

# Drupal Installation Profiles

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# What is an install profile?

- A great tool for installing pre-configured Drupal sites
- A quick way to reuse an existing project
- Required by multilingual installations
- In core from Drupal 5

# What is it good for?

- Spare time – create profiles from existing projects and when a similar job comes, just build on one of them
- Make money – hosting services with pre-made profiles (i.e. Bryght)
- Share it – community will be glad :)

# What can it do?

- install/configure modules
- install/configure themes
- create content
- create blocks, users, access rights, menus, views, content types, aliases, forum topics, categories, terms...etc.

# Installing a profile

- Profiles can be easily installed.
  - Just copy the .profile file into profiles directory located in Drupal's root
  - Install required modules (if there is any)
    - sites/all/modules
    - sites/\*/modules
    - profiles/PROFILENAME/modules
  - Hit install.php

# How it works

- At the beginning of installation procedure, installer checks profiles directory.
- If there is more than one .profile file than offers the options
- Installer comes back later, and enables every module
- In the end, it simply calls our custom profile code (after a full Drupal bootstrap)

# Anatomy of a profile (D5)

- `_profile_details()`
- `_profile_modules()`
- `_profile_final()`

```

1 <?php
2
3 // vim: filetype=php
4 include_once('profiles/crud.inc');
5
6 /*****
7 *                               MODULES                               *
8 *****/
9 function small_biotech_profile_modules() {
10     return array (
11         0 => 'block',
12         1 => 'color',
13         2 => 'comment',
14         3 => 'content',
15         4 => 'filter',
16         5 => 'help',
17         6 => 'image',
18         7 => 'img_assist',
19         8 => 'menu',
20         9 => 'node',
21         10 => 'taxonomy',
22         11 => 'system',
23         12 => 'simplenews',
24         13 => 'text',
25         14 => 'tinymce',
26         15 => 'user',
27         16 => 'views',
28         17 => 'views_rss',
29         18 => 'views_ui',
30         19 => 'watchdog',
31         20 => 'poormanscron',
32     );
33 }
34
35 /*****
36 *                               DETAILS                               *
37 *****/
38 function small_biotech_profile_details() {
39     return array (
40         'name' => st('Small Biotech'),
41         'description' => st('This installation profile will install and configure some useful modules for a small biotech company.')
42     );
43 }
44
45 function small_biotech_profile_final() {
46 /*****
47 *                               VARIABLES                               *
48 *****/

```



# Which functions can we use?

- In short: everything that Drupal offers after a full bootstrap
- e.g.  
variable\_set(), variable\_get()  
db\_query(), db\_result()  
node\_type\_save()...etc.
- [api.drupal.org](http://api.drupal.org)

# Improvements in D6

- New philosophy was introduced: tasks
- Profiles are now interactive
- With forms you can interactively configure any modules



localhost

- ✓ Choose language
- ✓ Verify requirements
- ✓ Set up database
- ✓ Install site
- ✓ Configure site
- ✓ Configure Hello module
- ✓ Finished

## Drupal installation complete

Unable to send e-mail. Please contact the site admin, if the problem persists.

Hello!

Congratulations, Drupal has been successfully installed.

Please review the messages above before continuing on to [your new site](#).

# How to do this?

- First of all implement the hook below:

```
28
29 /**
30  * Return a list of tasks that this profile supports.
31  *
32  * @return
33  *   A keyed array of tasks the profile will perform during
34  *   the final stage. The keys of the array will be used internally,
35  *   while the values will be displayed to the user in the installer
36  *   task list.
37  */
38 function default_profile_task_list() {
39     return array(
40         'hello' => 'Configure Hello module',
41     );
42 }
43
44
```

- By default installer does the following tasks:  
profile-select -> locale-select ->  
requirements -> database ->  
profile-install-batch -> locale-initial-batch ->  
configure -> locale-remaining-batch ->  
finished -> done
- If you implement the hook below installer runs your tasks after configure

```
96 function default_profile_tasks(&$task, $url) {
97
98   if ($task == 'profile') {
99     /**
100      * Do lots of cool things here
101      */
102
103     $task = 'hello';
104   }
105   if ($task == 'hello') {
106     drupal_set_message(st("Hello!"));
107     /**
108      * Do some more cool things here
109      */
110     $task = 'profile-finished';
111   }
112 }
113
```

# Altering forms from profile

```
151 /**
152  * Implementation of hook_form_alter().
153  *
154  * Allows the profile to alter the site-configuration form. This is
155  * called through custom invocation, so $form_state is not populated.
156  */
157 function default_form_alter(&$form, $form_state, $form_id) {
158   if ($form_id == 'install_configure') {
159     // Set default for site name field.
160     $form['site_information']['site_name']['#default_value'] = $_SERVER['SERVER_NAME'];
161   }
162 }
163 }
164
```

# Is there a simpler way?

- Install Profile API and Profile Wizard
- Boris Mann @ Bryght
- CRUD - Create / Read / Update / Delete
- Might be in Drupal 7 core

# Profile Generator

- Content types
- Access rights
- Users
- Menus
- Blocks
- URL Aliases



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21         10 => 'taxonomy',
22         11 => 'system',
23         12 => 'simplenews',
24         13 => 'text',
25         14 => 'tinymce',
26         15 => 'user',
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43 }
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46 /*****
47 *                               VARIABLES                               *
48 *****/

```

```
103 /*****  
104 *                               NODE TYPES                               *  
105 *****/  
106 install_add_content_type(array (  
107   'name' => 'Image',  
108   'module' => 'image',  
109   'description' => 'An image (with thumbnail). This is ideal for publishing photographs or screenshots.',  
110   'type' => 'image',  
111   'has_title' => true,  
112   'title_label' => 'Title',  
113   'has_body' => true,  
114   'body_label' => 'Body',  
115   'help' => '',  
116   'min_word_count' => 0,  
117   'custom' => false,  
118   'modified' => false,  
119   'locked' => true,  
120   'orig_type' => 'image',  
121   'is_new' => true,  
122 ));  
123 install_add_content_type(array (  
124   'name' => 'Newsletter issue',  
125   'module' => 'simplenews',  
126   'description' => 'Create a newsletter issue to be sent to subscribed e-mail addresses.',  
127   'type' => 'simplenews',  
128   'has_title' => true,  
129   'title_label' => 'Title',  
130   'has_body' => true,  
131   'body_label' => 'Body',  
132   'help' => '',  
133   'min_word_count' => 0,  
134   'custom' => false,  
135   'modified' => false,  
136   'locked' => true,  
137   'orig_type' => 'simplenews',  
138   'is_new' => true,  
139 ));  
140 install_add_content_type(array (  
141   'type' => 'news',  
142   'name' => 'News',  
143   'module' => 'node',  
144   'description' => st("News have a title, a teaser and a body. They will appear in the block called 'News'."),  
145   'help' => '',  
146   'has_title' => '1',  
147   'title_label' => 'Title',  
148   'has_body' => '1',  
149   'body_label' => 'Body',  
150   'min_word_count' => '0',  
151   'custom' => '1',
```

[Home](#) > [Profile APIs](#)**crud.inc****Drupal CRUD API**[View documentation](#)[View source](#)

## Version

1.12 (checked in on 2007/05/06 at 21:42:29 by borismann)

## Functions

**Name**▲**Description**[install\\_add\\_content\\_type](#)

Given a content\_type array, enable the new content type

[install\\_add\\_filter](#)

Add a filter to an input format

[install\\_add\\_format](#)

Add a new input format

[install\\_add\\_role](#)

Add a role to the roles table.

[install\\_add\\_user](#)

Add a user

[install\\_admin\\_theme](#)

Set admin theme \*

[install\\_contact\\_add\\_category](#)

Add a new contact category, including recipients and so on

[install\\_default\\_theme](#)

Set default theme \*

[install\\_disable\\_theme](#)

Disable theme \*

[install\\_enable\\_theme](#)

Enable theme \*

Code:

<code>install_admin_theme</code>	Set admin theme *
<code>install_contact_add_category</code>	Add a new contact category, including recipients and so on
<code>install_default_theme</code>	Set default theme *
<code>install_disable_theme</code>	Disable theme *
<code>install_enable_theme</code>	Enable theme *
<code>install_format_set_roles</code>	Set the roles that can be used with the filter
<code>install_get_rid</code>	Get the role id for the role name
<code>install_get_vid</code>	Given the name of a vocabulary, return its Vocab ID
<code>install_menu_create_menu</code>	Create a new top-level menu
<code>install_menu_create_menu_item</code>	Create a new menu item
<code>install_menu_disable_item</code>	Remove the specified filter from the specified format
<code>install_menu_get_mid</code>	Get the menu ID, searching on path
<code>install_menu_get_root_menu</code>	Get the menu ID of a root menu, based on title, e.g. Secondary links
<code>install_menu_set_menu</code>	Set an existing menu ID to a new parent
<code>install_profile_field_add</code>	Given a funky array of profile fields, create them.
<code>install_remove_filter</code>	Remove the specified filter from the specified format
<code>install_set_permissions</code>	Set the permission for a certain role
<code>install_tinymce_add_roles</code>	Add roles to an existing TinyMCE profile identified by the profile name
<code>install_tinymce_create_profile</code>	Create a new TinyMCE profile and set the settings

# Some interesting profiles

- Drupal Wiki
- Film Forge
- NASA conference organiser

Děkuji