

# FIRST-LOOK AT ZEND STUDIO 7.0

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Zend Technologies

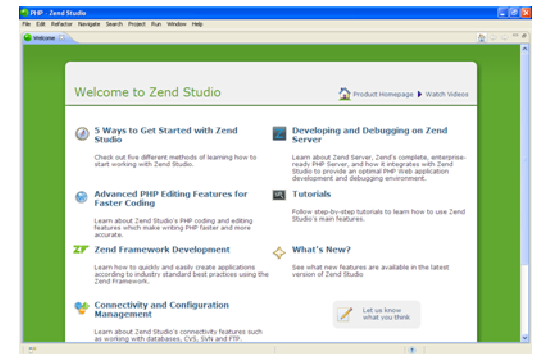


The PHP Company

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# Better Productivity with Zend Studio

- **Develop and Maintain Code Faster**
- **Find & Resolve Problems Quickly**
- **Improve Team Collaboration**
- **Leverage the Latest Technology**



# What's New in Zend Studio 7.0

## PHP 5.3 Support

- Namespace awareness
- Code Assist for PHP 5.3 features
- Namespace Outline
- Providing Executables

## Improved Source Editing

- In Place Refactoring
- Extract Variable/Method
- Improved Refactoring
- Semantic Analysis
- Auto fix (suggestions)
- Mark Occurrences
- Override Indicators
- Type Hierarchy
- Open Type / Method
- Improved Code Assist
- Build / Include Path

## Zend Server Integration

- Auto detection of local Zend Server
- Easy deployment to local Server
- Easy debug
- Servers view
- Zend Server events list

## Zend Framework Integration

- Easy creation of ZF items
- Updated ZF example project
- Zend Tool integration
- Zend Tool command line

## Others

- Performance!
- Step filtering
- Richer content @ Welcome Page

# Demo - Improved Source Editing & PHP 5.3

## Improved Source Editing

- **Refactoring & Semantic Analysis**
  - In Place Refactoring
  - Extract Variable/Method
  - Semantic Analysis & Auto fix
- **Code Navigation**
  - Mark Occurrences
  - Override Indicators
  - Type Hierarchy
  - Open Type / Method
- **Build / Include Path**

## PHP 5.3 Support

- **Namespace Awareness**
- **Code Assist for PHP 5.3**
- **Namespace Outline**
- **Providing Executables**

# Refactoring

## Inline refactoring

```
<div id="more-information">
  <br />
  <?php
    $a = "my name";
    echo $a;
  ?>
  
  Helpful Links: <br />
```

```
<div id="more-information">
  <br />
  <?php
    $userName = "my name";
    echo $userName;
  ?>
  
  Helpful Links: <br />
```

## Extract Variable / Method

```
12 set_include_path(implode(PATH_SEPARATOR, array(
html
24 );
25 $application->bootstrap();
26 ->run();
```

**Extract Local Variable**

Variable name:

Replace all occurrences of the selected expression with references to the local variable

Preview > OK Cancel

# Semantic Analysis & Quick Fix

## "Runtime"/"Semantic" Warnings and Errors

Description	Resource	Path	Location
Call to undefined function 'Exception'	Guestbook.php	/ZFExample/appli...	line 78
Class '\$dbTable' not found	GuestbookMappe...	/ZFExample/appli...	line 28
Class 'Model_Guestbook' not found	GuestbookTest.php	/ZFExample/tests...	line 17
Class 'Model_Guestbook' not found	GuestbookTest.php	/ZFExample/tests...	line 115
Class 'Model_Guestbook' not found	GuestbookTest.php	/ZFExample/tests...	line 138
Class 'Model_GuestbookMapper' not found	GuestbookTest.php	/ZFExample/tests...	line 67
Class 'Model_GuestbookMapper' not found	GuestbookTest.php	/ZFExample/tests...	line 72

```
31
32 function foo($myName) {
33     echo $mName;
34 }
35
36
```

Undefined variable '\$mName'

## Suggestion (Auto fix)

```
32 function foo($myName) {
33     echo $mName;
34 }
35
36
37
```

Change to 'myName'

```
...
function foo($myName) {
echo $myName;
...

```

```
32 function foo($myName) {
33     echo $myName;
34 }
35
36
```

# Mark Occurrences

## Language Elements

```
public function __construct(Zend_Layout $layout = null)
{
    if (null !== $layout) {
        $this->setLayoutInstance($layout);
    } else {
        $layout = Zend_Layout::getMvcInstance();
    }

    if (null !== $layout) {
        $pluginClass = $layout->getPluginClass();
        $front = $this->getFrontController();
        if ($front->hasPlugin($pluginClass)) {
```

Write occurrence

Read occurrence

## Require Elements

```
require_once 'Zend/Controller/Action/Helper/Abstract.php';

* Helper for interacting with Zend Layout objects
class ..... extends Zend_Controller_Action_Helper_Abstract
{
    /**
     * @var Zend_Controller_Front
     */
    protected $_frontController;

    /**
     * ...
     */
```

## Exit Paths

```
public function setConfig($config = array())
{
    if (! is_array($config)) {
        /** @see Zend_Http_Client_Exception */
        require_once 'Zend/Http/Client/Exception.php';
        throw new Zend_Http_Client_Exception('Expected');
    }
    foreach ($config as $k => $v)
        $this->config[strtolower($k)] = $v;

    return $this;
}
```

## Inheritance Points

```
class .... extends Zend_Controller_Action_Helper_Abstract
{
    * Get front controller instance
    public function getFrontController()
    * Get layout object
    public function getLayoutInstance()
    * Set layout object
    public function setLayoutInstance(Zend_Layout $layout)
    * Mark Action Controller (according to this plugin) as :
    public function postDispatch()
```



# Override Indicators

## Implementation

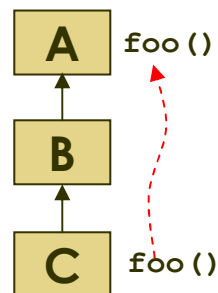
```
100 public function filter($value)
101 {
102     $whiteSpace = $this->allowWhiteSpace ? '\s'
```

```
public function filter($value);
```

## Abstraction

```
68 public function initContext($format = null)
69 {
70     $this->_currentContext = null;
71     if (!$this->getRequest()->isXmlHttpRequest())
72         return;
```

```
public function initContext($format = null);
```



# Type Hierarchy

The screenshot displays the PHP Explorer interface with the 'Type Hierarchy' window open. The main window shows a tree view of classes under 'Zend\_Controller\_Action\_Helper\_Abstract'. The 'Type Hierarchy' window provides a detailed view of the hierarchy and methods for the selected class.

**Type hierarchy of 'src Zend\_Controller\_Action\_Helper\_Abstract':**

- Zend\_Controller\_Action\_Helper\_Abstract
  - Zend\_Controller\_Action\_Helper\_ActionStack
  - Zend\_Controller\_Action\_Helper\_AutoComplete\_Abstract
    - Zend\_Controller\_Action\_Helper\_AutoCompleteDojo
    - Zend\_Controller\_Action\_Helper\_AutoCompleteScriptaculous
  - Zend\_Controller\_Action\_Helper\_ContextSwitch
  - Zend\_Controller\_Action\_Helper\_AjaxContext
  - Zend\_Controller\_Action\_Helper\_FlashMessenger
  - Zend\_Controller\_Action\_Helper\_Json
  - Zend\_Controller\_Action\_Helper\_Redirector
  - Zend\_Controller\_Action\_Helper\_Url
  - Zend\_Controller\_Action\_Helper\_ViewRenderer
  - Zend\_Layout\_Controller\_Action\_Helper\_Layout

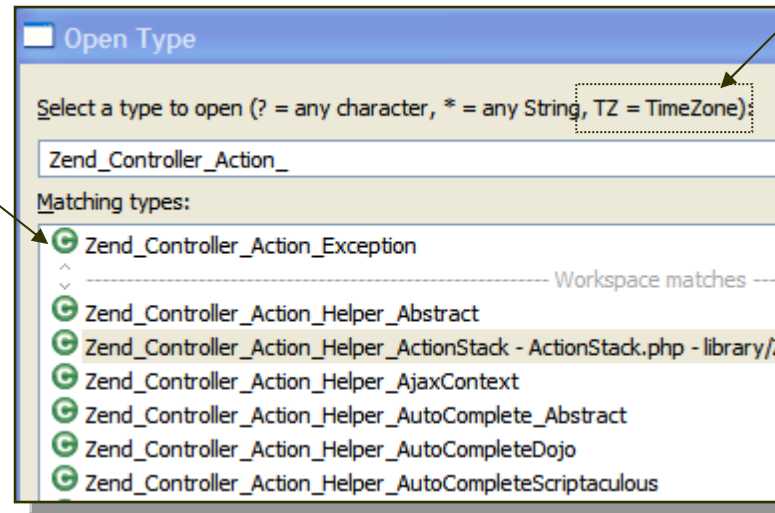
**Methods:**

- \$\_act
- \$\_fro
- getActionController()
- getName()
- getRequest()
- getResponse()
- init()
- postDispatch()
- preDispatch()
- setActionController(\$actionController)

# Open Type / Method

**Most Recently Used**

**Camel-Case Match**



# Enhanced Code Assist

## "Runtime" awareness

```
<?php
function foo() {
    if (something()) {
        return new A();
    }
    return new B();
}
?>
```

foo() has complex return type: {A, B}

## Multiple return values

```
<?php
/**
 * @return C|B
 */
function foo() {
}
?>
```

foo() has complex return type: {C, B}

## Magic members

```
/**
 * show off @property, @property-read, @property-write
 *
 * @property mixed $regular regular read/write
 * @property-read int $foo
 * @property-write blah $bar
 * @method int borp() multiply two integers
 */
```

## Camel Case Match

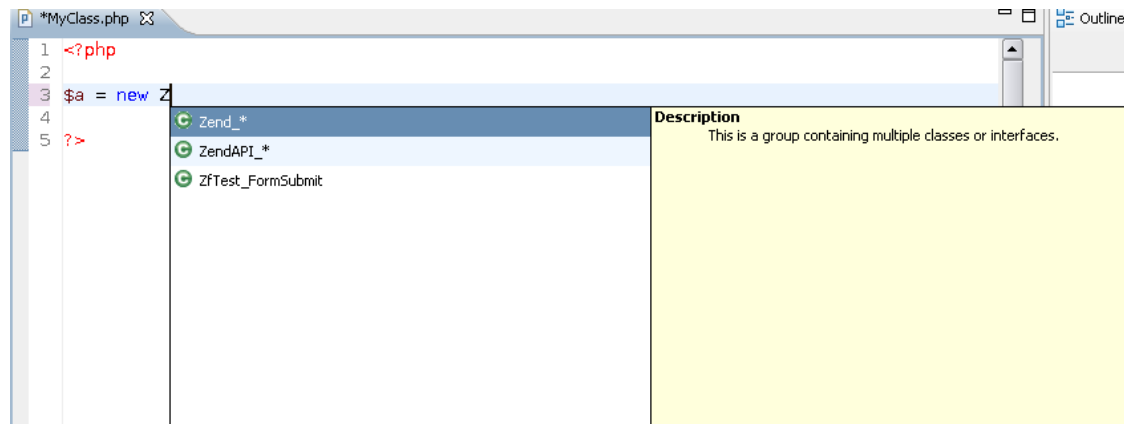
ZCAH → Zend\_Controller\_Action\_Helper\_AutoCompleter

ZHelpAuto → Zend\_Controller\_Action\_Helper\_AutoCompleter



# Code Assist Grouping

## Classes grouping:



The screenshot shows an IDE window titled '\*MyClass.php'. The code editor contains the following lines:

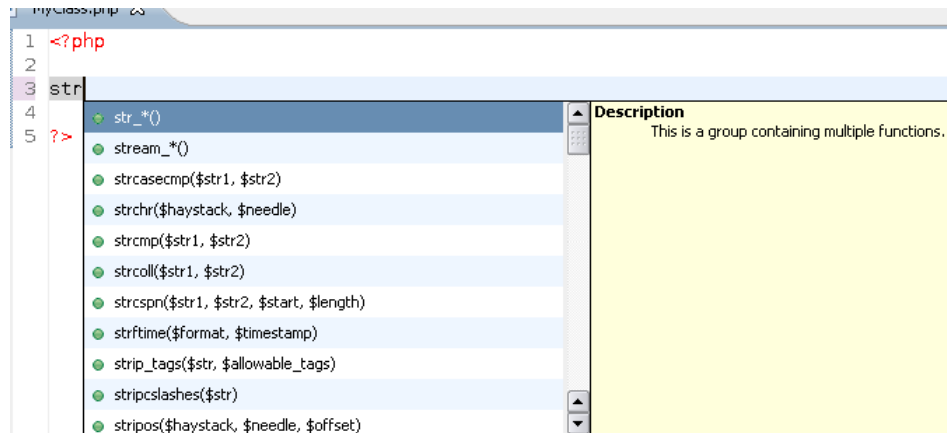
```
1 <?php
2
3 $a = new Z
4
5 ?>
```

A code completion dropdown menu is open, showing three items:

- Zend\_\*
- ZendAPI\_\*
- ZfTest\_FormSubmit

To the right of the dropdown is a 'Description' panel with the text: "This is a group containing multiple classes or interfaces."

## Methods grouping:



The screenshot shows an IDE window titled '\*MyClass.php'. The code editor contains the following lines:

```
1 <?php
2
3 str
4
5 ?>
```

A code completion dropdown menu is open, showing a list of string functions:

- str\_\*
- stream\_\*
- strcasecmp(\$str1, \$str2)
- strchr(\$haystack, \$needle)
- strcmp(\$str1, \$str2)
- strcoll(\$str1, \$str2)
- strcspn(\$str1, \$str2, \$start, \$length)
- strftime(\$format, \$timestamp)
- strip\_tags(\$str, \$allowable\_tags)
- stripslashes(\$str)
- stripos(\$haystack, \$needle, \$offset)

To the right of the dropdown is a 'Description' panel with the text: "This is a group containing multiple functions."

# Build Path / Include Path

## Include Path

type filter text

- Resource
- Build Path
- Builders
- Code Style
  - Include Path**
  - PHP Debug
  - PHP Interpreter
  - PHP Task Tags
- Project References
- Refactoring History
- Run/Debug Settings
- Save Actions

**Include Path**

Source Projects Libraries Order and Export

Build build path order and exported entries:  
(Exported entries are contributed to dependent projects)

- team
- PHP Language Library

Up  
Down  
Select All  
Deselect All

## Build Path

type filter text

- Resource
- Build Path**
- Builders
- Code Style
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  - PHP Task Tags
- Project References
- Refactoring History
- Run/Debug Settings

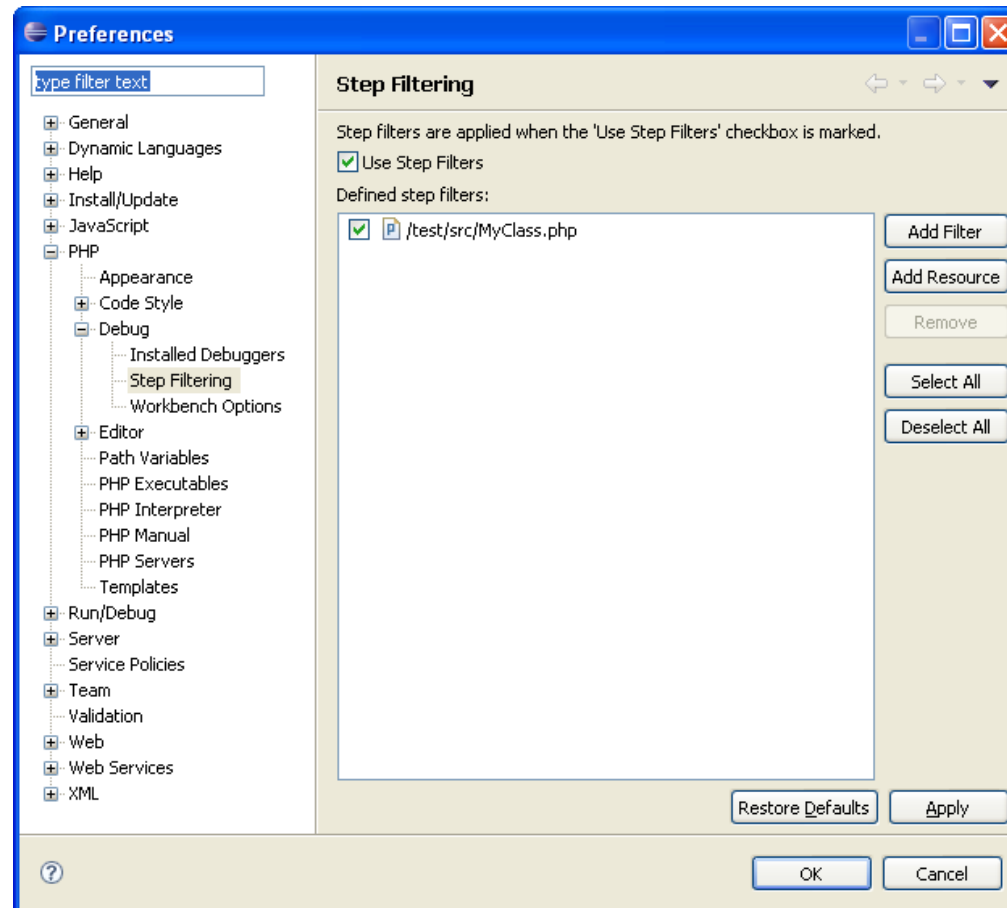
**Build Path**

Source folders on build path:

- team
  - Included: (All)
  - Excluded: application/default/views/scripts;/public; ;r

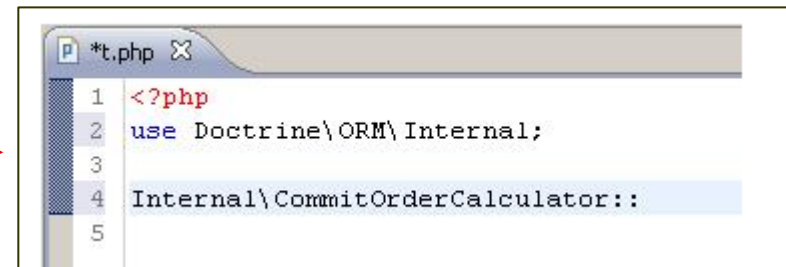
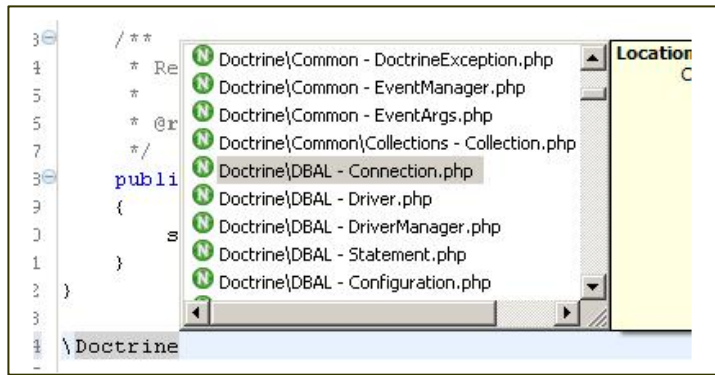
Add Folder...  
Link Source...  
Edit...  
Remove

# Debug - Step Filtering

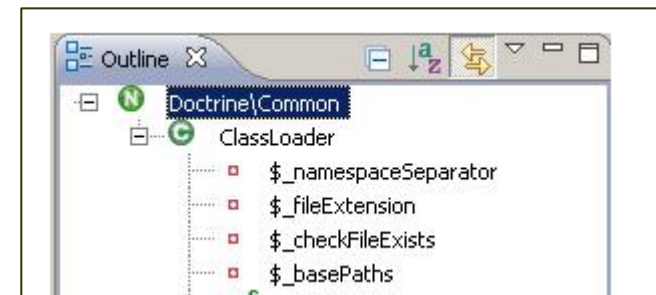
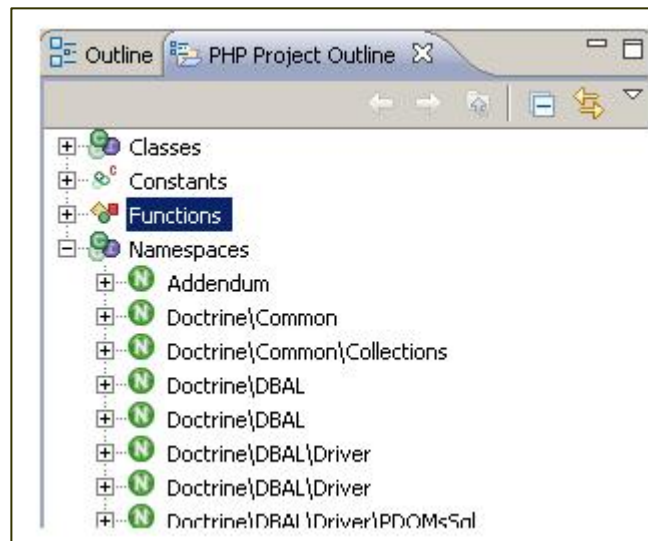


# PHP 5.3

## Namespace Code Assist



## Outline



# Zend Framework – Do things faster, be more productive

- **Simplicity, object oriented, best practices**
- **Secure, reliable, and modern web applications**
- **Demo:**
  - Customized project layout
  - Zend Tool CLI & Console
  - MVC view
  - Semantic awareness



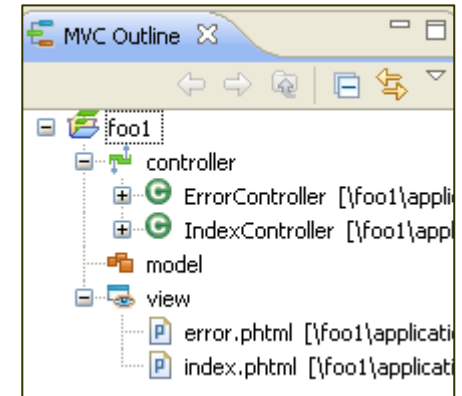
# Zend Framework – Do things faster, be more productive

## Project Layout

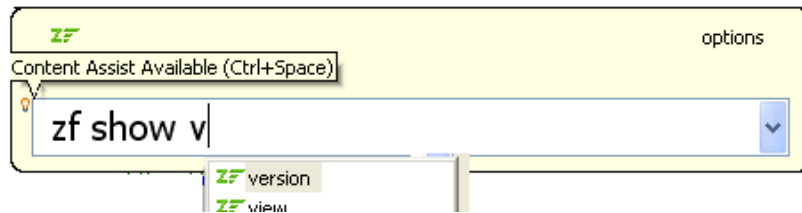
### Project Layout

- Zend Framework empty project
- Zend Framework default project structure
- Full featured Zend Framework and Dojo project

## MVC Diagram



## Zend Tool - CLI



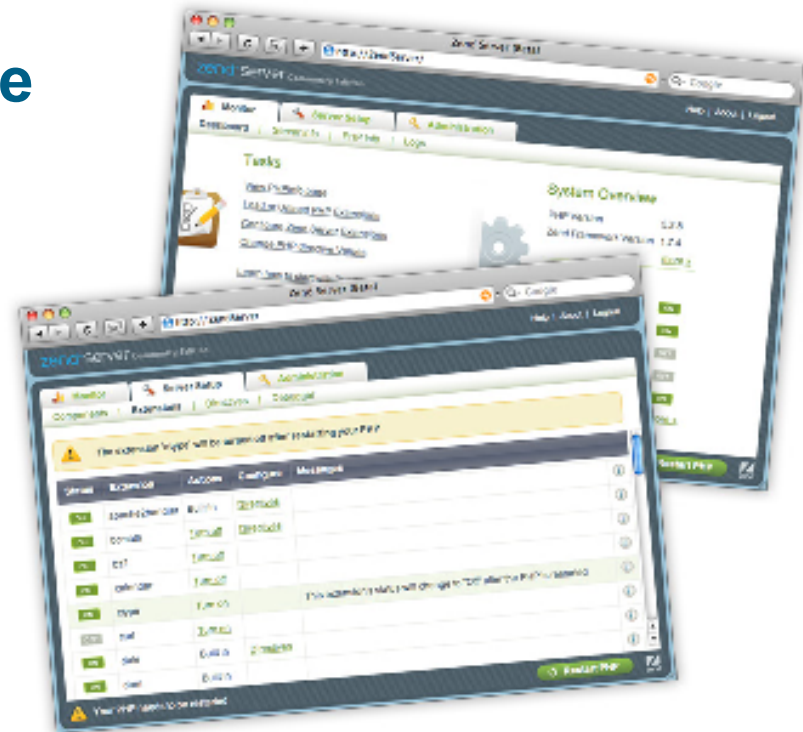
## Zend Tool – Console Output

```
Zend Tool
executing zf show version

C:\studio-7_0\runtime-New_configura
Zend Framework Version: 1.8.0
|
ok (took 0:18.156)
```

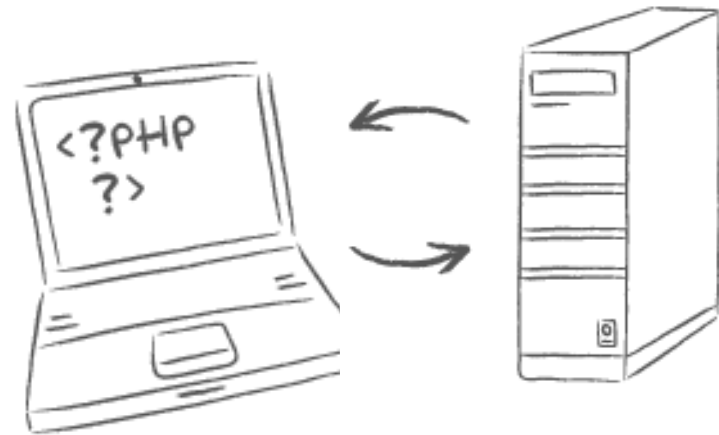
# Zend Server – Detecting & Resolving Application Problems

- **Complete PHP application stack**
- **Monitor and alert for possible problems**
- **Debug / Profile events**
- **Find and isolate root cause**
- **Deploy solution**
- **Zend Server CE – FREE**
- **Watch video - <http://tr.im/DetectResolveProblems>**



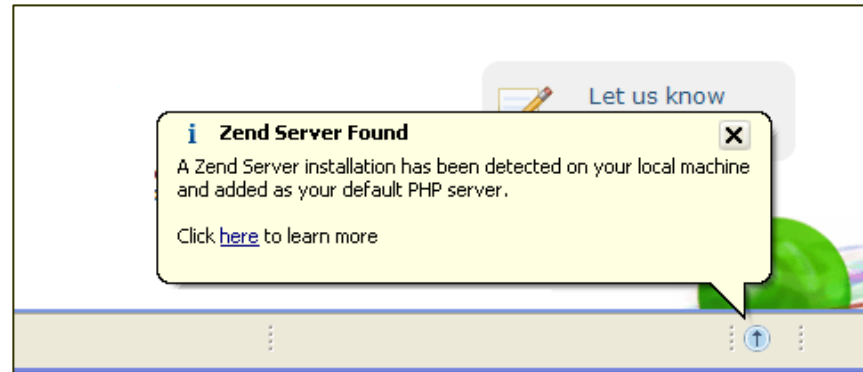
# Demo - Zend Server & Zend Studio Tight Integration

- **Auto detection of Zend Server**
- **Servers view**
- **Customize Zend Server preferences**
- **Create a project on Server**
- **Events List**
- **Export / Import Event**
- **Easy debug**

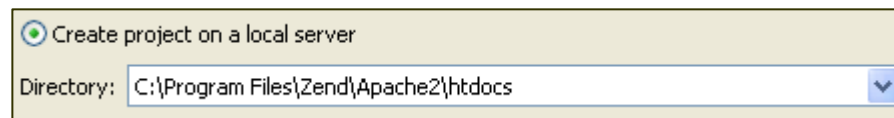


# Zend Server & Zend Studio Tight Integration

## Auto Detection



## Create Project on Server & Easy Debug



**Slide 20**

---

**c15**

This would be shown in the demo portion - no need for slide

christian.cheline, 6/29/2009

# Documentation - Enhanced Welcome Page

## Welcome to Zend Studio

[Product Homepage](#) ▶ [Watch Videos](#)

### 5 Ways to Get Started with Zend Studio

Check out five different methods of learning how to start working with Zend Studio.

### Advanced PHP Editing Features for Faster Coding

Learn about Zend Studio's PHP coding and editing features which make writing PHP faster and more accurate.

### Zend Framework Development

Learn how to quickly and easily create applications according to industry standard best practices using the Zend Framework.

### Connectivity and Configuration Management

Learn about Zend Studio's connectivity features such as working with databases, CVS, SVN and FTP.

### Developing and Debugging on Zend Server

Learn about Zend Server, Zend's complete, enterprise ready PHP Server, and how it integrates with Zend Studio to provide an optimal PHP Web application development and debugging environment.


### Tutorials

Follow step-by-step tutorials to learn how to use Zend Studio's main features.

### What's New?

See what new features are available in the latest version of Zend Studio.

[Let us know what you think](#)

\* To start using Studio, click the  icon in the Welcome tab in the top-left corner. You can always return to this screen by clicking on Help | Welcome from the Menu Bar.

## Advanced PHP Editing Features for Faster Coding

### Code Assist

The Code Assist feature enables the selection and insertion of existing code elements to complete partially entered code.

A list of possible code elements appears in relevant locations within your files according to the context of your cursor, which you can then select to be automatically entered into your code.

### Refactoring

The Refactoring feature allows you to easily rename and move PHP elements while ensuring that links between elements are maintained.

**Rename Resource**

- Change resource name
- Refactor name
- Update resource
- Update PHP
- Update code

### PHP Element Wizards

Quickly and easily create PHP items such as classes and interfaces with the complex hierarchy and include content using the New PHP item wizards.

**PHP Class**

Source Paths:

Class Name:

Modifiers:  class  interface

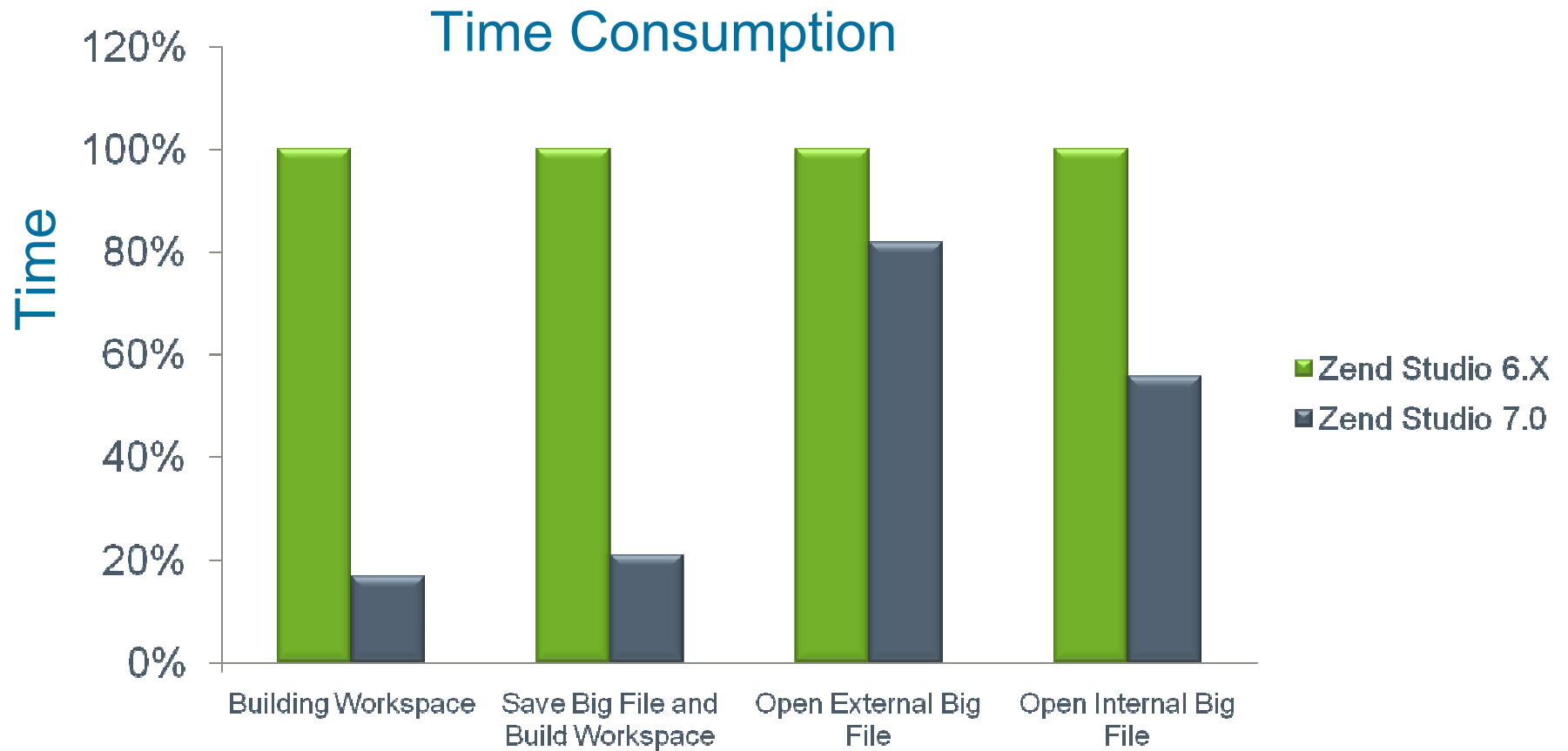
Superclass:

### Formatting Code

Studio can auto-format your code according to set standards in order to make it easily navigable and readable. You can configure your formatting preferences according to your requirements.

```
PHPDoc
<code></code>
<code></code>
<code></code>
// class
class Test {
    <code></code>
    <code></code>
}
```

# Better Performance



# What's Next?

- **Download Zend Studio 7 Beta!**  
[www.zend.com/products/studio/studio-7-beta/](http://www.zend.com/products/studio/studio-7-beta/)
- **Download Zend Server!**  
[www.zend.com/products/server/downloads](http://www.zend.com/products/server/downloads)

**BUY NOW**  
Zend Studio 6



**GET FREE**  
Zend Studio 7



\* When it's released

Q & A

**Questions?**



# THANKS FOR WATCHING!

[www.zend.com/studio](http://www.zend.com/studio)