



SAMOA CODE HUB



DRUPAL WEBINAR

Level up your
web skills with
our hands-on
Drupal
workshop

DATE



MONDAY

20 MAY, 2024

12.00 PM - 1.30 PM

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Drupal Webinar

Introduction to Drupal | 20 May 2024

Ainsof So'o

Acquia Certified Drupal Site Builder
MInfoTech
BCompSys

Objectives

- Understand what Drupal is and why it exists
- Get Drupal running in your local environment or the cloud
- Learn how to leverage Drupal
- Create a Drupal community in Samoa

Tālofa! My story

- Been using Drupal for 8 years (since Drupal 7)
- Started by migrating a Joomla website to Drupal
 - Migrated Microsoft Access database to Drupal
 - Migrated from commercial software to Drupal
 - Migrated from DNN (.Net) to Drupal
- Attended Drupal conferences in Australia and NZ
- Current project uses Drupal as a backend for a Mobile App

What is Drupal

- It's a Content Management System (CMS)
- It's Open Source (LAMP stack)
- It's Community based
- Founded by Dries Buytaert in 2000

- Current version Drupal 10 (Drupal 11 end of the year)

Why Drupal

- Low/No code solution
- Highly scalable and performant
- Dedicated security team
- Community (online support, conferences)
- For the [ambitious site builder](#)

Developer	Ambitious Site Builder	Content Author / Site Builder
<p>Writes a lot of code</p> <p>Uses command line</p>	<p>Mostly through the UI</p> <p>Writes (some) custom code</p>	<p>Drags and drops</p> <p>Does not write code</p>
<p>Tool of choice: <i>Frameworks</i></p>	<p>Tool of choice: <i>Drupal</i></p>	<p>Tool of choice: <i>SaaS solutions</i></p>

A Closer Look at Features that Give Developers More Flexibility



Headless/Decoupled Support

Drupal ships with an implementation of the JSON:API specification, but [GraphQL](#) and other standards are also available as extensions. This allows developers to use Drupal as a central content store on a decoupled front end (mobile application, JavaScript framework, etc.).



Mobile Experience

Drupal is designed with mobile in mind, from the installer to the modules page. To support the wide range of internet-enabled devices that are available, Drupal incorporates responsive design into all of its functionality. Carefully crafted form elements provide targeted user interfaces on mobile devices for fields such as date/time, phone numbers, and email addresses.



Static Sites with Drupal

What's unique about Drupal is that it can scale from really complex interactive experiences down to static content sites. The popular [Tome](#) extension allows the use of Drupal as a static site generator with the full power of Drupal at the back end, while only the super-fast-to-serve static site content is pushed to production.



A Closer Look at Features that Streamline Work for Marketers



Layout Builder

The Layout Builder core module provides layout capabilities for content. Layout Builder is unique in offering a single, powerful visual design tool for the following three use cases:

- **Layouts for templated content**
- **Customization for templated layouts**
- **Custom pages**



Multilingual Capabilities

Drupal comes with built-in features to make any part of the system multilingual:

- **The ability to install Drupal in 100 different languages from the get-go**
- **Translation for content items, such as nodes, taxonomy terms, menu items, and user profiles**
- **Configuration translation, such as making listings and forms multilingual**



Content Workflow

The Workflows module allows users to define multiple workflows and show the content workflow states and transitions allowed between them. The Content Moderation module allows users to create content revisions that are not live yet, but have received updates since the last version.



Workspaces

A promising experimental feature still under development called Workspaces allows for staging and publishing multiple content changes (article text, sidebar blocks, menu entries, and so on) at once and previewing how they will look in their entirety. Users can even prepare site content around multiple “scenarios,” such as election results or Oscar winners, and publish the appropriate version when the time comes.



Drupal Ecosystem

- Drupal Core – Features that are available out of the box.
- Modules – Used to add more features to core.
- Themes – Used to change the look and feel of Drupal.
- Distributions (soon Recipes) – Predefined and configured modules and themes for a specific purposes.
- Community – A group of users that use Drupal.

Drupalisms (the lingo)

- Node – A single piece of content on your site. Every node also belongs to a particular content type.
- Content Type – A content type tells Drupal how to render your content. It defines the fields used, the layout created, and the input form the creator uses.
- Taxonomy – A list of terms for categorising your content.
- Region – Areas of a node where content can be placed. Sidebars, headers, footers, etc are all placed in regions.

Getting Started

- Install Drupal on your Desktop
 - Recommend ddev to get started quickly
 - #devs Need PHP 8.1 or later
- Install Drupal in the Cloud
 - Recommend gitpod

ddev

- Simplifies setting up a local Drupal install
- docker – a tool for simplifying software installs

<https://ddev.readthedocs.io/en/stable/users/quickstart/#drupal>

- Basic commands
 - ddev config
 - ddev start
 - ddev composer
 - ddev drush
 - ddev ssh
 - ddev stop

Gitpod

- Used to run Drupal in the cloud
- Also used for coding

<https://github.com/shaal/ddev-gitpod>

Tools

- command line interface (cli) – Used to enter commands for composer.
- composer - For installing drupal modules.
- drush – For enabling and disabling modules.
- ddev – For simplifying the installation of Drupal.

Getting Started Demo (photo break)

- ddev
- <https://ddev.readthedocs.io/en/stable/users/quickstart/#drupal>
- gitpod
- <https://github.com/shaal/ddev-gitpod>
- To log in to the admin end, use command
ddev drush uli

```
ainsofs@IT-LAP-550: ~/p/my- X + v
[notice] Starting Drupal installation. This takes a while.
[notice] Performed install task: install_select_language
[notice] Performed install task: install_select_profile
[notice] Performed install task: install_load_profile
[notice] Performed install task: install_verify_requirements
[notice] Performed install task: install_verify_database_ready
[notice] Performed install task: install_base_system
[notice] Performed install task: install_bootstrap_full
[notice] Performed install task: install_profile_modules
[notice] Performed install task: install_profile_themes
[notice] Performed install task: install_install_profile
[notice] Performed install task: install_configure_form
[notice] Performed install task: install_finished
[success] Installation complete.
https://my-drupal-site.ddev.site/user/reset/1/1716162363/DVfUwgzFp6lQq25m_U_8VuDdW5LervIS9GrpNQTOsdg/L
ogin
/usr/bin/xdg-open: 882: x-www-browser: not found
/usr/bin/xdg-open: 882: firefox: not found
/usr/bin/xdg-open: 882: iceweasel: not found
/usr/bin/xdg-open: 882: seamonkey: not found
/usr/bin/xdg-open: 882: mozilla: not found
/usr/bin/xdg-open: 882: epiphany: not found
/usr/bin/xdg-open: 882: konqueror: not found
/usr/bin/xdg-open: 882: chromium: not found
/usr/bin/xdg-open: 882: chromium-browser: not found
/usr/bin/xdg-open: 882: google-chrome: not found
/usr/bin/xdg-open: 882: www-browser: not found
/usr/bin/xdg-open: 882: links2: not found
/usr/bin/xdg-open: 882: elinks: not found
/usr/bin/xdg-open: 882: links: Permission denied
/usr/bin/xdg-open: 882: lynx: not found
/usr/bin/xdg-open: 882: w3m: not found
xdg-open: no method available for opening 'https://my-drupal-site.ddev.site'
Failed to run launch ; error=exit status 3
ainsofs@IT-LAP-550:~/p/my-drupal-site$ ddev composer require 'drupal/project_browser:^1.0@beta'
./composer.json has been updated
Running composer update drupal/project_browser
Loading composer repositories with package information
Updating dependencies
Lock file operations: 1 install, 0 updates, 0 removals
- Locking drupal/project_browser (1.0.0-beta5)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
- Installing drupal/project_browser (1.0.0-beta5): Extracting archive
Generating autoload files
45 packages you are using are looking for funding.
Use the 'composer fund' command to find out more!
No security vulnerability advisories found.
ainsofs@IT-LAP-550:~/p/my-drupal-site$
```

EXPLORER

▼ DDEV-GITPOD

- > .ddev
- > .github
- > .theia
- > .vscode
- > vendor
- > web
- ⚙️ .editorconfig
- 💎 .gitattributes
- 💎 .gitignore
- ! .gitpod.yml
- {} composer.json
- {} composer.lock
- 📄 LICENSE
- 📖 README.md

Start

- 📄 New File...
- 📄 Open File...
- 🔗 Clone Git Repository...

Recent

- ki-projects-db /workspace
- gitpod-drupal /workspace
- ki-projects-db /workspace
- ddev-gitpod /workspace
- where-about's /workspace
- More...

☒ Show welcome page on startup

Walkthroughs

- ★ Get Started with VS ...
Customize your editor, learn the basics, and start coding
- 💡 Learn the Fundame...
- 🔗 Get Starte... Updated


Simple Browser

https://8080-shaal-ddevgitpod-jj5nop4ieq2.ws-us110.gitpod.io

English Español 🔍 Log in

umami

FOOD MAGAZINE



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Gitpod Task 1: bash

```
All project containers are now ready.
Successfully started ddev-gitpod
Project can be reached at https://8080-shaal-ddevgitpod-jj5nop4ieq2.ws-us110.gitpod.io
Awaiting port 8080... ok
gitpod /workspace/ddev-gitpod (main) $ ddev drush uli
https://8080-shaal-ddevgitpod-jj5nop4ieq2.ws-us110.gitpod.io/en/user/reset/1/1716164042/uC1bAOcoTrKgHx5y2xUpC7ypr71UQe3tBmDFutFgFck/login
gitpod /workspace/ddev-gitpod (main) $ ddev drush sql-dump --gzip --result-file=backup.sql
[success] Database dump saved to backup.sql.gz
gitpod /workspace/ddev-gitpod (main) $
```

Gitpod main 0 0 0 Share

Layout: US Ports: 3306, 8027, 8080, 8443, 45573

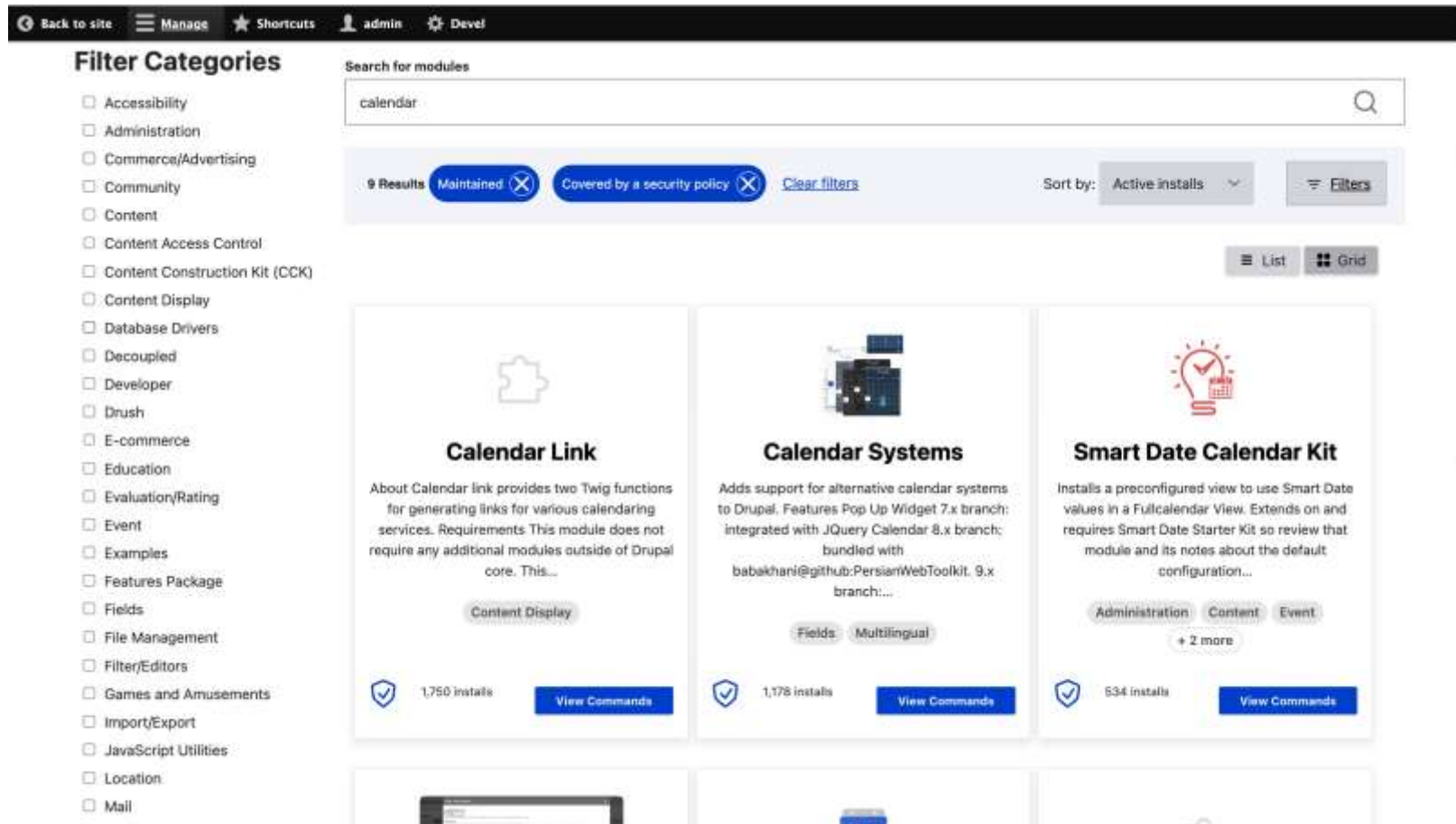
Site Building



Themes

implemented at any time during the site build

Modules: Project Browser



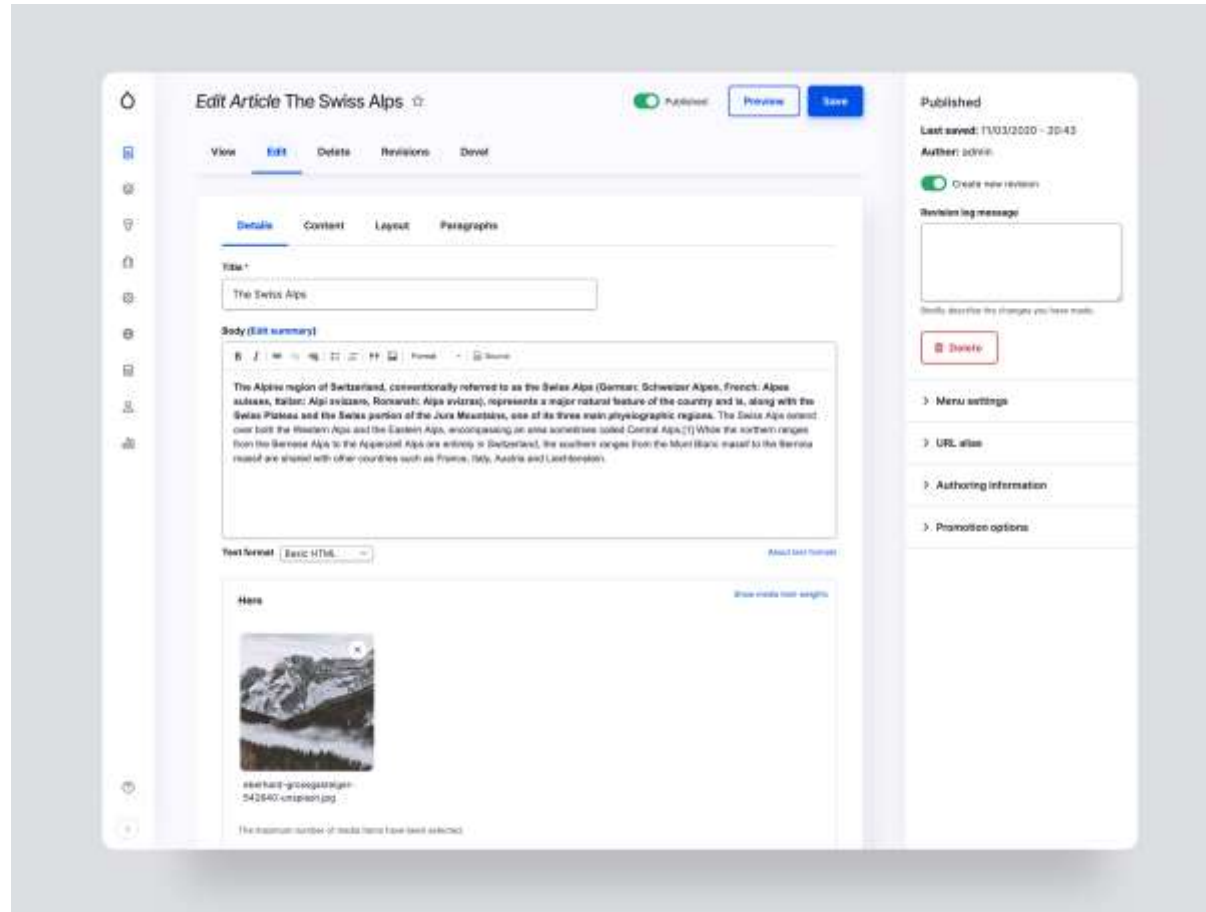
The screenshot displays the Drupal Project Browser interface. At the top, a navigation bar includes links for 'Back to site', 'Manage', 'Shortcuts', and user information 'admin' with a 'Devel' status indicator. A 'Filter Categories' sidebar on the left lists various module categories with checkboxes, including Accessibility, Administration, Commerce/Advertising, Community, Content, Content Access Control, Content Construction Kit (CKK), Content Display, Database Drivers, Decoupled, Developer, Drupal, E-commerce, Education, Evaluation/Rating, Event, Examples, Features Package, Fields, File Management, Filter/Editors, Games and Amusements, Import/Export, JavaScript Utilities, Location, and Mail.

The main content area features a search bar with the text 'calendar'. Below the search bar, a summary bar indicates '9 Results' and includes filters for 'Maintained' and 'Covered by a security policy', along with a 'Clear filters' link. A 'Sort by: Active installs' dropdown and a 'Filters' button are also present. View toggles for 'List' and 'Grid' are located on the right.

Three module cards are displayed in a grid:

- Calendar Link**: Described as providing two Twig functions for generating links for various calendaring services. It has 1,750 installs and a 'View Commands' button.
- Calendar Systems**: Adds support for alternative calendar systems to Drupal, featuring Pop Up Widget 7.x branch and integrated with JQuery Calendar 8.x branch. It has 1,178 installs and a 'View Commands' button.
- Smart Date Calendar Kit**: Installs a preconfigured view to use Smart Date values in a Fullcalendar View. It has 534 installs and a 'View Commands' button.

Theme: Gin



Site building Demo

Ways to leverage Drupal

- Online database
- Headless (support for JSON:API and GraphQL)
 - Single Page Applications, Mobile Apps, Digital Displays, Smart TVs
- Static Site Generator - [Tome](#)
- Application development framework

Hands on Activities

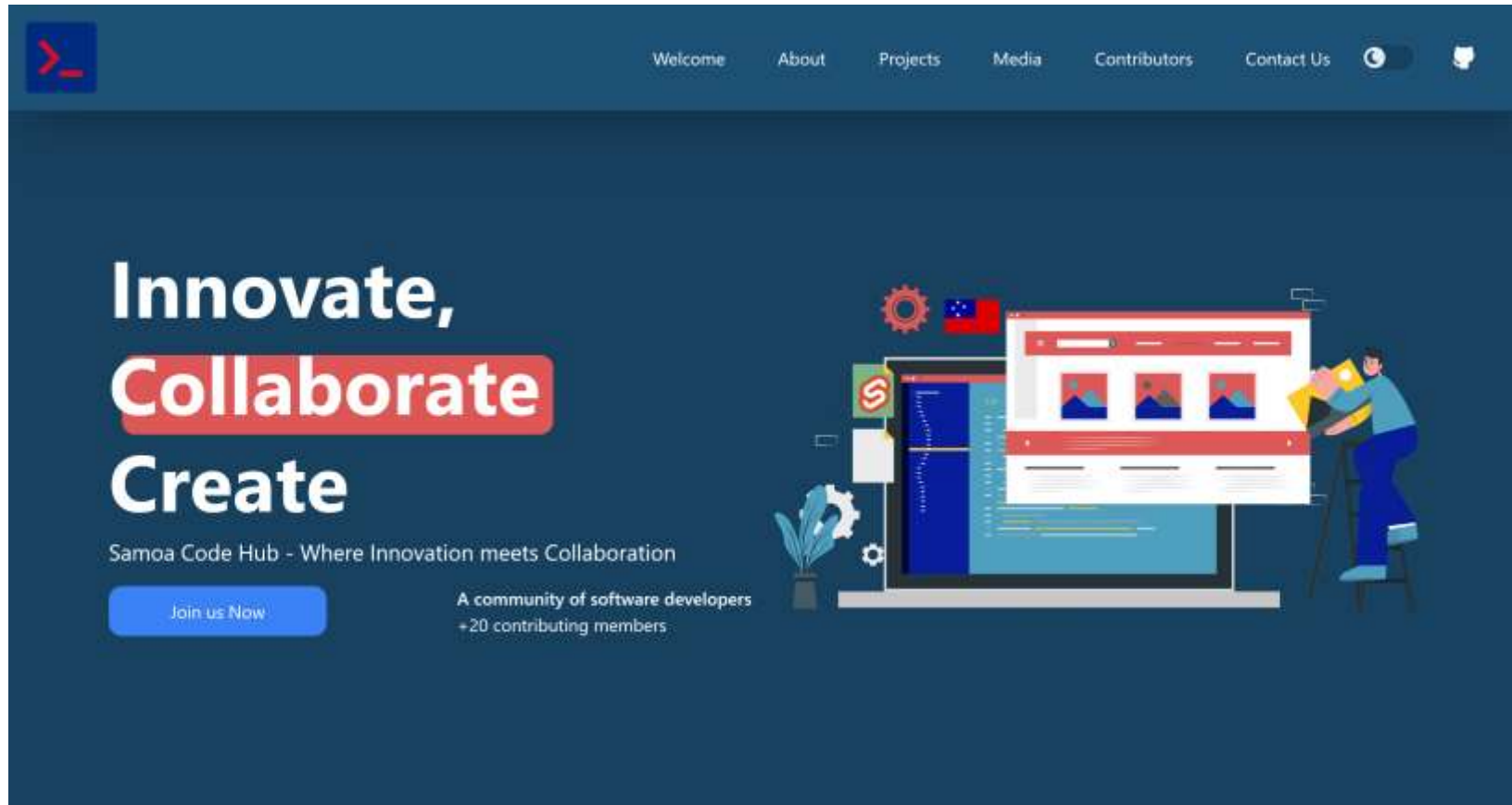
- A new Article
- Add a new content type for a list of projects
 - Add the fields: title, budget, status
- Change the Site theme to Claro
- Download and enable the Devel module
- Generate a list of Articles using Devel Generate module

Objectives Recap

- Understand what Drupal is and why it exists
- Get Drupal running in your local environment or the cloud
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Questions

- Join Us at [Samoa Code Hub](#)



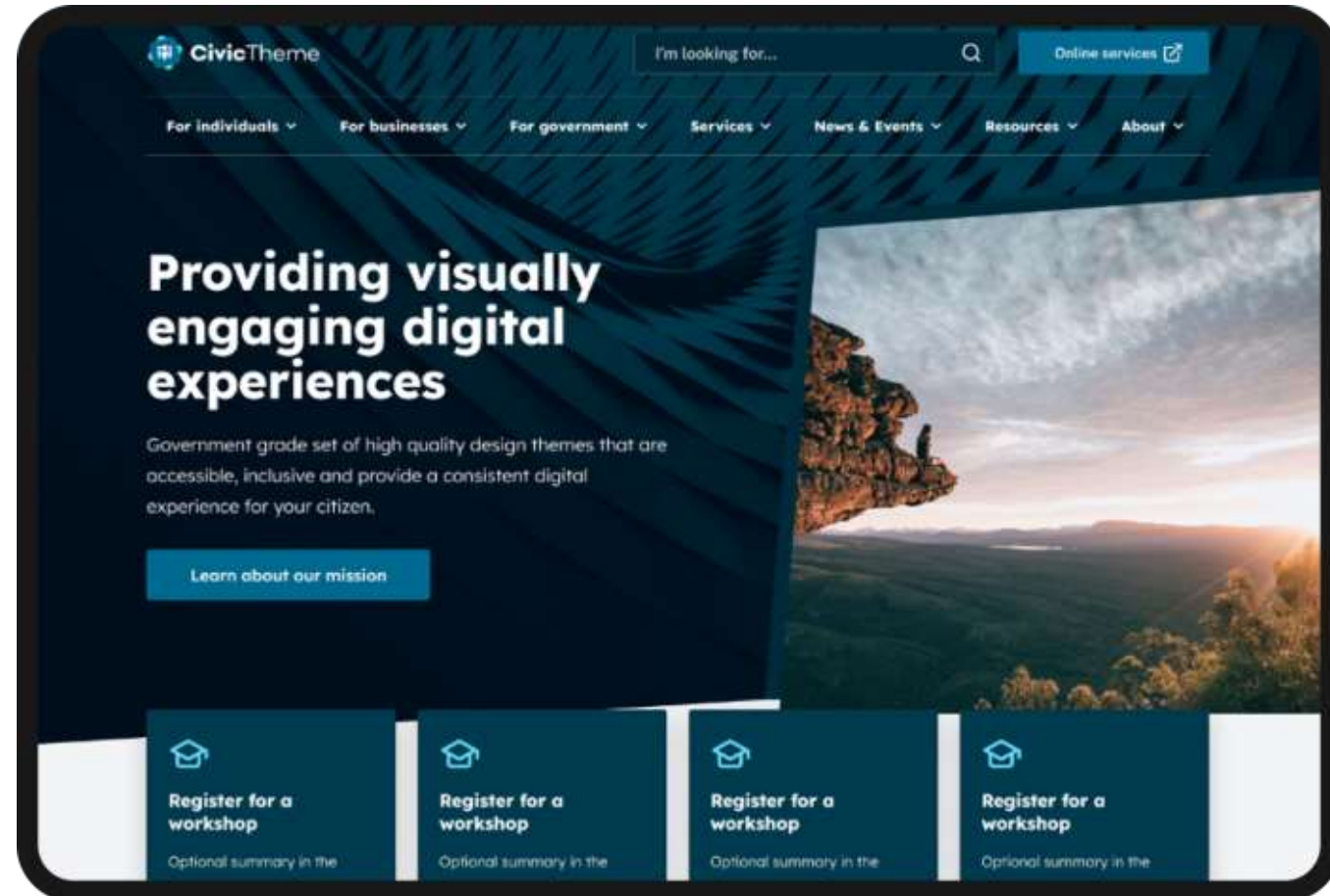
Resources

- [Ultimate Guide to Drupal 10](#)
- [Absolute Beginners Guide to Drupal](#)
 - [Absolute Beginner's Guide to Drupal Slides from NedCamp 2022 | imRodMartin](#)
- [Intro to Drupal Slides](#)
- [The Future of Drupal](#)
- [Guide Book](#)

Playgrounds

- <https://github.com/blauerberg/gitpod-drupal>
- <https://github.com/shaal/ddev-gitpod>

> Theme: Civic Theme



> Recipe: Starshot Initiative

