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The drop is always moving



Major Improvements

- Usability
- API
- Database Layer
- Update manager
- Security
- Automated Testing

Usability Principles

- ✓ Make the most frequent tasks easy and less frequent tasks achievable.
- ✓ Design for the 80%
- ✓ Privilege the Content Creator
- ✓ Make the default settings smart

Usability Improvements

- Overlay module
 - Isolates admin view from user view
- Contextual links
 - Displays links related to regions of pages with access control
- Dashboard
 - Organizing administrative tasks and tracking information.
- Toolbar
 - Displays links to top-level administration menu items
- Shortcut
 - Create sets of shortcut links to commonly-visited pages
- Vertical tabs

For Site Builders

Overlay

The image shows a screenshot of the Drupal administration interface. At the top, a navigation bar contains links for Dashboard, Content, Structure, Appearance, People, Modules, Configuration, Reports, and Help. A red box highlights this navigation bar. Below it, a secondary toolbar contains 'Add content' and 'Find content', which are circled in red. A red arrow points from this toolbar to an 'Administration' menu. The 'Administration' menu is an overlay that lists various administrative tasks: Home, Dashboard, Content, Structure, Appearance, People, Modules, and Configuration. The word 'Overlay' is written in large red text over the 'Structure' menu item. Another red arrow points from the 'Add content' link to the 'Content' menu item. A third red arrow points from the 'Configuration' link in the top navigation bar to the 'Configuration' menu item. The overlay also features 'TASKS' and 'INDEX' tabs and a close button (X).

Dashboard Content Structure Appearance People Modules Configuration Reports Help

Hello **admin** Log out

Add content Find content

Administration **Shortcut** **Toolbar**

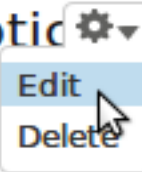
Home

- Dashboard
View and customize your dashboard.
- Content
Administer content and comments.
- Structure **Overlay**
Administer blocks, content types, menus, etc.
- Appearance
Select and configure your themes.
- People
Manage user accounts, roles, and permissions.
- Modules
Enable or disable modules.
- Configuration

TASKS INDEX

Contextual Links

Configure two finger gestures from your synaptic



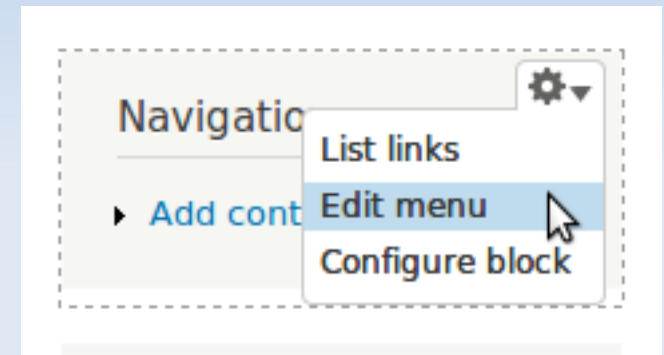
10 - 23:37

Configure two finger gestures from your synaptic touchpad. The
up, down, left, right, and (it will work if both your kernel as well as
check it by using synclient command line tool.).

synclient -m N" on its standard input , where N is your choice of
great, 100 if ur machine is slow. What I mean is this :

non syn_gesture_compiz.py

[Read more](#) [3 comments](#)



Dashboard

Dashboard Content Structure Appearance People Configuration and modules Reports Help Hello a Log out

Add content Find content **Dashboard** edit shortcuts

Home » Administer

Dashboard

Drag and drop dashboard blocks to their place. Changes are automatically saved. You can also [add a custom block](#). Done

Recent comments Administration shortcuts Syndicate Search form Shortcuts Powered by Drupal Navigation

User menu Main menu

Management

[List links](#) [Edit menu](#) [Configure block](#)

- ▶ Add new content
- ▼ Administer
 - ▼ Dashboard
 - Content
 - ▶ Structure
 - Appearance
 - People
 - ▶ Configuration and modules
 - ▶ Reports
 - Help

Who's new

[Configure block](#)

a


Secondary menu

Who's online

There is currently 1 user online.

a

New Default Theme - Barkit



The screenshot shows a Drupal 7 website interface. At the top, there is a navigation menu with links for Dashboard, Content, Structure, Appearance, People, Modules, Configuration, Reports, and Help. The user is logged in as 'admin'. Below the navigation menu, there are links for 'Add content' and 'Find content'. The main header area features the Drupal logo and the text 'Drupal 7 Sandbox'. There are also links for 'My account' and 'Log out'. Below the header, there are three tabs: 'Home', 'Python script', and 'Contact'. The main content area displays a search box, a navigation menu with 'Add content', and a management menu with 'Administration'. The featured article is titled 'Python script to recognize two finger gestures from your synaptic touchpad', published by 'admin' on Sun, 10/10/2010 - 23:37. The article text describes a Python script that monitors for two finger gestures from a synaptic touchpad. The script expects the output of 'synclient -m N' on its standard input, where N is the refresh rate in milliseconds. The article includes a terminal command: `user@host$ synclient -m 20 | python syn_gesture_compiz.py`. The article is tagged with 'python', 'script', and 'touchpad'. At the bottom right, there are links for 'Read more' and '3 comments'.

Dashboard Content Structure Appearance People Modules Configuration Reports Help Hello **admin** Log out

Add content Find content Edit shortcuts

My account Log out

Drupal 7 Sandbox

Home Python script Contact

Search

Navigation

- ▶ [Add content](#)

Management

- ▶ [Administration](#)

Python script to recognize two finger gestures from your synaptic touchpad

published by [admin](#) on Sun, 10/10/2010 - 23:37

This little python script monitors for two finger gestures from your synaptic touchpad. The gestures are limited to simple up, down, left, right, and (it will work if both your kernel as well as xorg is configured for it. You can check it by using synclient command line tool.).

The script expects the output of "synclient -m N" on its standard input , where N is your choice of refresh milliseconds, 10,20 works great, 100 if ur machine is slow. What I mean is this :

```
user@host$ synclient -m 20 | python syn_gesture_compiz.py
```

Tags: [python](#) [script](#) [touchpad](#)

[Read more](#) 3 comments

New Admin Theme - Seven

Home » Administration

Administration

TASKS **INDEX**

This page shows you all available administration tasks for each module.

[Hide descriptions](#)

BLOCK

- [Blocks](#)
Configure what block content appears in your site's sidebars and other regions.
- [Configure Block permissions](#)

COMMENT

- [Comments](#)
List and edit site comments and the comment approval queue.
- [Configure Comment permissions](#)

CONTACT

- [Contact form](#)
Create a system contact form and set up categories for the form to use.
- [Configure Contact permissions](#)

CONTEXTUAL LINKS

- [Configure Contextual links permissions](#)

DATABASE LOGGING

Users can delete own account

Are you sure you want to cancel your account?

When cancelling your account:

- Disable the account and keep all content.
- Disable the account and unpublish all content.
- Delete the account and make all content belong to the *Anonymous* user.
- Delete the account and all content.

Select the method to cancel the account above. This action cannot be undone.

[Cancel](#)

Vertical Tabs

- ▷ Revision information
- ▷ Comment settings
- ▷ File attachments
- ▷ Authoring information
- ▷ Publishing options

E-mails

Welcome (new user created by administrator)

Welcome (awaiting approval)

Welcome (no approval required)

Account activation

Account blocked

Edit the welcome e-mail message required. You can use the following placeholders: [user:mail], [site:login-url], [user:na

Subject

Account details for [user:na

Body

[user:name],

Timezone

[Home](#) » [Administer](#) » [Configuration and modules](#) » [Regional and language](#)

Regional settings

LOCALE

Default country

France

First day of week

Sunday

TIME ZONES

Default time zone

Europe/Paris: Wednesday, September 2, 2009 - 00:48 +0200

- Users may set their own time zone.
- Remind users at login if their time zone is not set.

Time zone for new users

- Default time zone.
- Empty time zone.
- Users may set their own time zone at registration.

Module and Theme Installer

The screenshot shows the Drupal administration interface for installing modules and themes. At the top, there is a navigation menu with links for Dashboard, Content, Structure, Appearance, People, Modules (highlighted), Configuration, Reports, and Help. On the right, it says "Hello admin" and "Log out". Below the navigation is a secondary menu with "Add content" and "Find content" on the left, and "Edit shortcuts" on the right. The main content area has a breadcrumb trail: "Home » Administration » Modules". Below this, the word "Modules" is followed by a plus icon. To the right of "Modules" are three buttons: "LIST", "UPDATE", and "UNINSTALL". The main text area contains instructions: "To install a new module or theme, either enter the URL of an archive file you wish to install, or upload the archive file that you have downloaded. You can find [modules](\"http://drupal.org\") and [themes](\"http://drupal.org\") at [http://drupal.org](\"http://drupal.org\"). The following archive extensions are supported: *zip tar tgz gz bz2*." Below this, there are two installation options. The first is "Install from a URL" with a text input field. Below the field is an example: "For example: *http://ftp.drupal.org/files/projects/name.tar.gz*". The second option is "Or Upload a module or theme archive to install" with a file upload field and a "Browse..." button. Below the field is an example: "For example: *name.tar.gz* from your local computer". At the bottom left, there is an "Install" button.

Dashboard Content Structure Appearance People **Modules** Configuration Reports Help Hello **admin** Log out

Add content Find content Edit shortcuts

Home » Administration » Modules

Modules **+** **LIST** **UPDATE** **UNINSTALL**

To install a new module or theme, either enter the URL of an archive file you wish to install, or upload the archive file that you have downloaded. You can find [modules](http://drupal.org) and [themes](http://drupal.org) at <http://drupal.org>. The following archive extensions are supported: *zip tar tgz gz bz2*.

Install from a URL

For example: *http://ftp.drupal.org/files/projects/name.tar.gz*

Or

Upload a module or theme archive to install

 Browse...

For example: *name.tar.gz* from your local computer

Install

Image Handling

Dashboard Content Structure Appearance People Modules Configuration Reports Help Hello admin Log out


Add content Find content Edit shortcuts

Home » Administration » Configuration » Media » Image styles

Edit *medium* style

Preview

original (view actual size)



600px

800px

medium (view actual size)



165px

220px

Image style name
medium

This image style is being provided by *image* module and may not be renamed.

[Show row weights](#)

EFFECT	OPERATIONS
+ Scale 220x220 (upscaling allowed)	edit delete

Default Node Type

Page

A *page*, similar in form to a *story*, is a simple method for creating and displaying information that rarely changes, such as an "About us" section of a website. By default, a *page* entry does not allow visitor comments and is not featured on the site's initial home page.

Story

A *story*, similar in form to a *page*, is ideal for creating and displaying content that informs or engages website visitors. Press releases, site announcements, and informal blog-like entries may all be created with a *story* entry. By default, a *story* entry is automatically featured on the site's initial home page, and provides the ability to post comments.

+ Add content type

NAME	OPERATIONS			
Article (Machine name: article) Use <i>articles</i> for time-sensitive content like news, press releases or blog posts.	edit	manage fields	manage display	delete
Basic page (Machine name: page) Use <i>basic pages</i> for your static content, such as an 'About us' page.	edit	manage fields	manage display	delete

CCK in core

The screenshot shows the Drupal 6 administration interface for configuring the 'Article' content type. The breadcrumb trail is 'Home » Administration » Structure » Content types » Article'. The page title is 'Article'. There are five tabs: 'EDIT', 'MANAGE FIELDS', 'MANAGE DISPLAY', 'COMMENT FIELDS', and 'COMMENT DISPLAY'. The 'MANAGE FIELDS' tab is active. A 'Show row weights' link is visible in the top right of the table area. The table lists the following fields:

LABEL	NAME	FIELD	WIDGET	OPERATIONS
⊕ Title	title	Node module element		
⊕ Tags	field_tags	Term reference	Autocomplete term widget (tagging)	edit delete
⊕ Image	field_image	Image	Image	edit delete
⊕ Body	body	Long text and summary	Text area with a summary	edit delete

Below the table, there is a section for adding a new field:

⊕ **Add new field**

field_ - Select a field type - - Select a widget -

Changes for Developers

Permissions can have title and description

Drupal 6 supported this format:

```
<?php
function example_perm() {
  return array('administer my module', ...);
}
?>
```

Drupal 7 code should use the following format:

```
<?php
function example_permission() {
  return array(
    'administer my module' => array(
      'title' => t('Administer my module'),
      'description' => t('Perform maintenance tasks for my module'),
    ),
    ...
  );
}
?>
```

FAPI type '#markup' instead of '#value'

Example 1, from system.admin.inc

In Drupal 6:

```
<?php
  $screenshot = $screenshot ? theme('image', $screenshot, t('Screenshot for %theme
  theme', array('%theme' => $theme->info['name'])), '', array('class' => 'screenshot'),
  FALSE) : t('no screenshot');

  $form[$theme->name]['screenshot'] = array('#value' => $screenshot);
?>
```

In Drupal 7:

```
<?php
  $screenshot = $screenshot ? theme('image', $screenshot, t('Screenshot for %theme
  theme', array('%theme' => $theme->info['name'])), '', array('class' => 'screenshot'),
  FALSE) : t('no screenshot');

  $form[$theme->name]['screenshot'] = array('#markup' => $screenshot);
?>
```

Comment status values flipped

Comment status values in the database have flipped so they match node status

This handy table shows the status indicator and what the numeric values are:

Version	Type	Published	Unpublished
6.x and before	Nodes	1	0
6.x and before	Comments	0	1
7.x	Nodes	1	0
7.x	Comments	1	0

The major change is to queries and code that interacts with comments.

Other API changes

- `drupal_set_title()` uses `check_plain()` by default
- `drupal_uninstall_module()` is now `drupal_uninstall_modules()`
- Removed `file_set_status()` in favour of `file_save()`.
- Multiple nodes can now be loaded at once using `node_load_multiple()`.
- Multiple taxonomy terms can now be loaded at once using `taxonomy_term_load_multiple()`.
- A lot of optimizations in API.

More API changes at
<http://drupal.org/update/modules/6/7>

Database

- Fully rewritten database layer utilizing PHP 5's PDO abstraction layer.
- Now drupal can support any PDO compatible database
- Default to InnoDB engine, rather than MyISAM, on MySQL when available.
- ...offers increased scalability and data integrity.
- Added support for the SQLite database engine.

Database

- Drupal now requires MySQL \geq 5.0.15 or PostgreSQL \geq 8.3.
- Added query builders for INSERT, UPDATE, DELETE, MERGE, and SELECT queries.
- Support for
 - Master / slave replication
 - Transactions
 - Multi-insert queries

Query Builder

Drupal 6:

```
$result = db_query("SELECT nid, title FROM {node}  
WHERE type = '%s' AND nid = %d", array($type, $nid));  
$node = db_fetch_object($result);
```

Drupal 7:

```
$node = db_query('SELECT nid, title FROM {node}  
WHERE type = :type AND nid = :nid', array(':type' =>  
$type, ':nid' => $nid))->fetchObject();
```

Query Builder

Drupal 6:

```
$result = pager_query(db_rewrite_sql('SELECT n.nid FROM {node} n
WHERE n.promote = 1 AND n.status = 1 ORDER BY n.sticky DESC,
n.created DESC'), variable_get('default_nodes_main', 10));
```

Drupal 7:

```
$select = db_select('node', 'n')
  ->fields('n', array('nid'))
  ->condition('promote', 1)
  ->condition('status', 1)
  ->orderBy('sticky', 'DESC')
  ->orderBy('created', 'DESC')
  ->extend('PagerDefault')
  ->limit(variable_get('default_nodes_main', 10))
  ->addTag('node_access');
```

Sql Parser

Original SQL

String:

```
SELECT n.nid, n.title, n.created FROM {node} n WHERE n.uid = 1 LIMIT 0, 10;
```

Database

Object:

```
db_select('node', 'n')  
  ->fields('n', array('nid', 'title', 'created'))  
  ->condition('n.uid', 1)  
  ->range(0, 10)  
  ->execute()
```

Convert

More details on Database Layer

<http://drupal.org/developing/api/database>

<http://api.drupal.org/api/drupal/includes--database->

Update Manager

- Enhanced version of "status update" module.
- Periodically checks for new versions of modules and themes
- Configurable to alerts administrators to available updates
- Allows administrators to update and install modules and themes through the administration interface

Automated Testing

26,212 pass(es), 0 fail(s), and 0 exception(es)

Test name	Pass	Fail	Exception
◦ 403 functionality (AccessDeniedTestCase) [System]	75	0	0
◦ 404 functionality (PageNotFoundTestCase) [System]	36	0	0
◦ Actions configuration (ActionsConfigurationTestCase) [Actions]	38	0	0
◦ Actions executing in a potentially infinite loop (ActionLoopTestCase) [Actions]	25	0	0
◦ Add feed functionality (AddFeedTestCase) [Aggregator]	28	0	0
◦ Admin theme block admin accessibility (BlockAdminThemeTestCase) [Block]	18	0	0
◦ Administrative pages (SystemAdminTestCase) [System]	191	0	0
◦ Advanced search form (SearchAdvancedSearchForm) [Search]	31	0	0
◦ AJAX command form values (AJAXFormValuesTestCase) [AJAX]	28	0	0

Security

- Protected cron.php -- cron will only run if the proper key is provided.
- Built-in cron scheduler (using poormanscron)
- Convert to sha-256 and hmac from md5 and sha1
- Limited login attempts to prevent brute-force password guessing
- Improved the flood control API

Requirement

- Database:
 - MySQL 5.0.15
 - PostgreSQL 8.3
 - SQLite 3
 - Any PDO compatible database
- PHP Version 5.2 or higher
- PHP Memory: 40M - 64M

How do i upgrade my module to
Drupal 7 ?

There is a module for that...

Upgrade Helper Modules

- Coder
- Examples
- SQL Parser
- API Changes Document
<http://drupal.org/update/modules/6/7>
- Online Tools
 - <http://upgrade.boombatower.com/tools/php/inline>
 - <http://jonduell.com/sql-parser>

Project Stakeholder

- Project Lead
 - Dries Buytaert
- Maintainer
 - Angela - Webchick
- Module maintainer
 - Identified developer for each core module
 - MAINTAINERS.txt
- Contributor
 - Developers around the world

Recently activity

- Upgrade path
- Performance & optimization
- Zero "critical bugs"
- "major bugs" for about 5 pages
- Update manager module needs work
- Documentation
- Porting modules and themes
- Time to evolve drupal as product
- Targeting Enterprise users

#D7CX

Organic groups

[View](#)

[CVS instructions](#)

[Revisions](#)

Posted by [Amitaibu](#) on *November 25, 2004 at 4:52am*

#D7CX: I pledge that Organic Groups will have a full Drupal 7 release on the day that Drupal 7 is released.

Enable users to create and manage their own 'groups'. Each group can have subscribers, and maintains a group home page where subscribers communicate amongst themselves.

They do so by posting the usual node types: blog, story, page, etc. A block is shown on the group home page which facilitates these posts. The block also provides summary information about the group.

#D7AX

- I pledge to make this [module or theme] as accessible as it can be. If you find any flaws, please submit an issue [link to issue queue]. Help me fix them if you can.
- Accessibility guideline
<http://drupal.org/node/394094>

```
<?php print t('Thank you') ?>
```