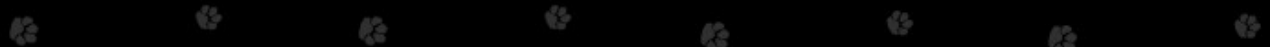




# Zend Framework

Tudor Barbu

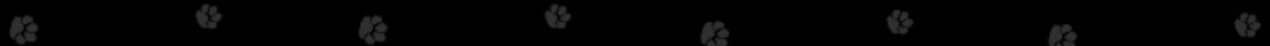
Passionate PHP developer  
Zend Certified Engineer  
Software developer at Zitec  
Blogger at motane.lu  
Lolcats fan





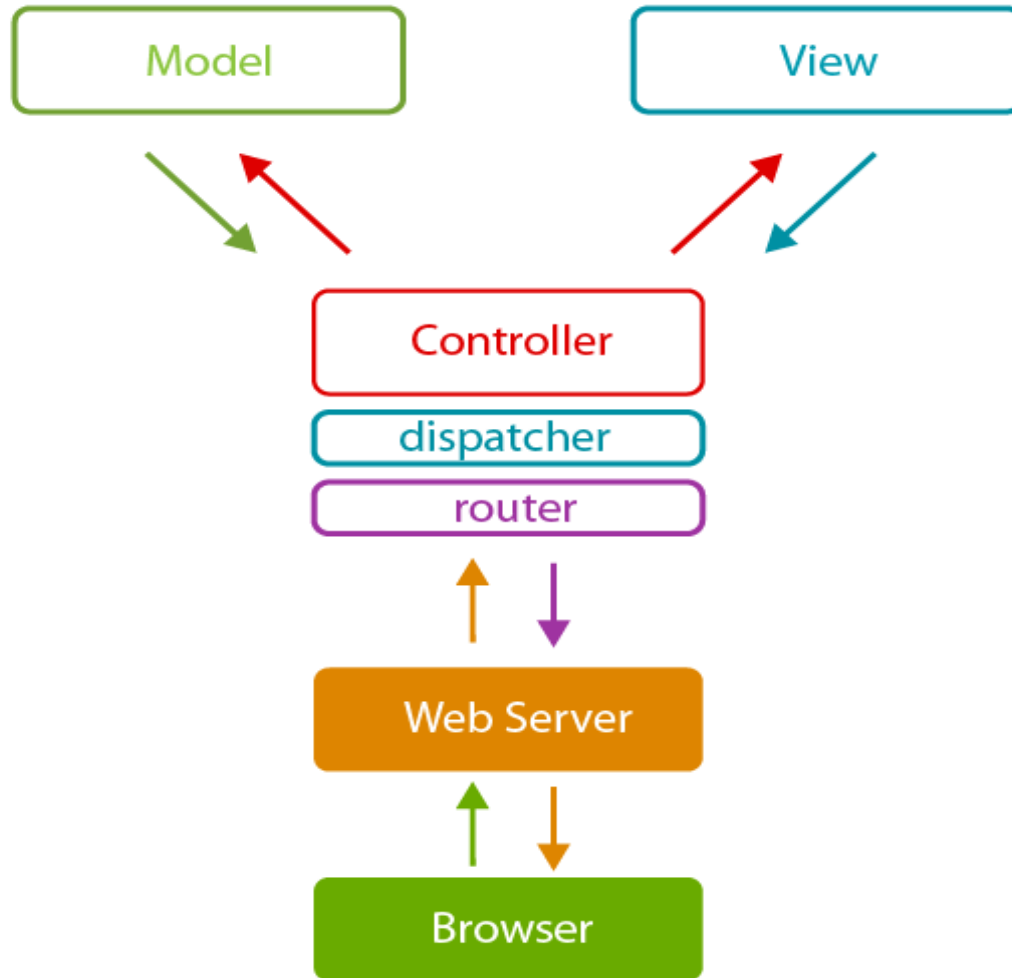
## Why Zend Framework?

- open source (new BSD)
- MVC architecture
- lots of ready made components
- community forums
- official Zend framework
- official certification program
- dozens of books and tutorials





## MVC Architecture





## Model

- represents the data (information) layer
- no standard parent class
- encapsulates the data source
- all I/O goes through the model
- all information logic should be encapsulated within
- use iterable objects for large amounts of data
- Iterator and ArrayAccess interfaces from SPL



## View

- represents the presentation layer
- custom views available by extending `Zend_View`
- it's more than just a another template system
- data should not be formatted for output elsewhere
- `Zend_Layout` as a "master page"
- include external js and css files on demand
- view helpers available



## Controller

- contains the application (business) logic
- extends from `Zend_Controller_Action`
- loads the models and the view
- can use action helpers via the helper broker
- queries the Access Control List
- manages the response headers



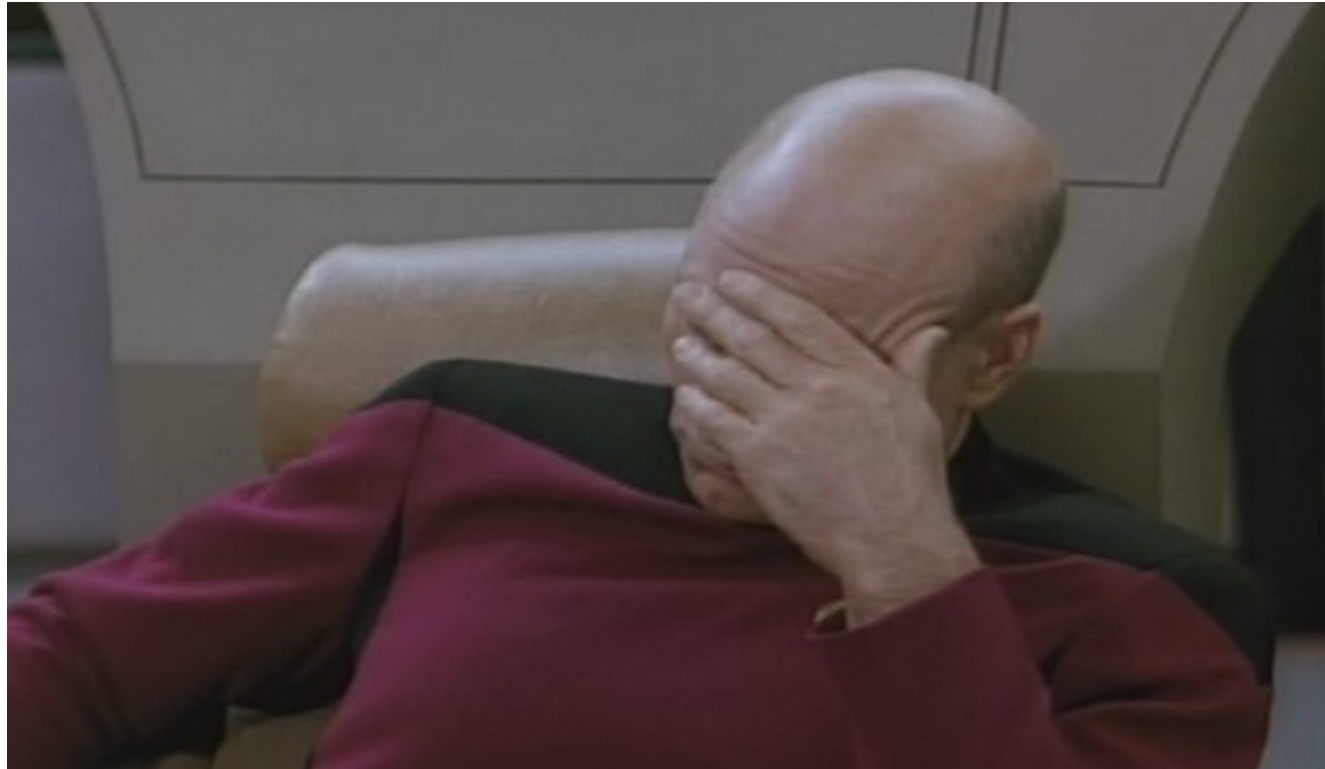
## Separation of concerns

```
<?php
// in the controller
$model    = new User();

$results  = $model->findAll( '`name` LIKE = "%' . $name . '%" );
$geeks    = $model->findAll( '`geeky` = true' );
```

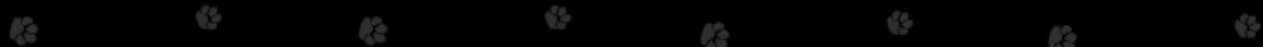


## Separation of concerns...FAIL



### Assumptions:

- all models use a SQL data source
- definitions of data entities will never change (...and they *\*always\** do)





## Separation of concerns



Luke, I am your client!

Now:

- banned users must not appear in search results
- all geeks must have glasses (has\_glasses = true)



## Separation of concerns





## Separation of concerns

```
<?php
```

```
// in the controller  
$model = new User();
```

```
$results = $model->searchByName( $_name );  
$geeks = $model->retrieveGeeks();
```

```
// in the model  
public function searchByName( $_name ) {  
    return $this->findAll( '`name` LIKE = "' . $_name . '" AND `banned` = false' )  
}
```

```
public function retrieveGeeks() {  
    return $this->findAll( '`geeky` = true AND `has_glasses` = true' );  
}
```

```
protected function findAll( $_query_part ) {  
    // retrieve data  
}
```



## Separation of concerns



- Use an XML data source, Open ID authentication, provide RSS feeds and wax my helmet!
- But that will mean to rewrite all the major components, the flow through out the application...the...well...it will take forever...
- I find your lack of faith disturbing!



## Separation of concerns...WIN



MVC on web applications , so cool that can be compared with caffeine...




















## MVC issues

- "SELECT CONCAT( `column1`, `column2` ) FROM `table`" BAAAAAAAAAAAAAAD
- the <title> tag – presentation or application logic?
- multiple iterations over the same data sets



## Application's layout

- ▼  motanelu
  - ▼  application
    - ▷  config
    - ▷  controllers
    - ▷  locale
    - ▷  models
    - ▷  views
    - ▷  bootstrap.php
  - ▼  library
    - ▷  Generic
    - ▷  Motanelu
    - ▷  Zend
  - ▼  public
    -  css
    -  img
    -  js
    - ▷  index.php

- custom directory layout
- recommended layouts available on Zend.com
- naming standard & Zend\_Loader
- keeps the lib files outside the DocumentRoot



## Other goodies

- integration with almost everything
- official support from lots of major software companies
- agile development friendly
- built in authentication and ACL system
- easy form management
- easy modularization
- unit testing available
- advanced session management
- registry system
- extended internationalization system
- and many more...

MOTANE.LU



skillzz.. I haz them

**Stay tuned for some live examples...**

