

Introduction to Codelgniter

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What is Codelgniter?

YAPF (Yet Another PHP Framework)

Why care about CI?

- Battle-tested
- Fast
- Adaptable

Notable CI features

- Fast
- Compatible with many environments
- Quick to set-up
- Plays well with others
- Focus on simple solutions
- Good docs & community

CI structure

index.php

Loaded by browser
Bootstraps everything

system

base classes & built-in functionality

application

app-specific classes and functionality

Cl structure

	Name A	Date Modified	Size	Kind
	index.php	Today, 1:32 PM	4 KB	PHP source
	icense.txt	4/15/07, 10:41 AM	4 KB	Plainment
W		8/5/07, 12:26 PM		Folder
	application	8/5/07, 12:26 PM		Folder
	Config	7/15/07, 3:49 PM		Folder
	Controllers	7/15/07, 3:49 PM		Folder
	Ø errors	7/15/07, 3:49 PM		Folder
	hooks	7/15/07, 3:49 PM		Folder
	index.html	10/31/06, 10:10 AM	4 KB	HTMLment
	Ulibraries	8/5/07, 12:26 PM		Folder
	models	7/15/07, 3:49 PM		Folder
	views	7/15/07, 3:49 PM		Folder
	▶ 🧳 cache	7/15/07, 3:49 PM		Folder
	Codeigniter	8/5/07, 12:26 PM		Folder
	▶ Ø database	7/15/07, 3:49 PM		Folder
	▶ 🥠 fonts	7/15/07, 3:49 PM		Folder
	► 🥠 helpers	8/5/07, 12:26 PM		Folder
	🕨 💚 language	7/15/07, 3:49 PM		Folder
	▶ Ø libraries	8/5/07, 12:26 PM		Folder
	▶ 🥠 logs	7/15/07, 3:49 PM		Folder
	plugins	7/15/07, 3:49 PM		Folder
	Scaffolding	7/15/07, 3:49 PM		Folder
>	user_guide	7/15/07, 3:49 PM		Folder

URL structure

domain.com/controller_class/method/data

```
<?php
class Search extends Controller {
  [...]
  function retrieve($id)
     $this->load->database();
     [...]
```

- Controller Classes
 - private methods prefixed with "_"

```
function paypal_return_cancel() {
    $this->_showPage('Checkout: Paypal Order Cancelled', "<h3>Your order was cancelled at Paypal</h3>");
}

function _mailUnconfirmedOrder($data) {
    $this->load->library('email');

$config['mailtype'] = 'html';
    $config['protocol'] = 'sendmail';
```

- Views
 - Plain PHP as templating lang

- Views
 - Optional template markup

```
<html>
<head>
    <title>{blog_title}</title>
</head>
<body>
    <h3>{blog_heading}</h3>

{blog_entries}
        <h5>{title}</h5>
        {body}
{/blog_entries}

</body>
</html>
```

- Models
 - Optional
- ActiveRecord pattern available, not required
- Query binding

```
$sql = "SELECT * FROM some_table WHERE id = ? AND status = ? AND author = ?";
$this->db->query($sql, array(3, 'live', 'Rick'));
```

Helpers

- Procedural funcs, grouped by file
- Mostly for views; available in controllers

```
* Plural

*
* Takes a singular word and makes it plural

*
* @access public
* @param string
* @param bool
* @return str
*/
function plural($str, $force = FALSE)
{
   [...]
}
```

Plugins

- Single procedural function
- More extensive functionality than helper

Loading on-demand

• \$this->load->library|view|helper|plugin|...('name');

```
<?php
$this->load->library('email');
                                        // libraries/Email.php
$this->load->helper('cookie');
                                        // helpers/cookie_helper.php
$this->load->view('page', $data_array);
                                        // views/page.php
$this->load->plugin('captcha');
                                         // plugins/captcha_pi.php
$this->load->config('appstuff');
                                         // config/appstuff.php
$this->load->model('shoppingcart');
                                         // models/shoppingcart.php
$this->load->database();
                                         // the CI database libs as configured
?>
```

Auto-loading set in config/autoload.php

CI security

- Not Foolproof (nothing is!)
- Limits allowed chars in URI
- register_globals "forced off"

CI security

- Data only passed via POST or COOKIE
 - GET query destroyed
 - Array keys filtered
- Auto XSS Filtering (must enable)
- Query binding use it!

Extending CI

- The Cl Way
 - Creating your own libs
 - Extend native libs (MY_Email)
 - As-is, can't extend/replace controller or database classes
 - Replacing native libs
 - Hooks

Extending CI

- The "however the hell you want to do it" way
 - Just require your libs
 - Collisions unlikely (not impossible)

Example App

CI + Simplepie + Zend_Json == Web2.0 profit

Danke

- codeigniter.com
- Slides will be up at funkatron.com shortly