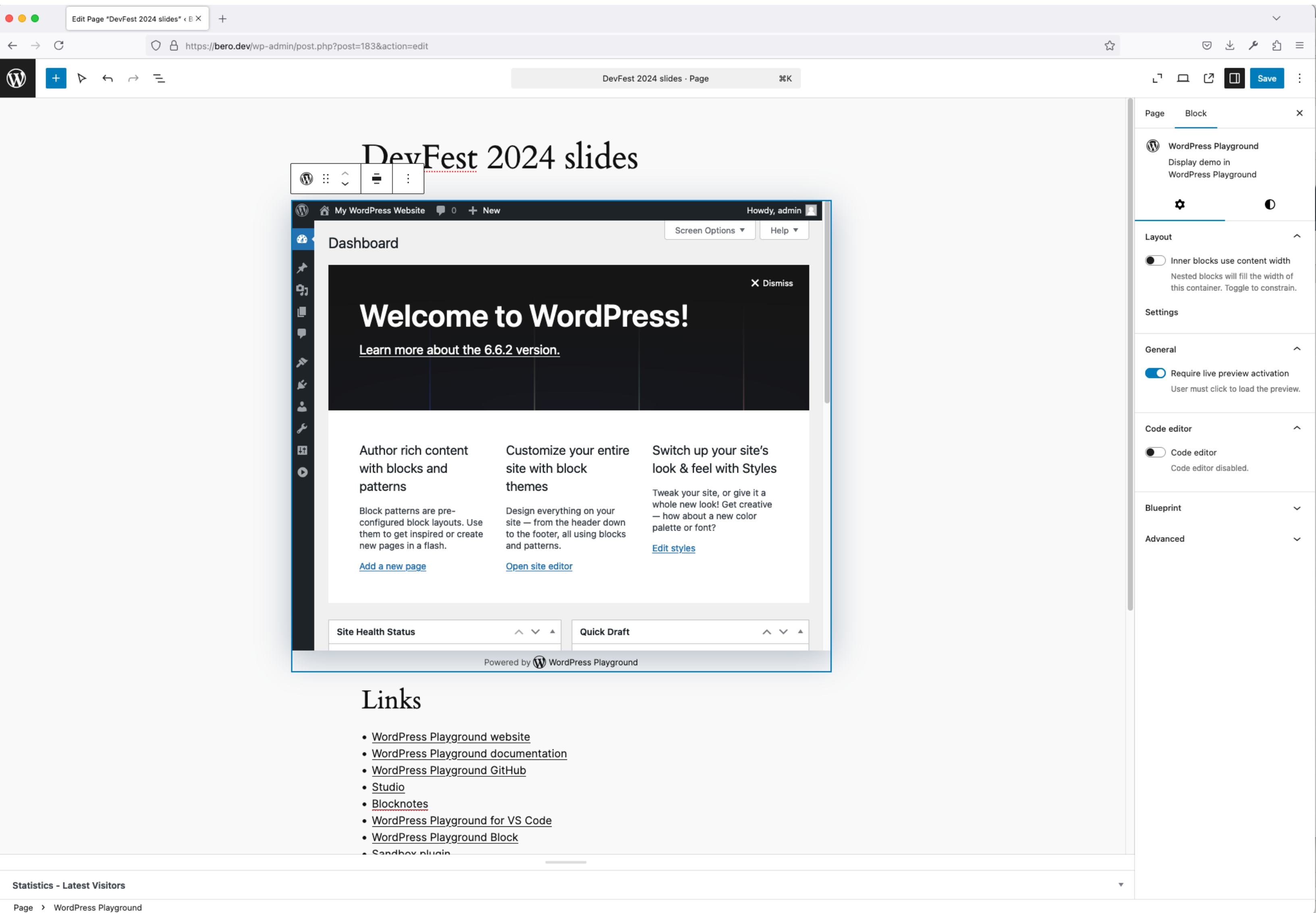
Matt Mullenweg

Blocknotes



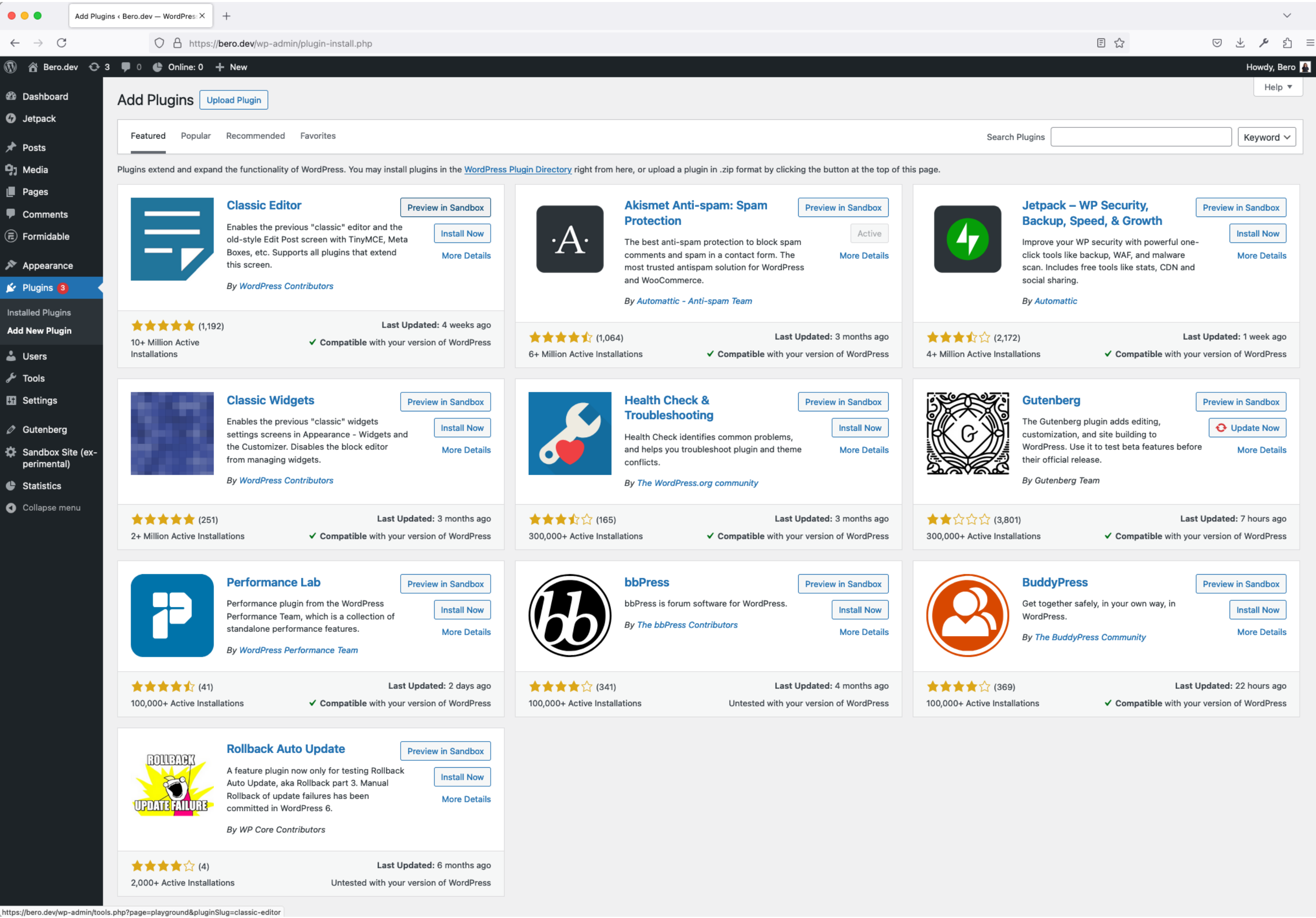


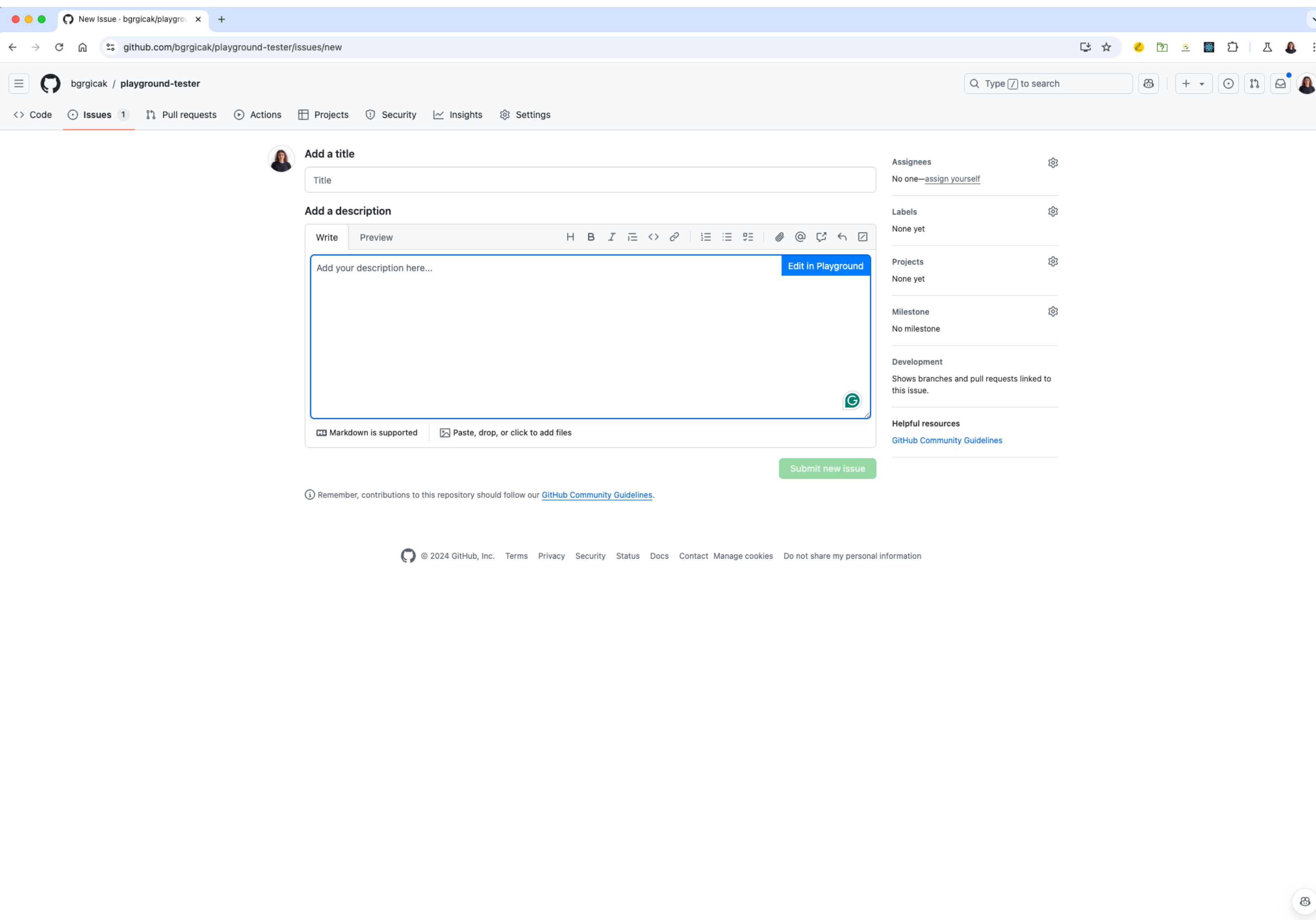
Studio



Playground
block

Sandbox plugin





Markdown editor

Doom



Whats next?

Thank you!

**Who wants to be a WordPress
developer?**



GitHub @bgrgicak