

The Unreasonable Efficiency of Craft and git

2024-09-12 · Moritz L'Hoest

Config or Content?



```
graph LR; Dev[Dev] --- Staging[Staging]; Staging --- Production[Production];
```

Dev

Staging

Production

Config



Dev

Staging

Production

Config



Dev

Staging

Production



Content



Config

Content

Config

Kept in git

Content

Kept in the production database and file storage

Config	Content
Kept in git	Kept in the production database and file storage
Fields, Entry Types, Sections Section and Entry Type handles and UUIDs	Entries Entry data / field values Section and Entry type IDs

Config	Content
Kept in git	Kept in the production database and file storage
Fields, Entry Types, Sections Section and Entry Type handles and UUIDs	Entries Entry data / field values Section and Entry type IDs
Sites	Site content

Entry Condition

Only show when editing entries that match the following rules:

Related To ▾

Entry ▾

123

×

💡 This can be set to an environment variable, or a Twig template that outputs an ID.

+ Add a rule ▾



Entry Condition

Only show when editing entries that match the following rules:

Related To ▾

Entry ▾

×

💡 This can be set to an environment variable, or a Twig template that outputs an ID.

+ Add a rule ▾



Entry Condition

Only show when editing entries that match the following rules:

Related To ▾

Entry ▾

×

💡 This can be set to an environment variable, or a Twig template that outputs an ID.

+ Add a rule ▾



Entry Condition

Only show when editing entries that match the following rules:

Related To ▾

Entry ▾

×

💡 This can be set to an environment variable, or a Twig template that outputs an ID.

+ Add a rule ▾

Entries

All entries

Singles

MIDDLE-EARTH

Fellowship

Peoples

<input type="checkbox"/>	Entry	People	Weapon	Second breakfast	
<input type="checkbox"/>	✧ Gandalf	Maia	Glamdring		
<input type="checkbox"/>	✧ Frodo	Hobbits	Sting		
<input type="checkbox"/>	✧ Sam	Hobbits	Frying pan		
<input type="checkbox"/>	✧ Merry	Hobbits	Barrow-blade		
<input type="checkbox"/>	✧ Pippin	Hobbits	Barrow-blade		
<input type="checkbox"/>	✧ Aragorn	Men	Andúril		
<input type="checkbox"/>	✧ Boromir	Men	Sword		
<input type="checkbox"/>	✧ Legolas	Elves	Bow		
<input type="checkbox"/>	✧ Gimli	Dwarves	Axe		
9 entries					<div>EditExport...</div>

Entries

All entries

Singles

MIDDLE-EARTH

Fellowship

Peoples



Customize sources

All ▾

Search

▼

≡

≡

≡

View ▾

+ New entry ▾

<input type="checkbox"/>	Entry	People	Weapon	Second breakfast	
<input type="checkbox"/>	✦ ● Gandalf	● Maia	Glamdring		
<input type="checkbox"/>	✦ ● Frodo	● Hobbits	Sting		
<input type="checkbox"/>	✦ ● Sam	● Hobbits	Frying pan		
<input type="checkbox"/>	✦ ● Merry	● Hobbits	Barrow-blade		
<input type="checkbox"/>	✦ ● Pippin	● Hobbits	Barrow-blade	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	✦ ● Aragorn	● Men	Andúril		
<input type="checkbox"/>	✦ ● Boromir	● Men	Sword		
<input type="checkbox"/>	✦ ● Legolas	● Elves	Bow		
<input type="checkbox"/>	✦ ● Gimli	● Dwarves	Axe		

9 entries

Edit

Export...

Entries

All ▾

Search



View ▾

+ New entry ▾

All entries

Singles

MIDDLE-EARTH

Fellowship

Peoples



Customize sources



Entry

People

Weapon



✧ Gandalf

Maia

Glamdring



✧ Frodo

Hobbits

Sting



✧ Sam

Hobbits

Frying pan



✧ Merry

Hobbits

Barrow-blade



✧ Pippin

Hobbits

Barrow-blade



✧ Aragorn

Men

Andúril



✧ Boromir

Men

Sword



✧ Legolas

Elves

Bow



✧ Gimli

Dwarves

Axe

9 entries

Table Columns

- ✧ ☒ People
- ✧ ☒ Weapon
- ✧ ☒ Second breakfast
- ✧ ☒ Link
- ✧ ☐ Ancestors
- ✧ ☐ Date Created
- ✧ ☐ Date Updated
- ✧ ☐ Drafts
- ✧ ☐ Entry Type
- ✧ ☐ Expiry Date
- ✧ ☐ ID
- ✧ ☐ Parent
- ✧ ☐ Post Date
- ✧ ☐ Revision Notes
- ✧ ☐ Section
- ✧ ☐ Slug
- ✧ ☐ Status
- ✧ ☐ UID
- ✧ ☐ URI

Close

Edit

Export...

The Source of Truth

The repository contains the truth,
the whole truth,
and nothing but the truth.

The repository contains the truth,
the whole truth,
and nothing but the truth.

The repository contains the truth,
the whole truth,
and nothing but the truth.

The repository contains the truth,
the whole truth,
and nothing but the truth.

Ignored folders and files

Source(s) of truth

Ignored folders and files	Source(s) of truth
vendor/	composer.json, composer.lock


Ignored folders and files	Source(s) of truth
vendor/	composer.json, composer.lock
node_modules/	package.json, package-lock.json

Ignored folders and files	Source(s) of truth
vendor/	composer.json, composer.lock
node_modules/	package.json, package-lock.json
web/dist/ (Compiled assets)	src/css/, src/js/

Ignored folders and files	Source(s) of truth
vendor/	composer.json, composer.lock
node_modules/	package.json, package-lock.json
web/dist/ (Compiled assets)	src/css/, src/js/
web/cms-uploads/ (Asset volumes)	Production environment

Ignored folders and files	Source(s) of truth
vendor/	composer.json, composer.lock
node_modules/	package.json, package-lock.json
web/dist/ (Compiled assets)	src/css/, src/js/
web/cms-uploads/ (Asset volumes)	Production environment
storage/logs, storage/runtime, web/cpresources	Runtime data

Ignored folders and files	Source(s) of truth
vendor/	composer.json, composer.lock
node_modules/	package.json, package-lock.json
web/dist/ (Compiled assets)	src/css/, src/js/
web/cms-uploads/ (Asset volumes)	Production environment
storage/logs, storage/runtime, web/cpresources	Runtime data
.DS_Store, .cache, Thumbs.db	None



Public template

Watch16

Fork89

Star184


Use this template

5.x6 Branches8 Tags

Go to file

Add file

Code

**timkelty** Merge pull request #104 from craftcms/docs-rip-iis 642e66e · last week 311 Commits

.github	Add code owners.	3 years ago
config	Simplify env	6 months ago
storage	Update .gitignore	5 years ago
templates	4.x documentation URL	2 years ago
web	Remove web.config file	2 weeks ago
.env.example.dev	Update .env.example.dev	6 months ago
.env.example.production	Update .env.example.production	6 months ago
.env.example.staging	Update .env.example.staging	6 months ago
.gitattributes	Add code owners.	3 years ago
.gitignore	Don't .gitignore composer.lock	8 years ago
LICENSE.md	Unlicense → BSD Zero Clause License	4 years ago
README.md	Remove project type default	2 weeks ago
bootstrap.php	Use ::class instead of string	2 years ago
composer.json	Merge branch '4.x' into 5.x	last week
composer.json.default	Merge branch '4.x' into 5.x	last week
craft	Shared bootstrap	3 years ago

README

Code of conduct

0BSD license

Security

About

Composer starter project for Craft CMS.

[craftcms.com](#)

phpcmsyii2craftcms

composer-projectcraft3

Readme

0BSD license

Code of conduct

Security policy

Activity

Custom properties

184 stars

16 watching

89 forks

Report repository








Releases3








4.1.0Latest


last week

+ 2 releases

Contributors15







https://github.com/craftcms/craft

github.com/craftcms/craft

github.com/craftcms/cms

Starter project

Craft source code

Your code

Someone else's code

Can be customized to fit your needs

Can't (*) and shouldn't be modified

Goes into your git repository

Doesn't go into your git repository

The Declarative Config

Project Config

Migration

Project Config

Represents a state

Migration

Represents a state change

Project Config	Migration
Represents a state	Represents a state change
No concept of time	Concept of time

Project Config	Migration
Represents a state	Represents a state change
No concept of time	Concept of time
Can be applied	Can be executed and reverted

Project Config	Migration
Represents a state	Represents a state change
No concept of time	Concept of time
Can be applied	Can be executed and reverted
Depends on no previous state, can revert to any previous state without problems	Depends on specific previous state to migrate from, migrations need to be executed in order

Project Config	Migration
Represents a state	Represents a state change
No concept of time	Concept of time
Can be applied	Can be executed and reverted
Depends on no previous state, can revert to any previous state without problems	Depends on specific previous state to migrate from, migrations need to be executed in order
No extra work to support repeated state changes	Extra work to support down migration

The git Workflow

feature-d

feature-a

main

feature-b

feature-c



```
php craft db/backup --zip
```

```
php craft clear-caches/all
```

```
git checkout origin/feature-xyz
```

```
composer install
```

```
php craft up
```

```
npm ci
```

```
npm run build
```

Where's the content, Lebowsky?

Small features, small branches

Rebase frequently

Multiple dependent branches



Watch out for updates

```
git add --patch  
git add --interactive  
git diff --cached
```

```
php craft project-config/touch
```

Thank You!

Slides github.com/MoritzLost/2024-dot-one-amsterdam

E-mail m@moritz.contact

GitHub github.com/MoritzLost

Discord [MoritzLost](#)

Stack Exchange [MoritzLost](#)