

Intro to UIC RED

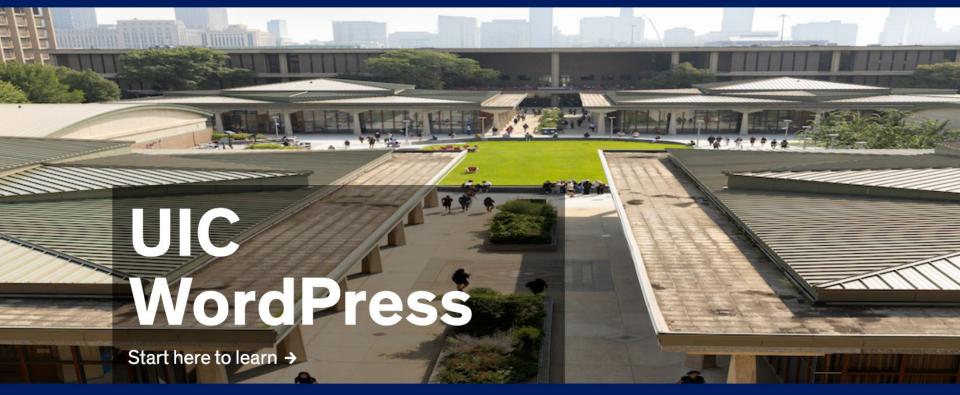
red.uic.edu

- The WordPress platform for creating and managing UIC websites
- UIC branded theme framework for a consistent look across department websites
- Includes a variety of page layouts and content components that are designed to create responsive, accessible and usable websites without extensive knowledge of website development
- Allows departments to host sub-unit websites nested within departmental sites

614productionsites,300 dev andarchive sites ina singleinstallation

Red Multisite

UNIVERSITY OF ILLINOIS CHICAGO





Tutorial

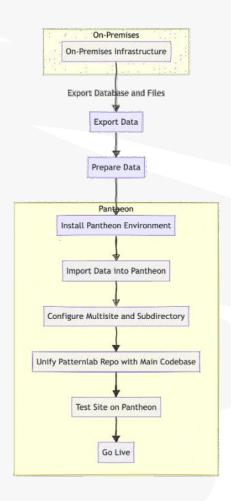








Big Network, Small Team



Migration to Pantheon

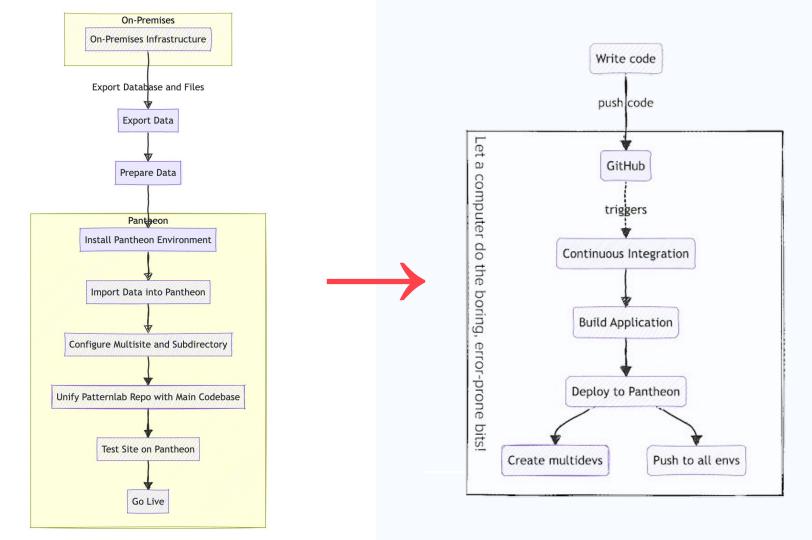
Issues (on-prem hosting):

- Infrastructure update and Maintenance
- Non Scalable
- Security
- Logging and Monitoring.

Collaboration with Human Made

Challenges on Pantheon:

- Performance optimization
- Support for subdirectory multisite structure and subdomain multisite networks
- Ensuring single source code management
- Security
- MultiDev setup



Prepare the codebase

getcomposer.org packagist.org • wpackagist.org



composer require wpackagist-plugin/query-monitor
composer update wpackagist-plugin/safe-svg

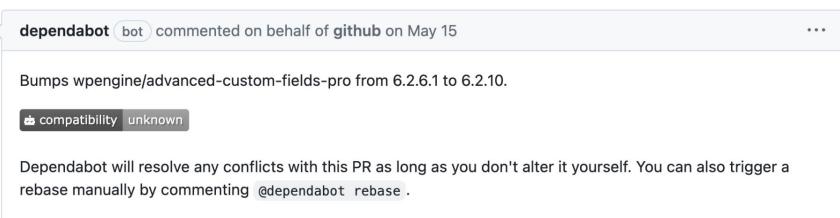
```
wp-content/
   mu-plugins/
       first-party-plugin/
        third-party-plugin/ # Composer-installed, .gitignore'd
       autoloader.php # Versioned file which loads mu-plugins
    plugins/
       first-party-plugin/
       third-party-plugin/ # Composer-installed, .gitignore'd
    themes/
       atom/
    uploads/
                             # .gitignore'd entirely
wordpress/
                             # Composer-installed, .gitignore'd
vendor/
                             # Dev-time dependencies (PHPCS, etcetera), .gitignore'd
index.php
                             # Versioned in Git
wp-config.php
                             # Can be locally committed OR .gitignore'd
```

```
"repositories": {
  "wpackagist": {
    "type": "composer",
    "url": "https://wpackagist.org",
    "only": [ "wpackagist-plugin/*", "wpackagist-theme/*" ]
"require": {
  "johnpbloch/wordpress": "~6.6.0",
  "wpackagist-plugin/web-stories": "^1.35.0",
  "wpackagist-plugin/wordpress-seo": "^23.0"
},
"extra": {
  "installer-paths": {
    "wp-content/plugins/{$name}/": [ "type:wordpress-plugin" ]
  },
  "wordpress-install-dir": "wp"
},
```

Dependabot







▶ Dependabot commands and options

Merge repositories

Those who cannot remember the past are condemned to repeat it...

How do you maintain git history when merging unrelated codebases?

brew install git-filter-repo

- % git checkout you@host.com:your/theme-repo.git
- % cd theme-repo

before

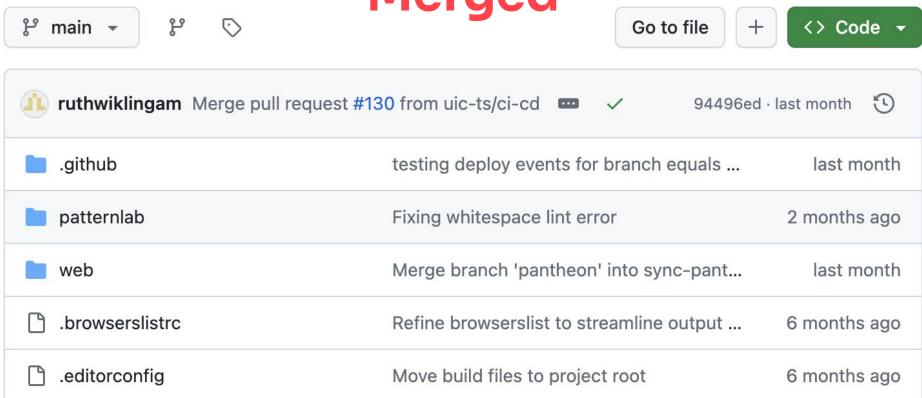
after

```
[16:09:02] % tree | head -n4
                                          [16:10:11] % tree | head -n7
    LICENSE
                                              wp-content
    bin
                                              --- themes
    -- install-wp-tests.sh
                                                  └── uic-red
                                                       ├── LICENSE
[16:09:04] % git log --oneline --graph
                                                       ⊢— bin
 656a7e3 tools(ci): Add a benign commen
                                                           -- install-wp-tests.sh
* 36a5a70 tools(build): install jQuery
 2cf191c chore: Fix syntax warning abou
                                          [16:10:27] % git log --oneline --graph \
* ed287c7 chore: Adding some global lice
                                          * 905fead tools(ci): Add a benign commen
* d51e9fd chore: moved wp-sri plugin url
                                          * 2e261de tools(build): install jQuery |
* 684b193 chore: repatriate semicolons
                                          * f311960 chore: Fix syntax warning abou
* a42fcb1 feat: ignore emergency alert
                                           7b4b349 chore: Adding some global lice
```

git merge --allow-unrelated-histories

- % cd new-monorepo
- % git remote add theme ../theme-dir/.git
- % git fetch theme
- % git merge --allow-unrelated-histories theme/main

Codebases: Merged



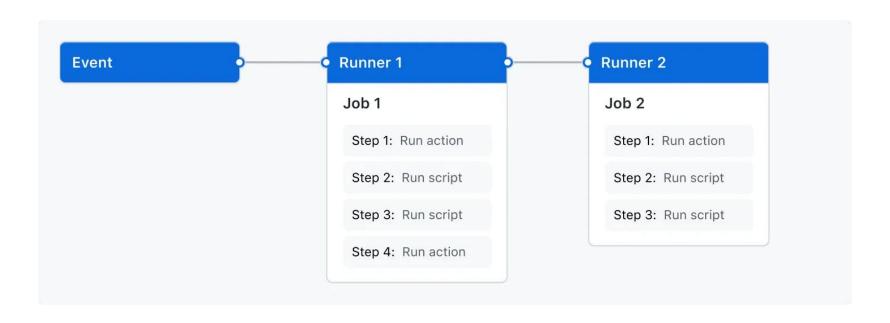
Synchronize changes

Resources

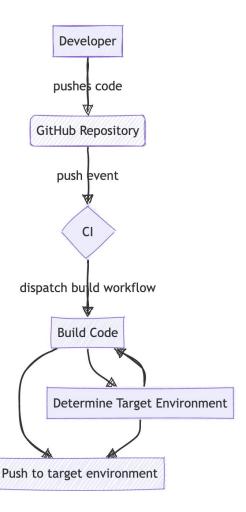
- github.com/newren/git-filter-repo
- Blog post: Merging git repos with git filter-repo
- GitHub documentation on removing sensitive information (using filter-repo)
- Interactive Rebasing tutorial on Bitbucket
- Blog post: Using Dependabot with WordPress

Continuous Integration

GitHub Actions

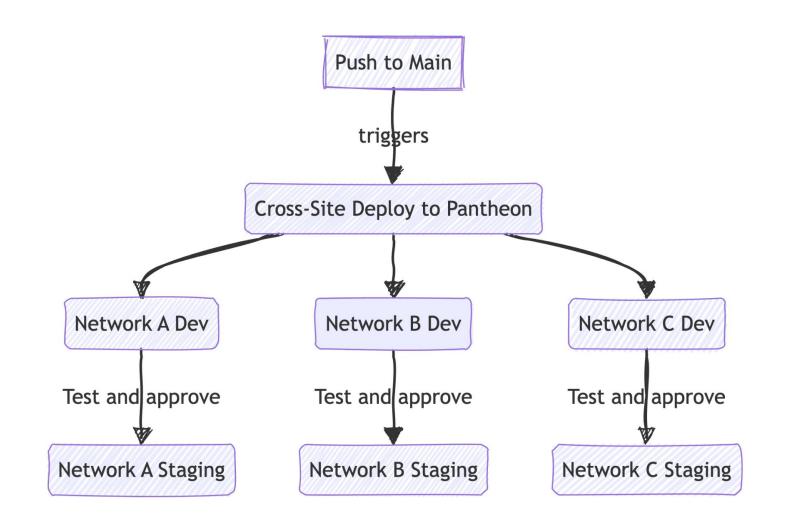


```
name: Build & Deploy
                               .github/workflows/ci.yml
on:
 workflow_dispatch:
 workflow_call:
 push:
   branches:
     - main
 pull_request:
   # Only run on a given PR if relevant source files have changed.
   paths:
     - '**.php'
     - 'etc'
jobs:
 build:
   uses: ./.github/workflows/build.yml
   secrets: inherit
```



build.yml

- Checkout codebase
- 2. Check whether workflow should run
- Set up PHP (Composer dependencies)
- 4. Set up Node (Build dependencies)
- 5. Build project
- 6. Commit built files to target branch
- 7. Push updated deploy branch



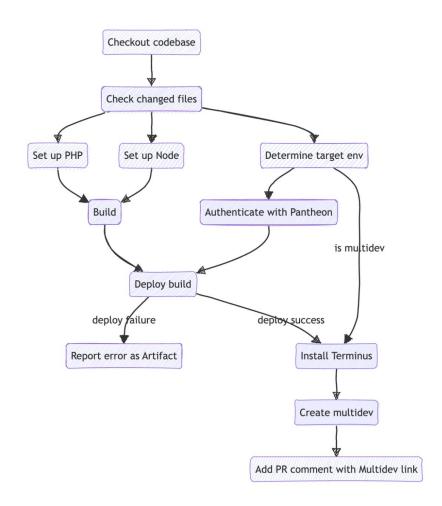
Choose Deploy Target

```
- name: Identify target branches and Pantheon environment context
id: environment
uses: ./.github/actions/environment
with:
    PANTHEON_PROJECT_IDS: ${{ vars.PANTHEON_PROJECT_IDS }}
```

Main or Multidev?

```
- name: Identify target branch names and multidev context
id: branch_name
shell: bash
run: |
    SOURCE_BRANCH="${GITHUB_HEAD_REF:-${GITHUB_REF#refs/heads/}}"
    echo "source_branch=$SOURCE_BRANCH" >> $GITHUB_OUTPUT
    DEPLOY_BRANCH=$(bash .github/actions/environment/determine-target-branch.sh "$SOURCE_BRANCH")
    echo "deploy_branch=$DEPLOY_BRANCH" >> $GITHUB_OUTPUT
```

```
outputs:
  source branch:
    value: ${{ steps.branch name.outputs.source branch }}
    description: Name of source branch for build (either pushed branch or PR base branch).
 deploy branch:
    value: ${{ steps.branch_name.outputs.deploy_branch }}
    description: Name of branch to deploy to, inferred from source_branch.
  is multidev:
    value: ${{ steps.branch name.outputs.is multidev }}
    description: Whether a multidev should be created for this branch.
  pantheon_project_ids:
    value: ${{ steps.environment.outputs.pantheon_project_ids }}
    description: The specific Pantheon instance used as our main deploy target.
```



Full workflow

- 1. Checkout & build
- 2. Determine target environment
 - a. Multidev or Main?
- Deploy to Pantheon env(s)
- 4. Use terminus to create multidev, if necessary
- 5. Report status as PR comment

Resources

- Blog Post: Getting started with Cl and WordPress
- Understanding GitHub Actions
- GitHub Actions Documentation
- Pantheon terminus CLI documentation
- "Introducing GH Actions" on CSS Tricks (slightly outdated but still good)

Looking forward

Further CI opportunities

Code style consistency Security "sniffs"

Outcomes

Outcomes

- Simplified setup for devs
- Retained Pantheon multidev capabilities for review and testing
- Allows for single codebase deployed to multiple installations
- Introduce insert tests, security, and accessibility scanning into build process

Thank You!



