

Deployment

The darkest of the Drupal arts



Moving stuff to your live site

(And living to tell about it)



Deployment's Five Commandments

Thou Shalt Use **Source Control**

You will always collide with “The Other Guy”
You will always need to undo something

Thou Shalt **Smack** Anyone Who Doesn't

It's not really source control if Bob
keeps changing things via FTP

Thou Shalt Use **Code** Whenever Possible

Code lives in source control
Code is safer than the database

Thou Shalt **Test Thy Changes**

It always works just fine on your laptop

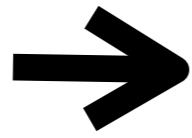
Thou Shalt **Document**

You will always be on vacation
when the really big emergency happens

The Launch



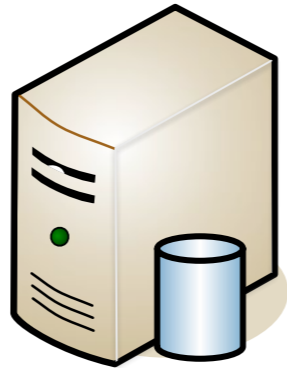
cvs.drupal.org



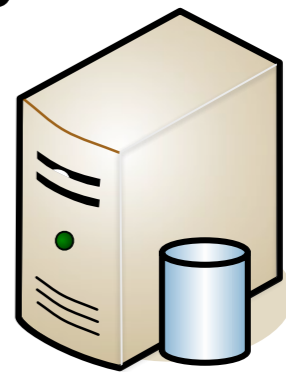
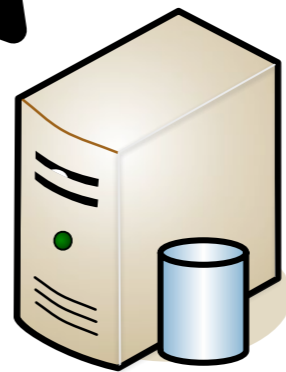
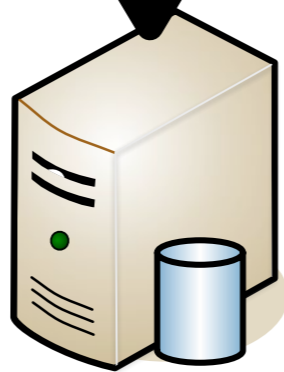
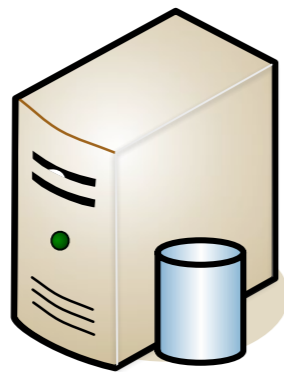
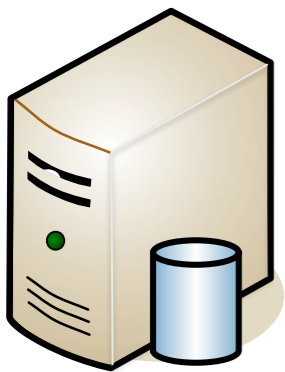
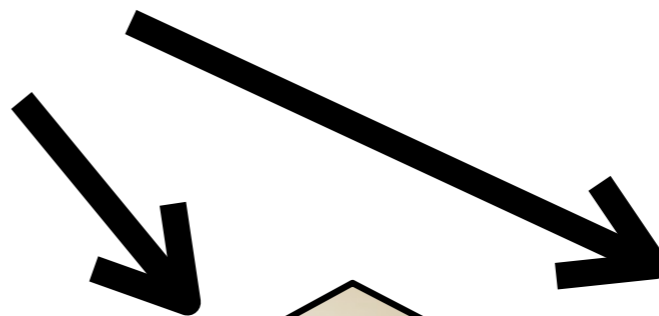
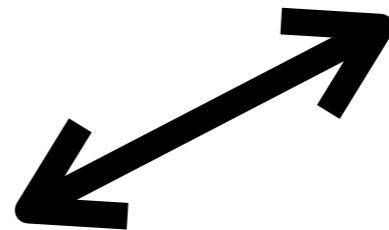
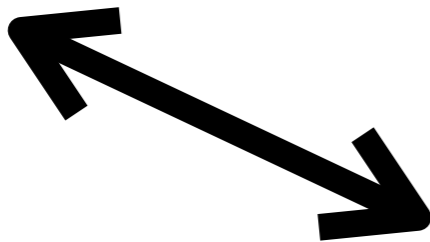
Dev laptop



SVN server



Live server



What's in SVN?



public_html



sites



assets



www.mysite.com

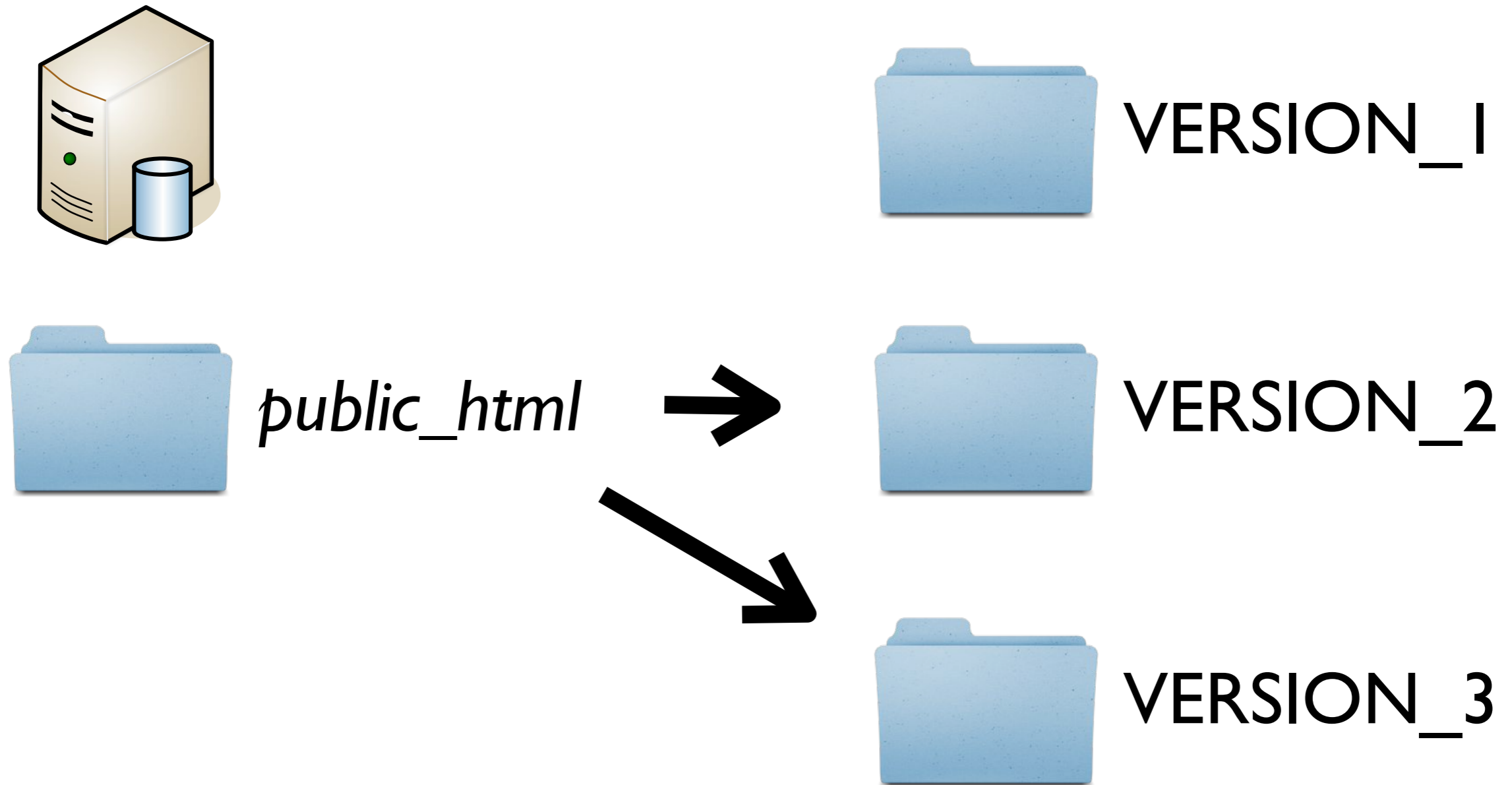


files



db_snapshots

The magic of symlinks



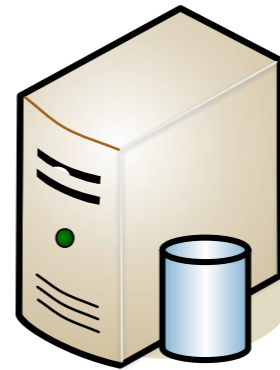
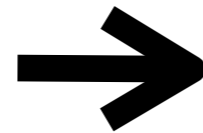
**Fixin' Bugs,
Addin' Features**



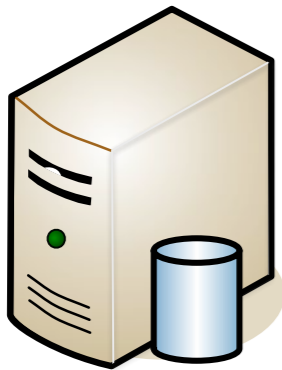
Dev laptop



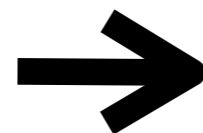
SVN server



Test server



Live server



db_snapshots



Test, Test, Test

Test

Then Test

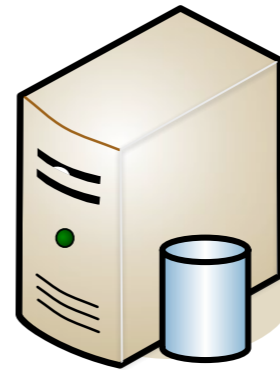
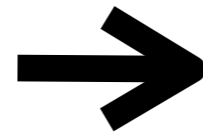
**Wipe the database
then test again**



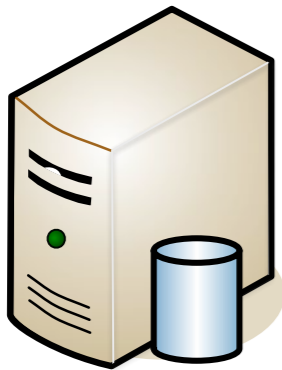
Dev laptop



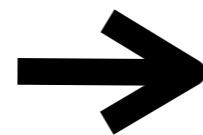
SVN server



Test server



Live server



db_snapshots



Don't hack **live**

Configuration Changes

Export your Views

top_content:

```
$view = new view;  
$view->name = 'top_content';  
$view->description = 'Top rated content';  
$view->tag = 'yotingapi';  
$view->view_php = '';  
$view->base_table = 'node';  
$view->is_cacheable = FALSE;  
$view->api_version = 2;  
$view->disabled = FALSE; /* Edit this to true to make a default view  
disabled initially */  
$handler = $view->new_display('default', 'Default', 'default');
```

your_module.views_defaults.inc
hook_views_default_views()

Drupal database update

The version of Drupal you are updating from has been automatically detected. You can select a different version, but you should not need to.

Click Update to start the update process.

Select versions

system module:

No updates available

fivestar module:

6200

comment module:

No updates available

```
/**
 * Change caller field to function.
 */
function simpletest_update_6002() {
    $ret = array();
    $schema = array();

    $schema = array(
        'type' => 'varchar',
        'length' => 255,
        'not null' => TRUE,
        'default' => ''
    );

    // Clear test results to prevent odd results.
    db_query('DELETE FROM {simpletest}');

    db_drop_field($ret, 'simpletest', 'caller');
    db_add_field($ret, 'simpletest', 'function', $schema);

    return $ret;
}
```



simpletest.install

```
/**
 * Change the site slogan
 */
function our_custom_module_update_1() {
  $new_slogan = "All the news that's fit to print.";
  variable_set('site_slogan', $new_slogan);

  return array('Changed the site slogan.');
```



```
/**
 * Delete some stuff, add other stuff
 */
function our_custom_module_update_2() {
  $ret = array();

  $ret[] = update_query("DELETE {some_stuff};");
  $ret[] = update_query("INSERT ('foo', 1) INTO {other_stuff};");
}
```

http://api.drupal.org/api/function/hook_update_N

Use helper functions, not interns

CCK fields

Imagecache presets

Rules configuration

Menu items

Taxonomy terms...

Install Profile API

Devel module

Variable editor

This is a list of the variables and their values currently stored in variables table and the `$conf` array of your `settings.php` file. These variables are usually accessed with `variable_get()` and `variable_set()`. Variables that are too long can slow down your pages.

<input type="checkbox"/>	Name ↕	Value	Length	Operations
<input type="checkbox"/>	array_filter	s:0:"";	7	edit
<input type="checkbox"/>	clean_url	s:1:"1";	8	edit
<input type="checkbox"/>	clear_cache	s:18:"Clear Views' cache";	26	edit
<input type="checkbox"/>	comment_anonymous_story	i:0;	4	edit
<input type="checkbox"/>	comment_controls_story	s:1:"3";	8	edit
<input type="checkbox"/>	comment_default_mode_story	s:1:"4";	8	edit
<input type="checkbox"/>	comment_default_order_story	s:1:"1";	8	edit
<input type="checkbox"/>	comment_default_per_page_story	s:2:"50";	9	edit
<input type="checkbox"/>	comment_form_location_story	s:1:"0";	8	edit
<input type="checkbox"/>	comment_page	i:0;	4	edit

**Wipe the database
then test**

Test, Test, Test

Test

Then Test

Syncing Content

A photograph of a garage interior. A blue car is elevated on a lift, showing its undercarriage. A red car is on a dolly in the foreground. The scene is cluttered with various items and debris.

Node ID 259

ALSO Node ID 259

Nodes my way

by the Psychedelic Furs

```
/**
 * Create a node.
 */
function mymodule_update_3() {
  $node = new stdClass();
  $node->type = 'page';
  $node->title = 'Terms of service';
  $node->body = "blah blah...";
  $node->uid = 1;
  $node->published = 1;

  node_save($node);
  variable_set('tos_nid', $node->nid);
  return array('Created the Terms of Service.');
```

Nodes my way, Part 2

by the Psychedelic Furs

```
/**
 * Load a node and update it.
 */
function mymodule_update_4() {
  $nid = variable_get('tos_nid', NULL);
  $node = node_load($nid);

  $node->body = "We should put something here.";
  node_save($node);

  return array('Updated Terms of Service.');
```

Nodes my way, Epilogue

by the Psychedelic Furs



Home » Blandit

Blandit View Dev load Dev render Edit **Export**

The following PHP code will create a copy of the node when run on another site.

```
$node = stdClass::__set_state(array(
  'type' => 'story',
  'language' => '',
  'uid' => '3',
  'status' => '1',
  'created' => '1227587211',
  'changed' => '1229059641',
  'comment' => 0));
```

http://drupal.org/project/export_node

Yeah, but...

**Don't synchronize
content.**

Feed API

Publish and Subscribe

Aggregator

Import/Export...

Workflow
Moderation
Drafts
Editor Roles

No Magic Bullets

- Figure out your organization
- Find matching tools
- Roll your own
- Document! Document! Document!

Tools to watch

- **Drush** (*do Drupal stuff from the command line*)
<http://drupal.org/project/drush>
- **Install Profile API** (*helper code for updates*)
http://drupal.org/project/install_profile_api
- **Patterns** (*save site configuration in XML*)
<http://drupal.org/project/patterns>
- **Deployment** (*push site changes via XMLRPC*)
<http://drupal.org/project/deploy>
- **Aegir** (*manage multiple sites from one UI*)
<http://groups.drupal.org/aegir-hosting-system>