



DE{CODE} 20 23

THE VIRTUAL DEVELOPER CONFERENCE

How to build your first headless WordPress project with ACF + WPGraphQL

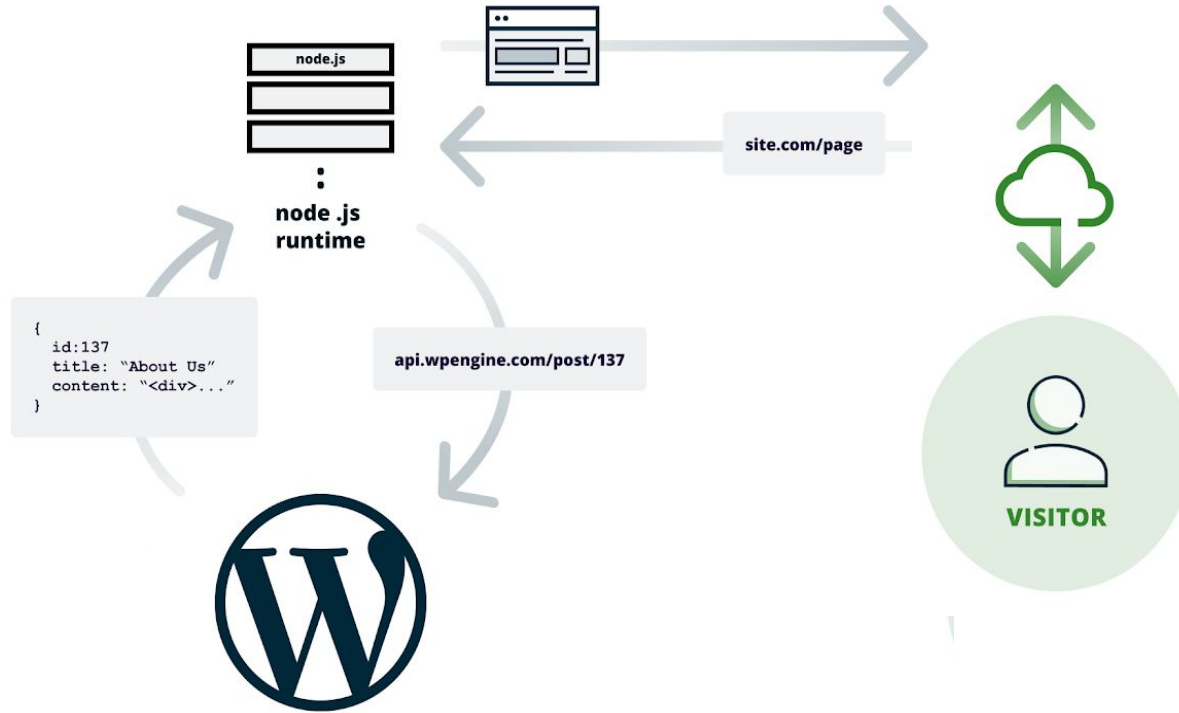


Jeff Everhart

Senior Developer Advocate

WP Engine

@J_Everhart383

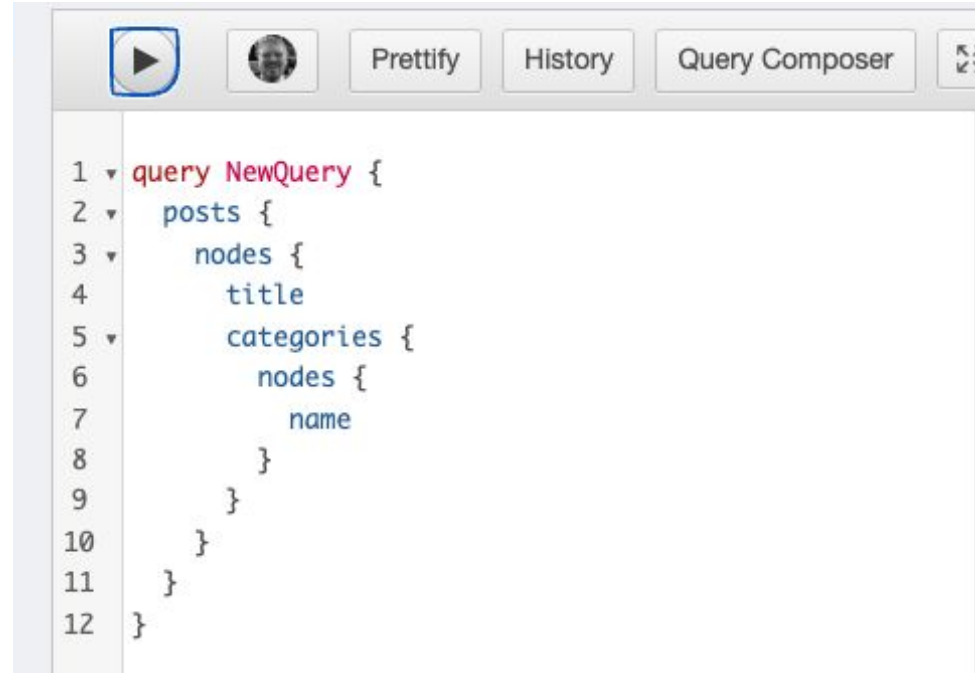


Our Tech Stack

WPGraphQL

API Layer

WPGraphQL turns your WordPress backend into a powerful GraphQL API that can be used by other clients or applications. It enforces all of the same role and capability security checks that the native REST API does, and it supports core WordPress data types out of the box.



```
1 query NewQuery {
2   posts {
3     nodes {
4       title
5       categories {
6         nodes {
7           name
8         }
9       }
10    }
11  }
12 }
```

WordPress Data as a Graph

WPGraphQL turns your WordPress database into a series of nodes and edges, which allows you to write declarative queries for all types of content

Our Tech Stack

Advanced Custom Fields & ACF for WPGraphQL Extension

Data Modeling

ACF provides developers with an easy way to model custom post meta data from intuitive interfaces directly in the block editor. ACF automatically exposes field data over the REST API, but we need an extension to expose the same fields over WPGraphQL.

Look out for an upcoming release of custom post type and taxonomy registration to the free version of ACF!

The screenshot shows the configuration interface for a new ACF field named 'Recipe Name'. The interface is divided into four tabs: 'General', 'Validation', 'Presentation', and 'Conditional Logic'. The 'General' tab is active. Under 'Field Type', a dropdown menu is set to 'Text'. Under 'Field Label', the text 'Recipe Name' is entered, with a note below stating 'This is the name which will appear on the EDIT page'. Under 'Field Name', the text 'recipe_name' is entered, with a note below stating 'Single word, no spaces. Underscores and dashes allowed'.

Unlock more field types with ACF Pro

- Repeater Field
- ACF Blocks
- Flexible Content Field
- Options Page
- Gallery Field
- Clone Field

Our Tech Stack

Faust.js

Frontend Framework

Faust is a JavaScript framework designed to make the development of headless WordPress sites as easy as possible for WordPress and JavaScript developers. The mission of Faust is to reduce the complexity of building headless WordPress frontends for the web, allowing developers to build production sites with the ease of a monolithic WordPress site.

```
export default function Page(props: any) {
  const {data} = useQuery(Page.query);
}

Page.query = gql`
  query SamplePage {
    page(id: "sample-page", idType: URI) {
      title
      content
    }
  }
`;
```

Faust.js brings WordPress features to headless:

- Post Previews
- Authentication
- Admin Bar
- Block Editor Support
- Template Hierarchy
- Plugin System

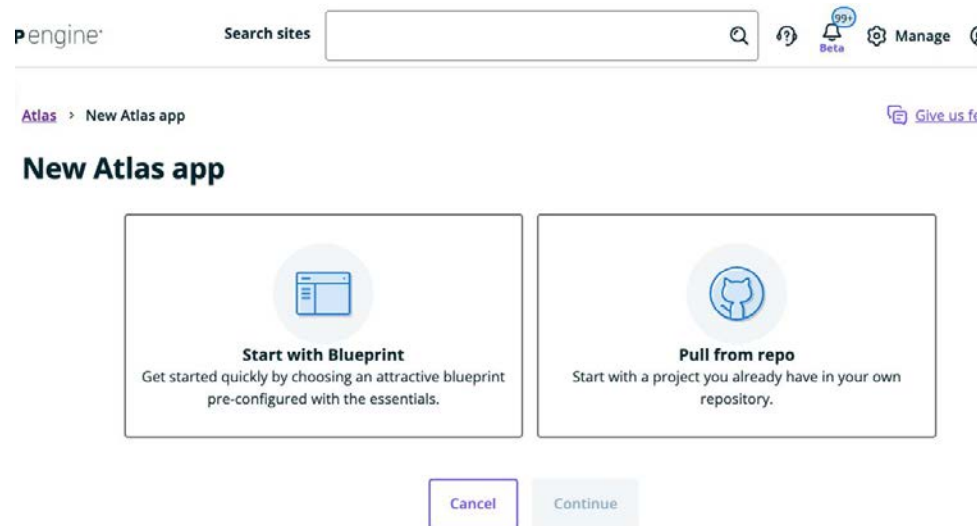
Our Tech Stack

Local & Atlas

Local Development Environment & Hosting

The Local development environment makes it easy to push/pull our WordPress site data to WP Engine hosting, while WP Migrate can help us move across other hosts using its .zip export/import functionality that is now Local compatible.

The Atlas platform is an all-in-one headless hosting solution that combines your WordPress backend with a Node.js container, all tuned to work together. You push your frontend code to your favorite git provider, and the platform builds and deploys your code automatically.



Modern JS hosting with the Atlas Platform

- Git-based CI/CD
- Webhooks
- PR Preview Environments
- Rollbacks
- Supports All Major Frameworks



Let's start building!

Open this URL in your browser:

<https://github.com/JEverhart383/first-headless-project-decode-2023>



Congrats! We made it.

Keep practicing after the presentation:

<https://github.com/JEverhart383/first-headless-project-decode-2023>

Your headless site, live in minutes. Get your Atlas sandbox account:

<https://wpengine.com/atlas>

Atlas Sandbox

Explore the full feature set of Atlas in a risk free, dev playground environment.

Free Trial

Start exploring Atlas today.

\$0 ^(USD)
/mo

Atlas Sandbox includes:

- ✓ Full feature access
- ✓ Paired Node & WP environments
- ✓ Developer tooling
- ✓ Starter site blueprints
- ✓ How-to guides
- ✓ Dev documentation

How it works:

[Complete the sign-up form](#) and our team will set you up.

Note: a credit card will be required for fraud mitigation purposes only. Your credit card will not be charged for the sandbox account.

TRY ATLAS FOR FREE

 **Learn more with our headless
developer roadmap:**

<https://developers.wpengine.com/roadmap>

 **Or join 1000+ other devs
learning headless in our Discord:**

<https://developers.wpengine.com/discord>

Thank you.

Jeff Everhart

Senior Developer Advocate

WP Engine

@J_Everhart383

jeff.everhart@wpengine.com



DE{CODE} 20 23

THE VIRTUAL DEVELOPER CONFERENCE