



git & features

Building a Reliable Workflow

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Reliable Project Workflow



Created using the UI

- Content Types
- Views
- Image Styles

Stored in database - doesn't fit the workflow

Move Config into code using

Features

GENERAL INFORMATION

Name

Example: Image gallery (Do not begin name with numbers.)

Description

Provide a short description of what users should expect when they enable your feature.

Package

Organize your features in groups.

Version

Examples: 7.x-1.0, 7.x-1.0-beta1

▶ ADVANCED OPTIONS

[Download feature](#)

COMPONENTS

Expand each component section and select which items should be included in this feature export.

Search Select all

▶ CKEDITOR PROFILES (3) (ckeditor_profile)

▶ CONTENT TYPES (7) (node)

▶ DEPENDENCIES (75) (dependencies)

▶ FIELD BASES (12) (field_base)

▶ FIELD INSTANCES (24) (field_instance)

▶ IMAGE STYLES (2) (image)

▶ MENU LINKS (139) (menu_links)

▶ MENUS (6) (menu_custom)

▶ METATAG (20) (metatag)

▶ MINI PANELS (1) (panels_mini)

▶ PAGE MANAGER (3) (page_manager_handlers)

▶ PAGE MANAGER (2) (page_manager_pages)

▶ PERMISSIONS (173) (user_permission)

▶ ROLES (3) (user_role)

▶ TAXONOMY (4) (taxonomy)

▶ TEXT FORMATS (3) (filter)

▶ VIEWS (8) (views_view)

featured_photo

- featured_photo.features.field_base.inc
- featured_photo.features.field_instance.inc
- featured_photo.features.inc
- featured_photo.info
- featured_photo.module
- featured_photo.views_default.inc

```
/**
 * Implements hook_views_default_views().
 */
function featured_photo_views_default_views() {
  $export = array();

  $view = new view();
  $view->name = 'featured_photo_on_home_page';
  $view->description = 'This view creates a block that displays';
  $view->tag = 'default';
  $view->base_table = 'node';
  $view->human_name = 'Featured Photo on Home Page';
  $view->core = 7;
  $view->api_version = '3.0';
  $view->disabled = FALSE; /* Edit this to true to make a default

  /* Display: Master */
  $handler = $view->new_display('default', 'Master', 'default');
  $handler->display->display_options['title'] = 'Featured Photo on Home Page';
  $handler->display->display_options['use_more_always'] = FALSE;
  $handler->display->display_options['access']['type'] = 'perm';
  $handler->display->display_options['cache']['type'] = 'none';
  $handler->display->display_options['query']['type'] = 'views_query';
  $handler->display->display_options['exposed_form']['type'] = 'basic';
  $handler->display->display_options['pager']['type'] = 'none';
```

```
2   core = 7.x
3   package = MAS
4   version = 7.x-1.0-001
5   project = featured_photo
6   dependencies[] = features
7   dependencies[] = imagefield_crop
8   dependencies[] = number
9   dependencies[] = text
10  dependencies[] = views
11  dependencies[] = views_slideshow
12  features[ctools][] = views:views_default:3.0
13  features[features_api][] = api:2
14  features[field_base][] = field_caption
15  features[field_base][] = field_featured_image
16  features[field_base][] = field_sort_order
17  features[field_instance][] = node-featured_photo_on_home
18  features[field_instance][] = node-featured_photo_on_home
19  features[field_instance][] = node-featured_photo_on_home
20  features[image][] = featured_photo_add_border
21  features[node][] = featured_photo_on_home_page
22  features[views_view][] = featured_photo_on_home_page
23  features_exclude[dependencies][ctools] = ctools
24  features_exclude[dependencies][image] = image
25  project.path = sites/all/modules/custom
26
```

View in Code

Featured Photo on Home Page

Display: *Block*

In code

Type: Content

This view creates a block that displays a Featured Photo

The screenshot shows the 'Views' configuration page in Drupal. The 'Views' tab is selected, and the 'LIST' and 'SETTINGS' buttons are visible. A table lists the views, with the 'Featured Photo on Home Page' view highlighted. A blue arrow points from this view's description in the table to a larger callout box on the left. The table has columns for 'TAG', 'PATH', and 'OPERATIONS'. The 'Featured Photo on Home Page' view has a 'default' tag and a path of '/display-single-event'. The 'News and Announcements Views' view has a 'default' tag and a path of '/news_and_announcements'. The 'Photo of the Week' view has a 'default' tag and no path.

TAG	PATH	OPERATIONS
Calendar	/calendar/month, /calendar/week, /calendar/day, /calendar/year, /calendar/list_of_events	Edit
default		Edit
default	/display-single-event	Edit
default	/news_and_announcements	Edit
default		Edit

Featured Photo on Home Page
This view creates a block that displays a Featured Photo
Display: *Block*
In code
Type: Content

News and Announcements Views
Displays: *Block, Page*
In database
Type: Content

Photo of the Week
Display: *Block*
In database

Changes Happen.

The image shows a screenshot of the Drupal Views configuration interface. A callout box highlights the 'Featured Photo on Home Page' view. The callout box contains the following text:

- Featured Photo on Home Page**
- This view creates a block that displays a Featured Photo
- Display: *Block*
- Database overriding code
- Type: Content

The background screenshot shows the 'Views' configuration page with a table of views. The 'Featured Photo on Home Page' view is highlighted in the table. The table has columns for the view name, description, display type, database overriding code, and type. The 'Featured Photo on Home Page' view is the second row in the table.

View Name	Description	Display Type	Database Overriding Code	Type
Display Single Event		default	/display-single-event	Content
Featured Photo on Home Page	This view creates a block that displays a Featured Photo	Block		Content
News and Announcements Views		default	/news_and_announcements	Content
Photo of the Week		default		Content

Feature Overridden

FEATURE	SIGNATURE	STATE	ACTIONS
<input checked="" type="checkbox"/> Featured Photo	Unavailable 7.x-1.0-001	Overridden	Recreate

Views

- Views Slideshow Enabled

Views

- Views Slideshow Enabled

CTOOLS EXPORT API DEFAULT

views:views_default:3.0

FEATURES_API DEFAULT

api:2

FIELD BASES DEFAULT

field_caption field_featured_image field_sort_order

FIELD INSTANCES DEFAULT

node--featured_photo_on_home_page--field_caption
node--featured_photo_on_home_page--field_featured_image
node--featured_photo_on_home_page--field_sort_order

IMAGE STYLES DEFAULT

featured_photo_add_border

CONTENT TYPES DEFAULT


featured_photo_on_home_page

VIEWS OVERRIDDEN

featured_photo_on_home_page

[Revert components](#)

What Change Happened?

Featured Photo 

VIEW

REVIEW OVERRIDES

RECREATE

DEFAULT	OVERRIDES
VIEWS_VIEW	
Line 89	Line 89
<code>\$handler->display->display_options['sorts']['field_sort_order_value']</code>	<code>\$handler->display->display_options['sorts']['field_sort_order_value']</code>
<code>['table'] = 'field_data_field_sort_order';</code>	<code>['table'] = 'field_data_field_sort_order';</code>
<code>\$handler->display->display_options['sorts']['field_sort_order_value']</code>	<code>\$handler->display->display_options['sorts']['field_sort_order_value']</code>
<code>['field'] = 'field_sort_order_value';</code>	<code>['field'] = 'field_sort_order_value';</code>
	<code>+ \$handler->display->display_options['sorts']['field_sort_order_value']</code>
	<code>['order'] = 'DESC';</code>
<code>/* Filter criterion: Content: Published */</code>	<code>/* Filter criterion: Content: Published */</code>
<code>\$handler->display->display_options['filters']['status']['id'] =</code>	<code>\$handler->display->display_options['filters']['status']['id'] =</code>
<code>'status';</code>	<code>'status';</code>

GENERAL INFORMATION

Name

Machine name: featured_photo

Example: Image gallery (Do not begin name with numbers.)

Description

Provide a short description of what users should expect when they enable your feature.

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▼ **ADVANCED OPTIONS**

URL of update XML

URL of Feature Server. For Example: http://mywebsite.com/fserver

Path to Generate feature module

File path for feature module. For Example: sites/all/modules/features or /tmp. Leave blank for sites/all/modules/custom

COMPONENTS

Expand each component section and select which items should be included in this feature export.

Search



Clear

 Select all

▶ CKEDITOR PROFILES (3) (ckeditor_profile)

▶ CONTENT TYPES (7) (node)

 Featured Photo

▶ DEPENDENCIES (68) (dependencies)

 Features

 Image crop

 Number

 Views

 Views Slideshow

 Chaos tools

 Image

▶ FIELD BASES (12) (field_base)

 field_featured_image

 field_caption

 field_sort_order

▶ FIELD INSTANCES (24) (field_instance)

 node-featured_photo_on_home_page-field_caption

 node-featured_photo_on_home_page-field_featured_image

 node-featured_photo_on_home_page-field_sort_order

▶ IMAGE STYLES (1) (image)

 featured_photo_add_border

▶ MENU LINKS (139) (menu_links)

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▶ TAXONOMY (4) (taxonomy)

Recreate Feature.

Features. Yes.

That's your intro to Features.

Now, how do you deal with code changes?

I've never done that.

Have you ever had files like this?

index.html.old

index.html.oct31

index.html

Why is this bad practice?

It relies on your memory...

What does
index.html.old
do different than
index.html?

What about our Features?

How do we keep track of which exported feature we are using on Prod, Stage, and Dev?

How do we move code from one environment to the next?

We need to wrangle the code.

Version Control
Versioning
Source Control
Revision Control

What VCS should I use? Why?

Because **git** said so.

What is git?

Git is a distributed version control system.

Okay, why is git better than (insert other VCS)

Because I said so.

How do I get started?

`git init`

Initializes a repository in the current directory.

The new repository resides in the `.git` directory

Now what?

git status - shows the current status

```
On branch master
```

```
Initial commit
```

```
nothing to commit (create/copy files and use "git add" to track)
```

Change or create a file

git status

```
On branch master
```

```
Initial commit
```

```
Untracked files:
```

```
(use "git add <file>..." to include in what will be committed)
```

```
index.html
```

```
nothing added to commit but untracked files present (use "git add" to track)
```

Add (stage) index.html

git add index.html

```
On branch master
```

```
Initial commit
```

```
Changes to be committed:
```

```
(use "git rm --cached <file>..." to unstage)
```

```
new file:   index.html
```

```
git add .  
git add -u  
git add path
```

commit index.html

git commit -m "added index.html"

git status

git lg

```
[master (root-commit) aa5007e] added index.html  
1 file changed, 0 insertions(+), 0 deletions(-)  
create mode 100644 index.html
```

```
On branch master  
nothing to commit, working directory clean
```

```
* aa5007e - (HEAD, master) added index.html (2 minutes ago) <DanReinders>
```

*remind me to talk about git aliases

Everyday git commands

clone

init

add

rm

commit

checkout

branch

status

diff

merge

fetch

push

pull

rebase


```
| * | | 639c9b6 - (11 months ago) Made the diff tables adapt nicely to the window's size. Fixes #50. - Julien Phalip
* | | | 8badd8a - (9 months ago) Merge pull request #196 from Kyriakis/master - German Laullon
| \ \ \ \
| * | | | af773ba - (11 months ago) No check for refs on remotes while deleting them - Robert Kyriakis
| / / / /
* | | | 47a8a1a - (9 months ago) Merge pull request #197 from Uncommon/arcfix - German Laullon
| \ \ \ \
| * | | | d1a8ba9 - (11 months ago) fix for ARC errors and other warnings - David Catmull
| / / / /
* | | | b94240c - (9 months ago) [y so slow] :D - German Laullon
| / / / /
* | | | 8ce13ad - (11 months ago) Merge pull request #194 from jphalip/master - German Laullon
| \ \ \ \
| * | | | 3e045a4 - (11 months ago) Ensure that the previously selected commit remains selected after refreshing. Fixes #
| / / / /
* | | | aae5e7c - (11 months ago) Merge pull request #192 from jphalip/master - German Laullon
| \ \ \ \
| * | | | cd2e8de - (11 months ago) Made the sign-off button optional and hidden by default, as this is a feature that's
| * | | | 42304da - (11 months ago) Display file list at the top of the diff window. - Julien Phalip
| * | | | 24d05af - (11 months ago) Minor UI improvements to commit count status label. - Julien Phalip
| / / / /
* | | | f38201d - (11 months ago) Merge pull request #191 from jphalip/8a9b9629246dc7d97d748f8de414e14a3e019c94 - Germa
```