

PHPStorm - Ultimate IDE

@emgiezet from 247.codes

Agenda

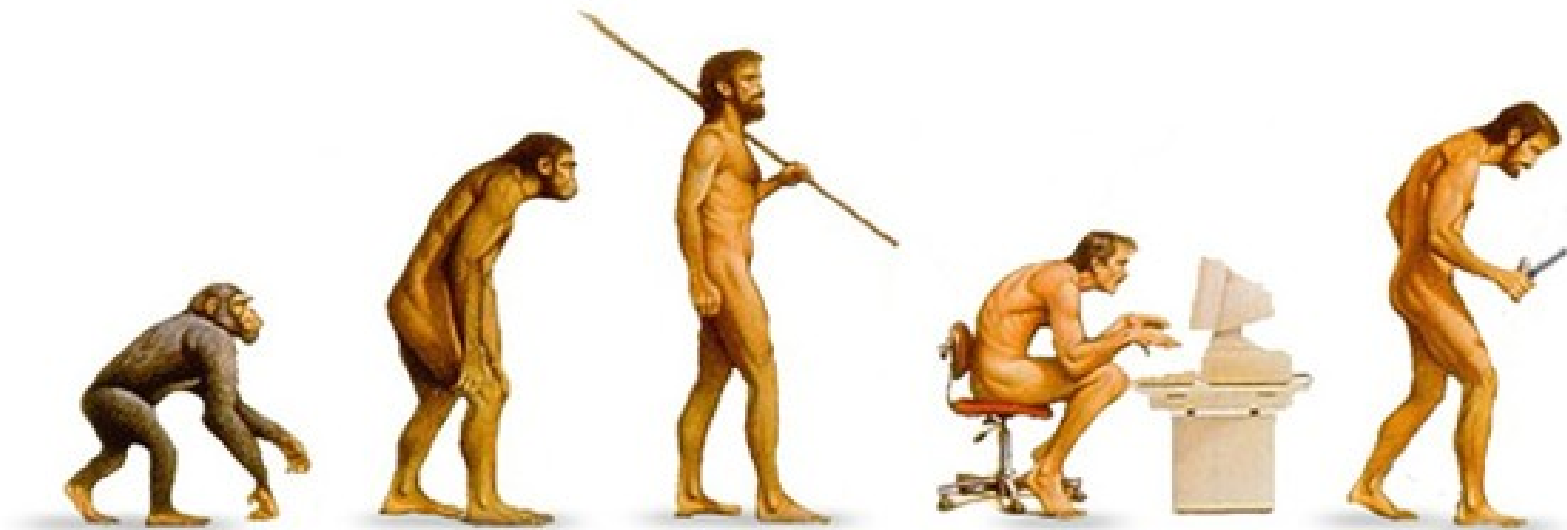
- About IDE
- Keyboard Shortcuts
- Xdebug
 - Configuration
 - Debugging
 - Keyboard Shortcuts
- VCS
 - Git integration
 - Configuration
 - Pull & Push
- PHPUnit
 - Configuration
 - Running Tests
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 - Task Flow
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- Database
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- Plugins

IDE

„An integrated development environment (IDE) or interactive development environment is a software application that provides comprehensive facilities to computer programmers for software development. An IDE normally consists of a source code editor, build automation tools and a debugger. Most modern IDEs have intelligent code completion.“

~ Wikipedia

Evolution From Text Editor To IDE

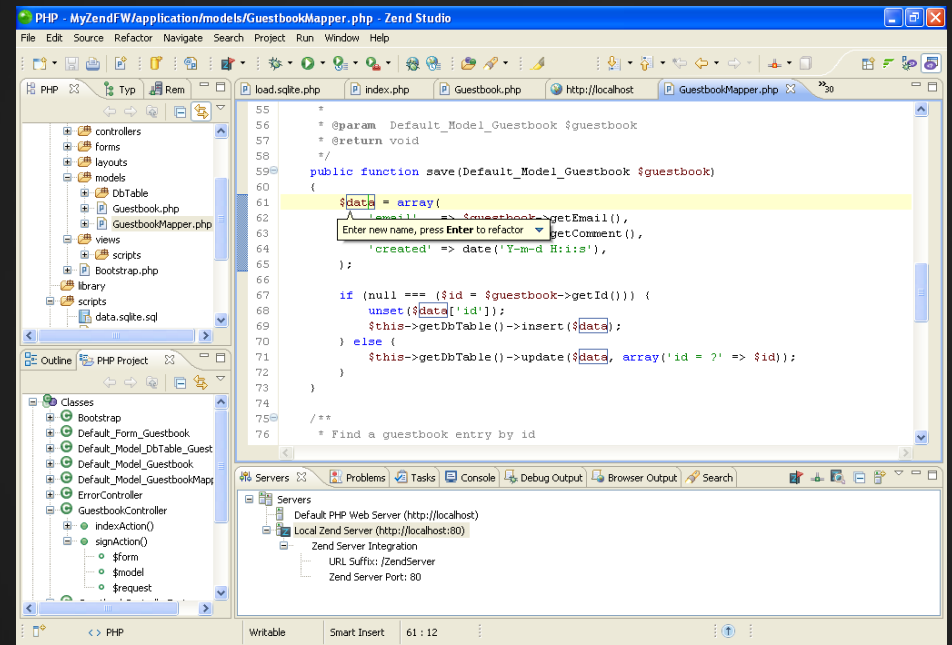
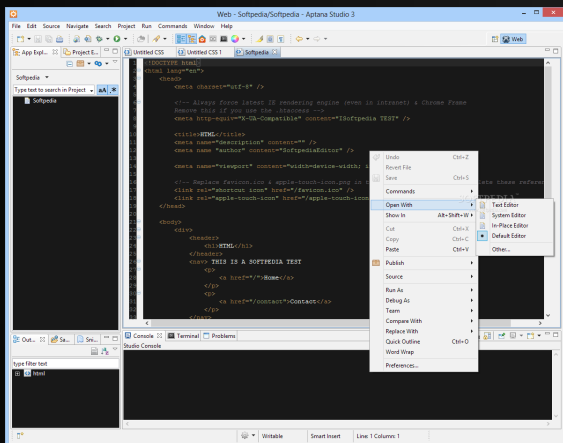
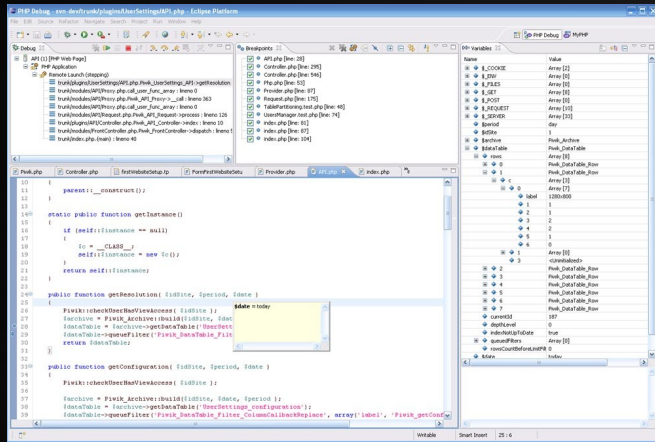


PHP IDE History [1990]

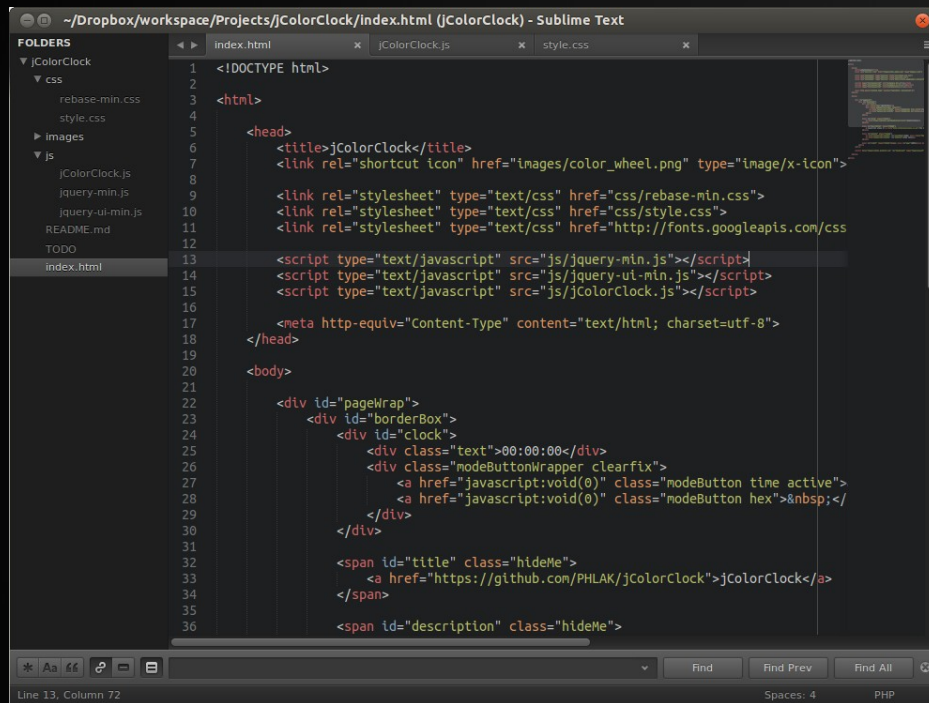
- vi, vim, nano

```
..... pathogen#split 1377 self.$step_height = self.$image.get_height() / self.$charnap.height
Bookmark: commands- pathogen#join 1378 if self.$preview_lines:
Bookmark: <name> pathogen#legacyjoin 1379 self.$step_height = min(self.$preview_lines, self.$step_height)
Bookmark: /toget <name> pathogen#uniq 1380 self.$step_width = self.$image.get_width() / self.$charnap.width
:RevealBookmark <name> pathogen#separator 1381 self.$step_x, self.$step_y = 0, 0
:OpenBookmark <name> pathogen#glob 1382 txt = "reducing source to %s colorsks..." % (
:ClearBookmarks [-names] pathogen#glob_directories 1383 len(self.$pal.colors), ('', (with dither))][self.$dither])
:ClearAllBookmarks pathogen#cycle_filetype 1384 self.$app.$msgline.set_string(txt)
: pathogen#is_disabled 1385 # stop here, let app tick and move to next step
.. (up a dir) pathogen#runtime_prepend_subdir 1386
y pathogen#runtime_append_all_bun 1387
+<$RECYCLE.BIN/ pathogen#helptags 1388
+<bla/ pathogen#runtime_findfile 1389
+<boost/ pathogen#fnameescape 1390
+<class/ pathogen#fnameescape 1391
+<codeblocks/ find 1392
+<chake28/ findcomplete 1393
+<H/ class 1394
+<bin/ Inconv.py (D:\Fo\edscii_alpha4) 1395
+<doc/ LabPalette 1396
+<include/ StringCharNap 1397
+<lib/ StringChar 1398
+<libexec/ ImageConverter 1399
+<mingw32/ 1400
+<msys/ member 1401
+<share/ __init__ [LabPalette] 57
+<var/ closest_color [LabPalette] 57
+<cache/ rgb_colors [LabPalette] 58
+<mingw/get/ dominant_colors [LabPalette] 59
+<dest/ __init__ [StringCharNap] 60
+<packages/ __init__ [StringChar] 61
+<gdb-7.5-1-m/ __repr__ [StringChar] 62
+<make-3.02.9/ get_opaque_pixels [StringChar] 63
+<lib/ __cmp__ [StringChar] 64
+<log/ __init__ [ImageConverter] 65
+<manifest-0-030-38/ tick [ImageConverter] 66
+<manifest-0-030-b9/ prepare_image [ImageConverter] 67
+<manifest-0-030-cb/ color_reduce [ImageConverter] 68
+<manifest-0-032-2f/ convert_step [ImageConverter] 68
+<manifest-0-032-o1/ get_block [ImageConverter] 69
+<manifest-0-033-91/ best_fit_char [ImageConverter] 70
+<manifest-0-033-c3/ block_diff [ImageConverter] 71
+<manifest-0-034-bb/ finished [ImageConverter] 72
+<manifest-0-034-c1/ abort [ImageConverter] 73
+<manifest-0-034-fb/ function 74
+<manifest-0-034-fc/ rgb_to_xyz 76
+<manifest-0-034-fe/ xyz_to_lab 77
+<manifest-0-035-27/ lab_to_xyz 78
+<manifest-0-035-45/ xyz_to_rgb 79
+<manifest-0-035-6b/ rgb_to_lab 79
+<manifest-0-035-a5/ lab_to_rgb 80
+<manifest-0-035-df/ color_diff 81
+<manifest-0-036-01/ clamp 82
+<manifest-0-036-09/ color_add_scaler 83
+<manifest-0-036-52/ color_sub 84
D:\Fo\edscii_alpha4 >_Tag_List_ 72% < | 70:5 \V\vim73\autoload\pathogen.vim 24% < | 61:9
6492: Not an editor command: vvv
```

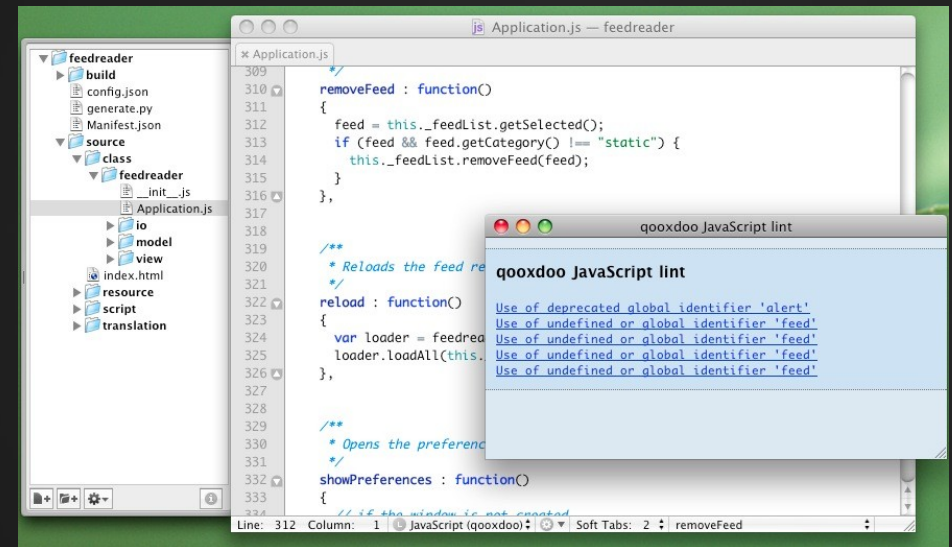

PHP IDE History [2000+]



PHP IDE History [Lightweight Era]



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>jColorClock</title>
5 <link rel="shortcut icon" href="images/color_wheel.png" type="image/x-icon">
6 <link rel="stylesheet" type="text/css" href="css/rebase-min.css">
7 <link rel="stylesheet" type="text/css" href="css/style.css">
8 <link rel="stylesheet" type="text/css" href="http://fonts.googleapis.com/css
9 <script type="text/javascript" src="js/jquery-min.js"></script>
10 <script type="text/javascript" src="js/jquery-ui-min.js"></script>
11 <script type="text/javascript" src="js/jColorClock.js"></script>
12 </head>
13 <meta http-equiv="Content-Type" content="text/html; charset=utf-8">
14 </head>
15 <body>
16 <div id="pageWrap">
17 <div id="borderBox">
18 <div id="clock">
19 <div class="text">00:00:00</div>
20 <div class="nodeButtonWrapper clearfix">
21 <a href="javascript:void(0)" class="nodeButton time active">
22 <a href="javascript:void(0)" class="nodeButton hex">&nbsp;&nbsp;&nbsp;</a>
23 </div>
24 </div>
25 <span id="title" class="hideMe">
26 <a href="https://github.com/PHLAK/jColorClock">jColorClock</a>
27 </span>
28 <span id="description" class="hideMe">
```



```
309 removeFeed : function()
310 {
311   feed = this._feedList.getSelected();
312   if (feed && feed.getCategory() !== "static") {
313     this._feedList.removeFeed(feed);
314   }
315 },
316
317
318
319
320 /**
321  * Reloads the feed re
322  */
323 reload : function()
324 {
325   var loader = feedrea
326   loader.loadAll(this
327 },
328
329
330 /**
331  * Opens the preferenc
332  */
333 showPreferences : function()
334 {
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```


PHPStorm

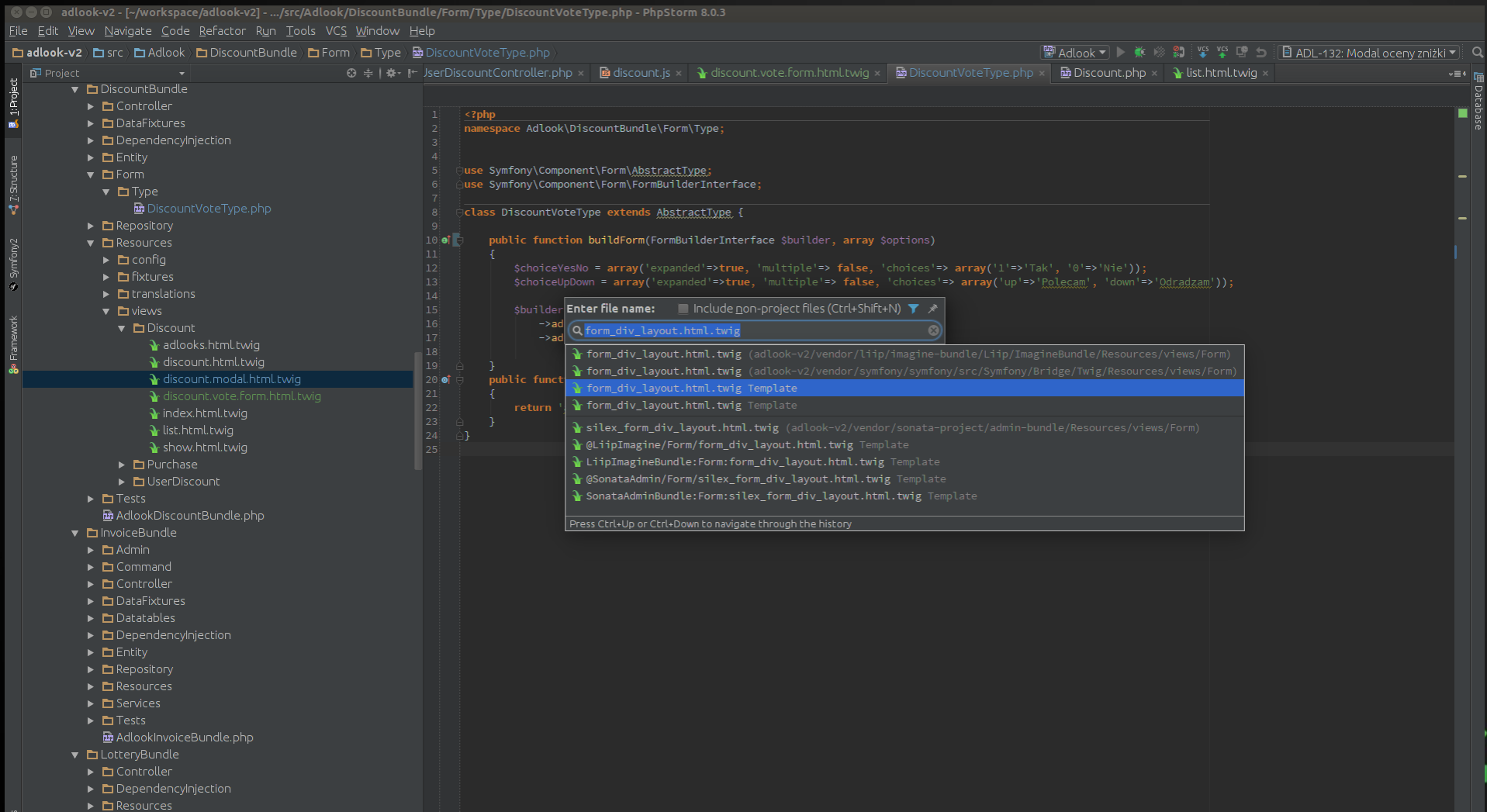
JetBrains PhpStorm is a commercial, cross-platform IDE for PHP[1] built on JetBrains' IntelliJ IDEA platform.

PhpStorm provides an editor for PHP, HTML and JavaScript with on-the-fly code analysis, error prevention and automated refactorings for PHP and JavaScript code. PhpStorm's code completion supports PHP 5.3, 5.4, 5.5 & 5.6 (modern and legacy projects), including generators, coroutines, the finally keyword, list in foreach, namespaces, closures, traits and short array syntax. It includes a full-fledged SQL editor with editable query results.

~ Wikipedia

PHPStorm Keyboard Shortcuts

- [Ctrl] + [Alt] + space



PHPStorm Keyboard Shortcuts

- [Ctrl]+[Alt]+[Shift]+j

```
class DiscountVoteType extends AbstractType {  
  
    public function buildForm(FormBuilderInterface $builder, array $options)  
    {  
        $choiceYesNo = array('expanded'=>true, 'multiple'=> false, 'choices'=> array('1'=  
        $choiceUpDown = array('expanded'=>true, 'multiple'=> false, 'choices'=> array('up  
  
        $builder->add('used', 'choice', $choiceYesNo)  
            ->add('vote', 'choice', $choiceUpDown)  
            ->add('comment', 'textarea');  
    }  
  
    public function getName()  
    {  
        return 'adlook_discount_discount_vote_type';  
    }  
}
```

PHPStorm Keyboard Shortcuts

- Go to Next Error
 - [F2]
- Go to Class
 - [Ctrl]+[N]
- Change Tab
 - [Alt] + [Right Arrow]
- Go to line
 - [Ctrl] + [G]
- Next Method
 - [Alt] + [Up]/[Down]
-

VCS Integration

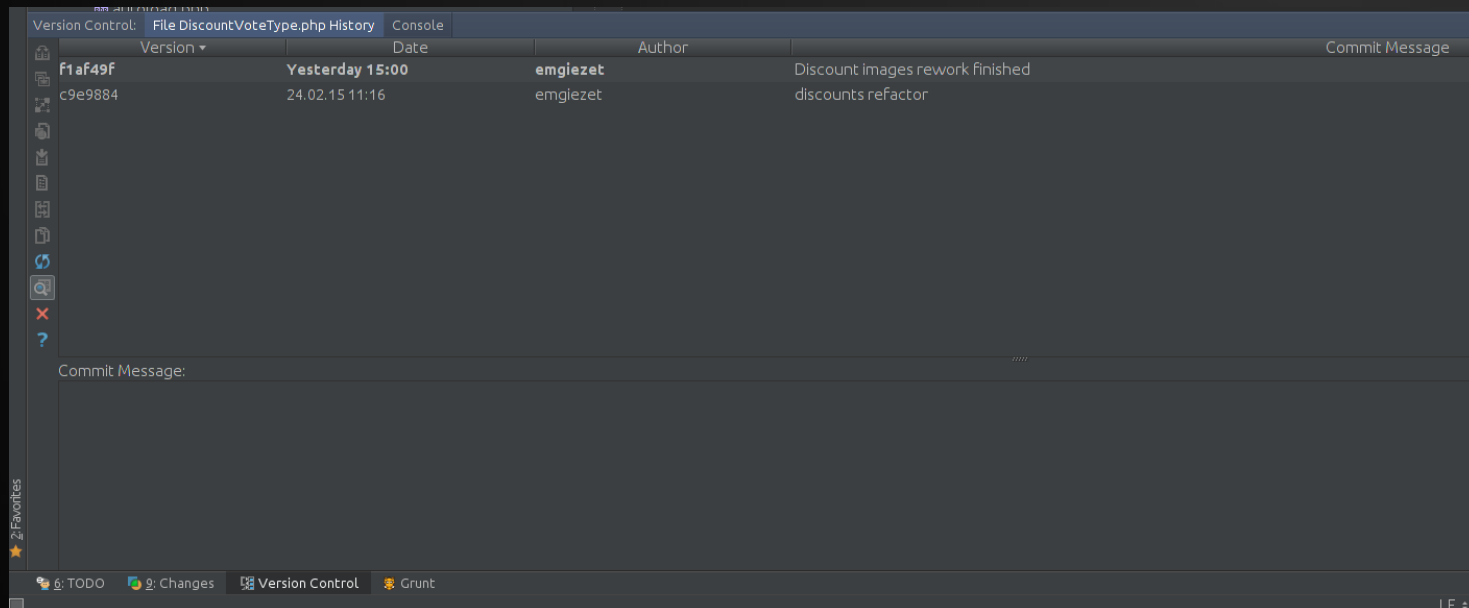
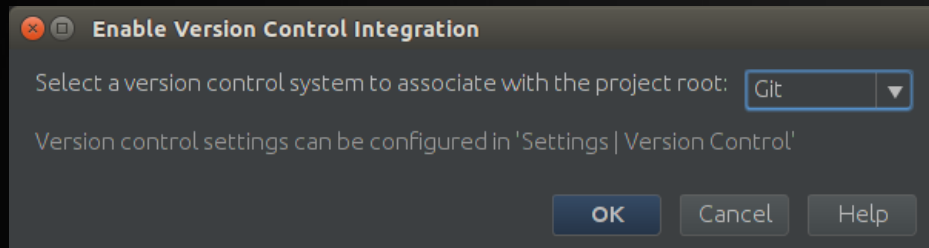
The screenshot shows an IDE window with two PHP files open. The left file, `CrawlNepalCommand.php`, contains a `crawlProductInfo` function that processes HTML content to extract product information like image source, price, and name. The right file, `PartnerRequestController.php`, shows a `requestFormAction` method that handles form submissions, including validation and sending partner requests.

A context menu titled "VCS Operations" is overlaid on the code, listing the following steps for integration:

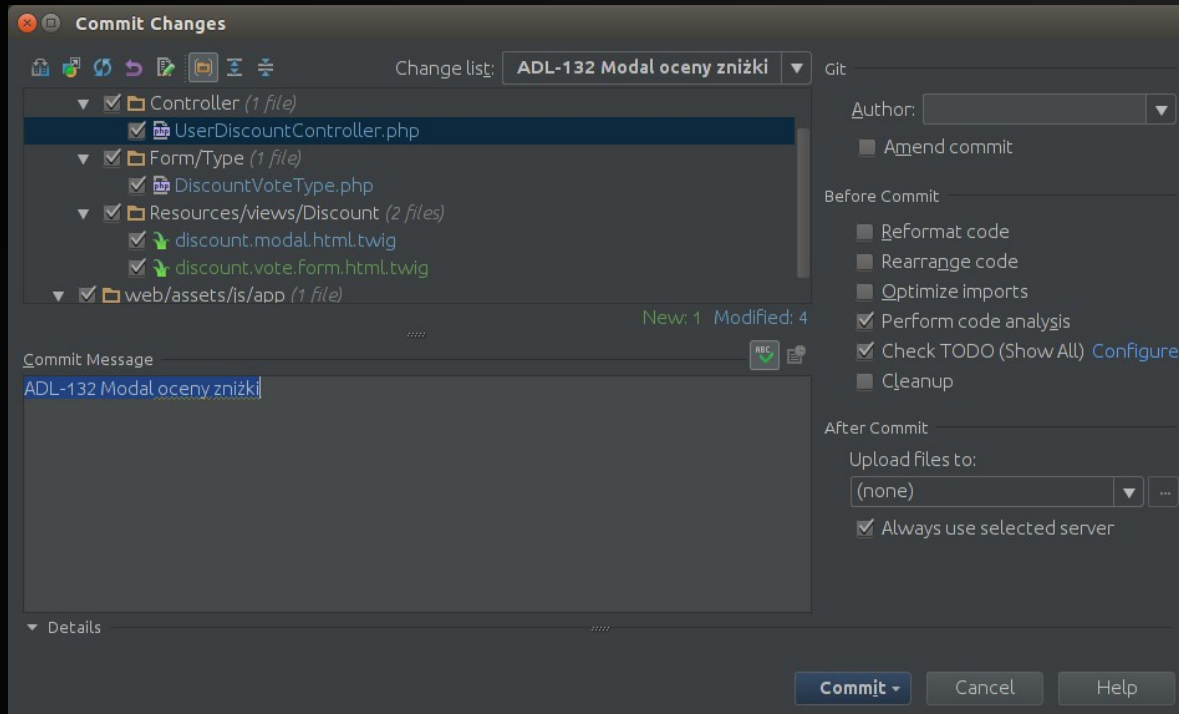
1. Import into CVS...
2. Create Git Repository...
3. Import into Subversion...
4. Create Mercurial Repository
5. Enable Version Control Integration.
6. Checkout from Version Control
7. Show History
8. Put Label...

The menu also includes a "Local History" section. The IDE interface includes a sidebar with "Project", "Structure", "Symfony2", and "Framework" views, and a terminal at the bottom showing the current directory as `~/workspace/crawlers`.

VCS Configuration



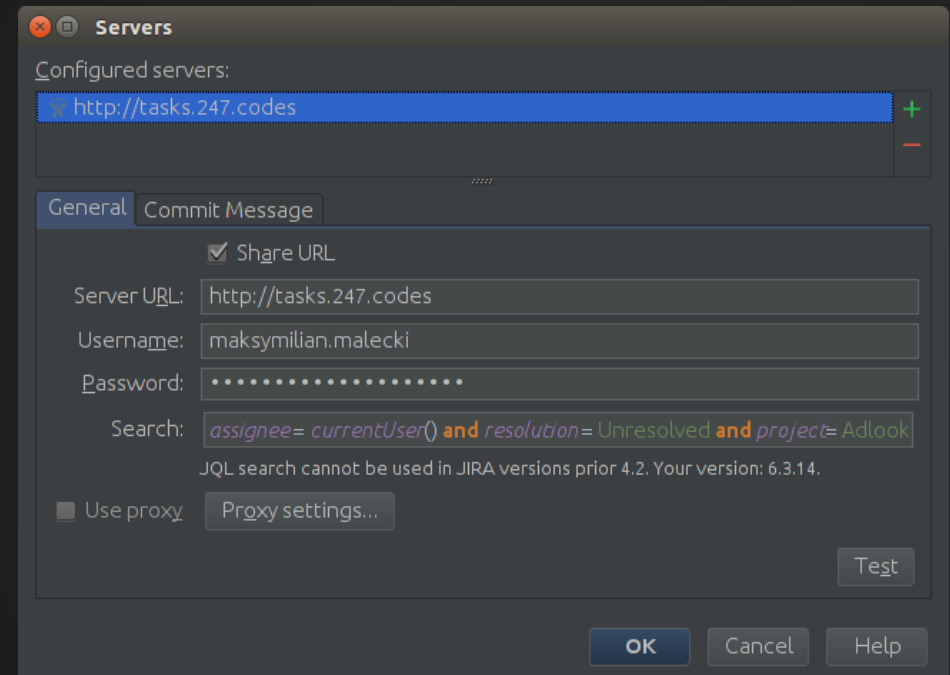
VCS Pull & Push



- [Ctrl] + [K] - commit
- [Ctrl] + [T] - update

Tasks & Contexts Jira Configuration

- Tools
 - Tasks & Contexts
 - Configure Servers



The screenshot shows the 'Servers' configuration dialog box in Jira. At the top, there is a list of 'Configured servers' with one entry: 'http://tasks.247.codes'. Below this, the 'General' tab is active, showing the following fields and options:

- Share URL
- Server URL: http://tasks.247.codes
- Username: maksymilian.malecki
- Password: [masked]
- Search: `assignee= currentUser() and resolution= Unresolved and project= Adlook`
- JQL search cannot be used in JIRA versions prior 4.2. Your version: 6.3.14.
- Use proxy [Proxy settings...](#)
- [Test](#)

At the bottom of the dialog, there are three buttons: 'OK', 'Cancel', and 'Help'.

Jira Open Taks

- [Ctrl]+[Shift]+N

The screenshot shows an IDE with a code editor on the right and a file explorer on the left. The code editor displays PHP code for a class `DiscountVoteType` extending `AbstractType`. The code includes methods `buildForm` and `return`. A Jira task selection popup is overlaid on the code, titled "Enter task name:". The popup includes a search bar and a list of tasks. The task "ADL-132: Modal oceny zniżki" is selected. The popup also includes a checkbox for "Include closed tasks (Alt+Shift+N)" and instructions at the bottom: "Press SHIFT to merge with current context" and "Pressing Ctrl+Q would show task description and comments".

```
8 class DiscountVoteType extends AbstractType {
9
10 public function buildForm(FormBuilderInterface $builder, array $options)
11 {
12     $choiceYesNo = array('expanded'=>true, 'multiple'=> false, 'choices'=> array('1'=>'Tak', '0'=>'Nie'));
13     $choiceUpDown = array('expanded'=>true, 'multiple'=> false, 'choices'=> array('up'=>'Polecam', 'down'=>'Odradzam'));
14
15     $builder->add
16     ->add('vo
17     ->add('co
18
19 }
20 public function
21 {
22     return 'adloc
23 }
24
25 }
```

What Open Task Mean?

- Create git branch with name of task
- Open „new” instance of a PhpStorm with a task context (when task is new it don't have any open files)

Switch Task

- Stashes changes from other open task
- Open new context

XDebug

```
zend_extension=/usr/lib/php5/20121212/xdebug.so
```

```
xdebug.cli_color=1
```

```
xdebug.overload_var_dump=1
```

```
xdebug.max_nesting_level = 400
```

```
xdebug.remote_enable=1
```

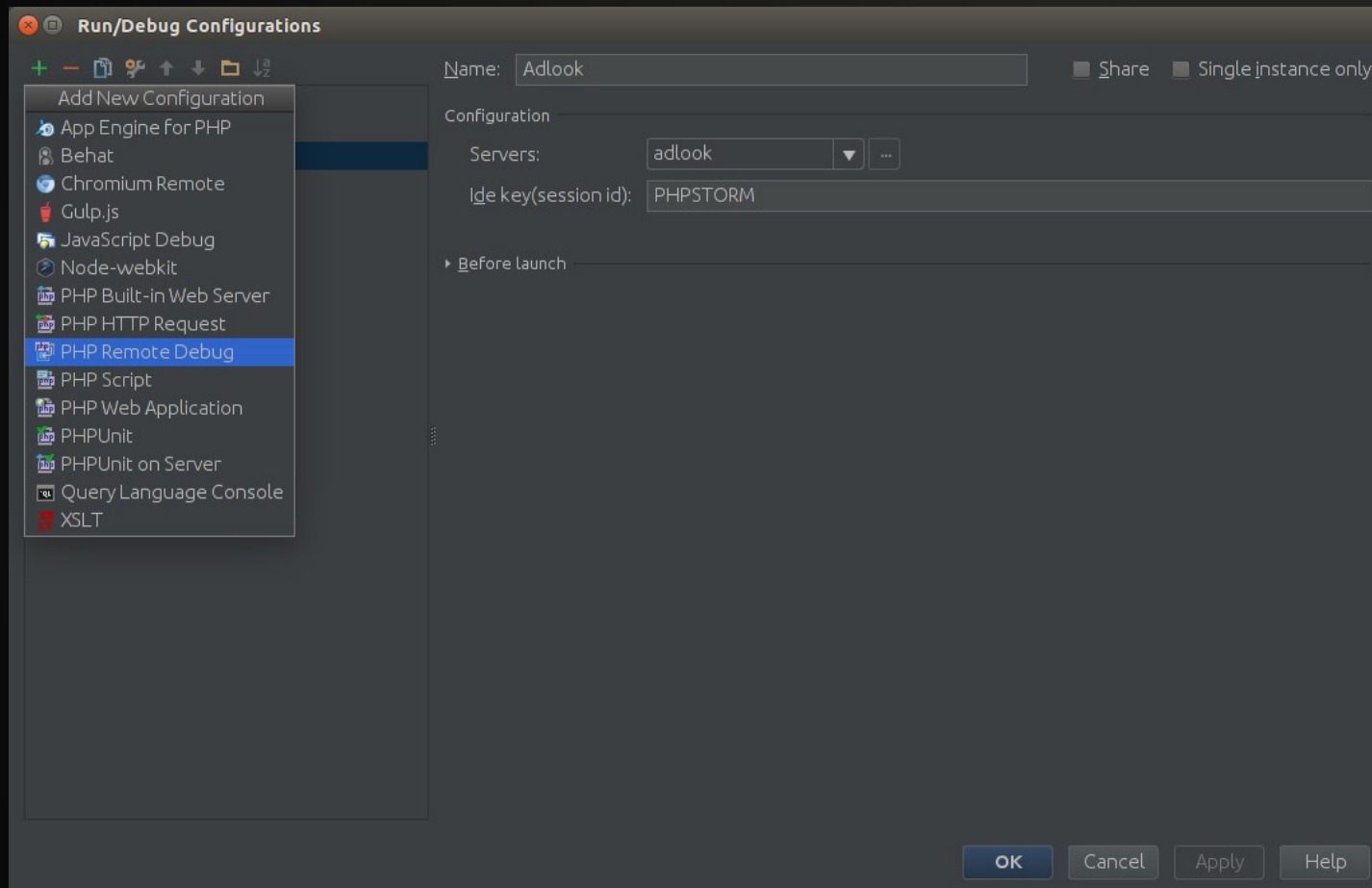
```
xdebug.remote_port=9000
```

```
xdebug.profiler_enable=0
```

```
xdebug.profiler_enable_trigger=1
```

```
xdebug.profiler_output_dir=/tmp
```

PHPStorm Configuration



Xdebug Debugging





- [Shift]+[F9]

The screenshot displays an IDE interface with the following components:

- Project Explorer:** Shows a project structure for 'adlook-v2' with folders like 'Controller', 'Form', 'Repository', and 'views'. The 'DiscountVoteType.php' file is selected under 'views/Discount'.
- Code Editor:** Displays the PHP code for 'DiscountVoteType.php'. The code includes namespace declarations, class inheritance from 'AbstractType', and methods 'buildForm' and 'getName'. The 'buildForm' method is currently selected and highlighted.
- Debugger:** Located at the bottom, it shows a 'Waiting for Incoming connection with IDE key 'PHPSTORM'' message. The 'Frames' pane is empty with the text 'Frames are not available', and the 'Watches' pane is empty with 'No watches'.
- Terminal:** At the bottom right, it shows the command 'NoClassDefFoundError: com/jetbrains/twig/TwigFile (today 11:55)'.

xDebug Debugging

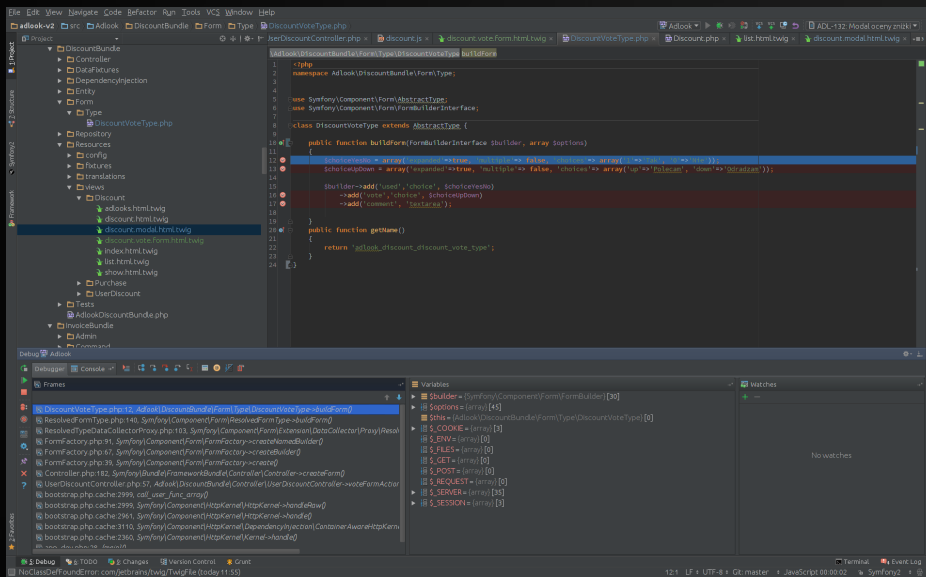
The screenshot shows a Mozilla Firefox browser window displaying the Adlook.pl website. The browser's address bar shows the URL `adlook.loc/user/discount/my#`. The website's navigation menu includes links for **ADLOOK**, **CZYM JEST ADLOOK?**, **ZNIŻKI**, **KONKURSY**, **KONTAKT**, and a notification for **142 AD**. The user is logged in as `user@adlook.pl`. The main content area displays a list of discounts under the heading **ZNALEZIONO: 5**. The table below shows the details of these discounts:

Zaznacz:	Foto:	Nazwa zniżki:	Data:	Status:	Ocena:	Cena zniżki:	Pobierz ponownie
<input type="checkbox"/>		Zniżka testowa 1	25.02.2015	Zrealizowana	OCEN ZNIŻKĘ	12 AD + 123 zł	Pobierz Drukuj
<input type="checkbox"/>		Zniżka testowa 2	25.02.2015	Zrealizowana	OCEN ZNIŻKĘ	123 AD + 21 zł	Pobierz Drukuj
<input type="checkbox"/>		Zniżka testowa 4	25.02.2015	Zrealizowana	OCEN ZNIŻKĘ	124 AD + 666 zł	Pobierz Drukuj
<input type="checkbox"/>		Zniżka testowa 12	25.02.2015	Zrealizowana	OCEN ZNIŻKĘ	123 AD + 436 zł	Pobierz

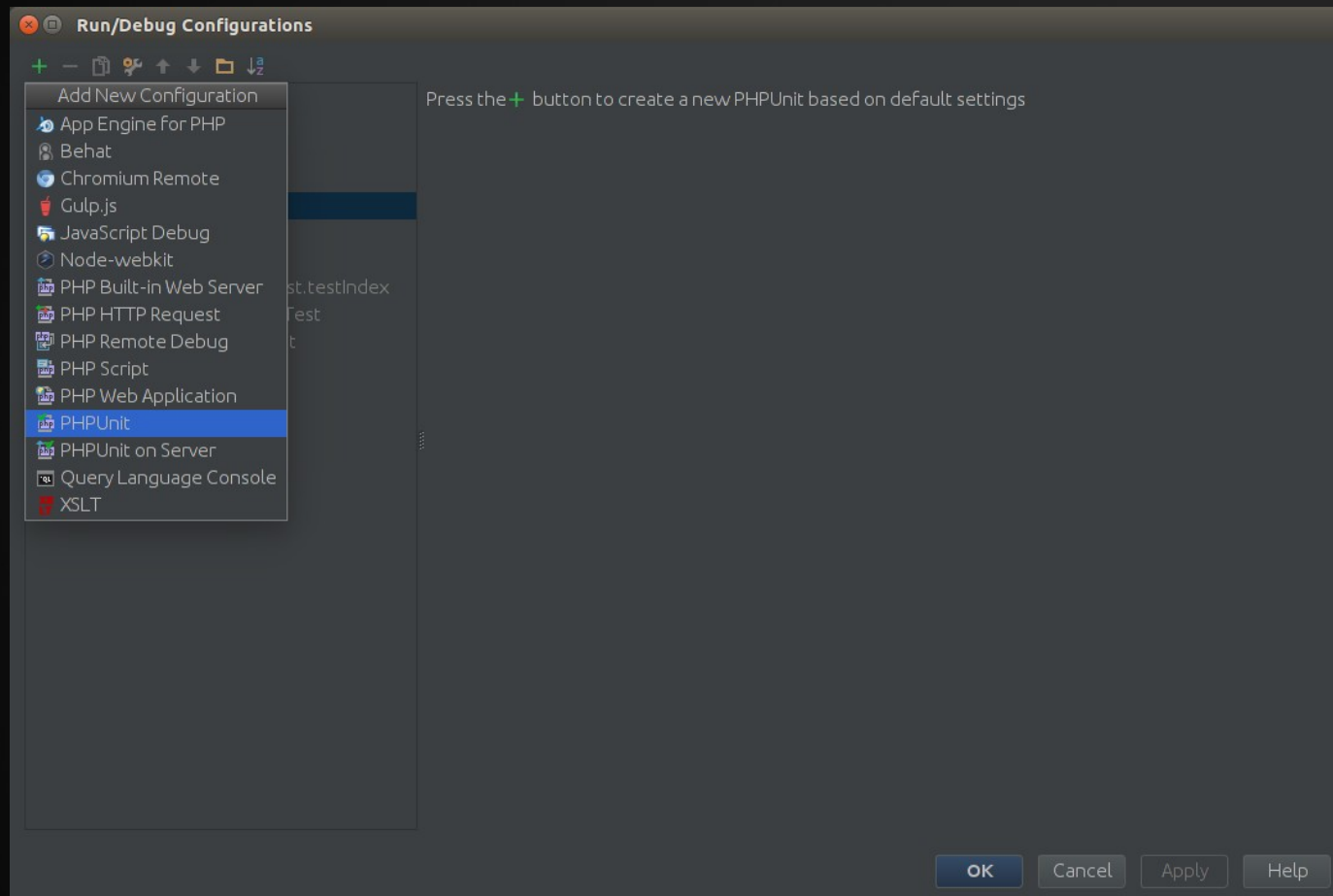
The bottom status bar of the browser displays xDebug debugging information: `2.5.9 php 303793 200 UserDiscountController::myAction 529 ms 24.2 MB 0`. The user is logged in as `user@adlook.pl` and there are 11 notifications and 0 blocks.

xDebug Debugging

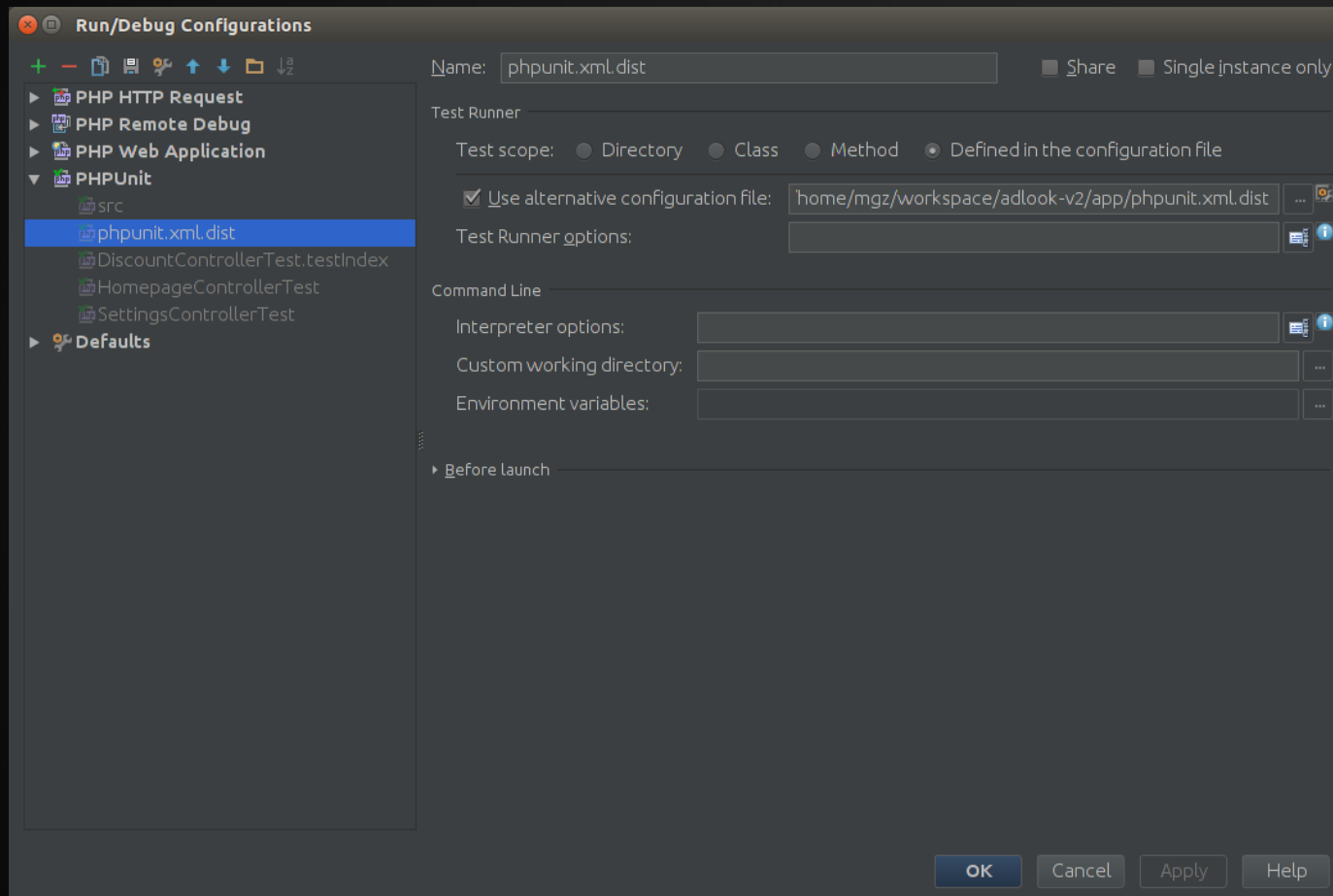
- [F8] – Step over
- [F7] – Step into
- [F9] – Resume Program
- [Ctrl] + [F8] – Toggle Breakpoint



PHPUnit



PHPUnit



PHPUnit

```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <!-- http://phpunit.de/manual/4.1/en/appendixes.configuration.html -->
4 <phpunit xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
5         xsi:noNamespaceSchemaLocation="http://schema.phpunit.de/4.1/phpunit.xsd"
6         backupGlobals="false"
7         colors="true"
8         bootstrap="bootstrap.php.cache"
9     >
10     <testsuites>
11         <testsuite name="Project Test Suite">
12             <directory>../src/*/*Bundle/Tests</directory>
13             <directory>../src/*/Bundle/*Bundle/Tests</directory>
14         </testsuite>
15     </testsuites>
16
17     <!--
18     <php>
19         <server name="KERNEL_DIR" value="/path/to/your/app/" />
20     </php>
21     -->
22
23     <filter>
24         <whitelist>
25             <directory>../src</directory>
26             <exclude>
27                 <directory>../src/*/*Bundle/Resources</directory>
28                 <directory>../src/*/*Bundle/Tests</directory>
29                 <directory>../src/*/Bundle/*Bundle/Resources</directory>
30                 <directory>../src/*/Bundle/*Bundle/Tests</directory>
31             </exclude>
32         </whitelist>
33     </filter>
34 </phpunit>
35
```

PHPUnit

The screenshot displays an IDE interface with the following components:

- Project Explorer:** Shows the project structure for 'adlook-v2', including folders like 'app', 'cache', 'config', and 'Resources'.
- Code Editor:** Displays the PHP file 'DiscountVoteType.php' with the following code:

```
<?php
namespace Adlook\DiscountBundle\Form\Type;

use Symfony\Component\Form\AbstractType;
use Symfony\Component\Form\FormBuilderInterface;

class DiscountVoteType extends AbstractType {

    public function buildForm(FormBuilderInterface $builder, array $options)
    {
        $choiceYesNo = array('expanded'=>true, 'multiple'=> false, 'choices'=> array('1'=>'Tak', '0'=>'Nie'));
        $choiceUpDown = array('expanded'=>true, 'multiple'=> false, 'choices'=> array('up'=>'Policzam', 'down'=>'Odradzam'));

        $builder->add('used', 'choice', $choiceYesNo)
            ->add('vote', 'choice', $choiceUpDown)
            ->add('comment', 'textarea');
    }

    public function getName()
    {
        return 'adlook_discount_vote_type';
    }
}
```
- Test Results Panel:** Shows a summary of test results: 'Done: 71 of 71 Failed: 8 (49.818 s)'. Below this, a list of failed tests is shown, each with a message: 'Failed asserting that false is true.' and the corresponding file path and line number.
- Run Panel:** Shows the execution of 'phpunit.xml.dist' with the following output:

```
/usr/bin/php /tmp/ide-phpunit.php --configuration /home/mgz/workspace/adlook-v2/app/phpunit.xml.dist
Testing started at 13:16 ...
PHP Warning: Module 'mongo' already loaded in Unknown on line 0
PHPUnit 3.7.28 by Sebastian Bergmann.

Configuration read from /home/mgz/workspace/adlook-v2/app/phpunit.xml.dist

Failed asserting that false is true.
/home/mgz/workspace/adlook-v2/src/Adlook/AdminBundle/Tests/Controller/CategoryAdminControllerTest.php:39

Failed asserting that false is true.
/home/mgz/workspace/adlook-v2/src/Adlook/AdminBundle/Tests/Controller/DiscountAdminControllerTest.php:40

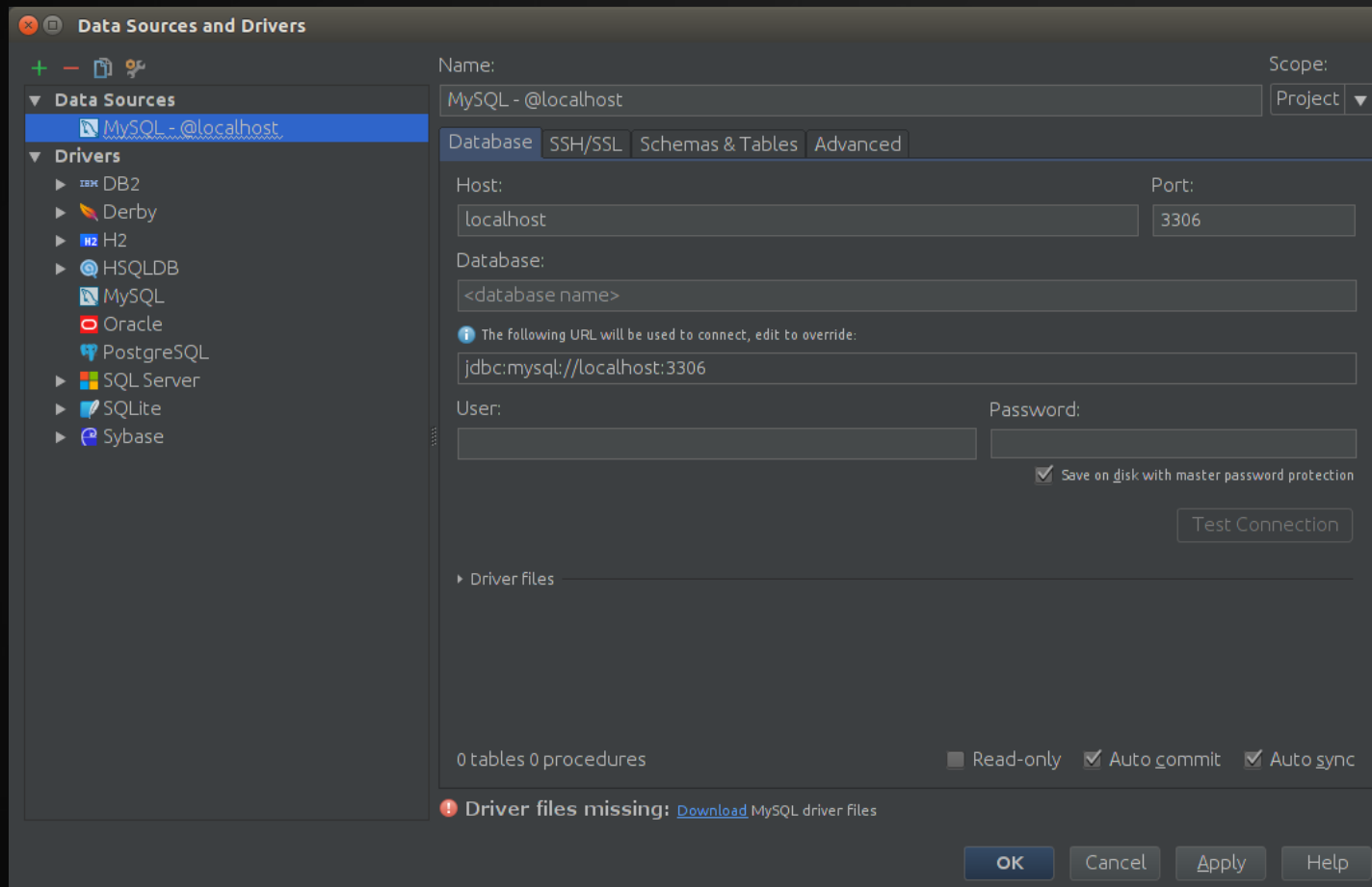
Failed asserting that false is true.
/home/mgz/workspace/adlook-v2/src/Adlook/AdminBundle/Tests/Controller/PageAdminControllerTest.php:30

Failed asserting that false is true.
/home/mgz/workspace/adlook-v2/src/Adlook/AdminBundle/Tests/Controller/PartnerAdminControllerTest.php:39

Failed asserting that false is true.
/home/mgz/workspace/adlook-v2/src/Adlook/AdminBundle/Tests/Controller/PartnerCommentAdminControllerTest.php:30

Failed asserting that false is true.
/home/mgz/workspace/adlook-v2/src/Adlook/AdminBundle/Tests/Controller/PartnerRequestAdminControllerTest.php:30
```

Database



Database Usage

The screenshot displays an IDE interface with a project structure on the left, a central query result table, and a database schema tree on the right.

Project Structure (Left):

- parameters.yml.dist
- routing.yml
- routing_dev.yml
- security.yml
- sonata.yml
- vich.yml
- logs
- Resources
 - htaccess
 - AppCache.php
 - AppKernel.php
 - autoload.php
 - bootstrap.php.cache
 - check.php
 - console
 - phpunit.xml.dist
 - SymfonyRequirements.php
- backups
- bin
- node_modules
- src
 - Adlook
 - AccountBundle
 - Controller
 - DataFixtures
 - DependencyInjection
 - Entity
 - Repository
 - Resources
 - Services
 - Tests
 - Twig
 - AdlookAccountBundle.php
 - AdminBundle
 - Admin
 - Block
 - Controller
 - DependencyInjection
 - Filter
 - Form
 - Resources
 - Tests
 - AdlookAdminBundle.php
 - AdvertiserBundle
 - Admin
 - Controller
 - DataFixtures
 - DependencyInjection

Database Query Result (Center):

#	id	name	headline	slug	price	created_at (yyyy-MM-dd HH:mm:ss)
1	31	t-shirt1	Test tshirt dude	t-shirt1	12.00	2015-01-14 15:44:39
2	32	t-shirt2	Test tshirt chick	t-shirt2	11.00	2015-01-14 15:44:39
3	33	t-shirt3	Test tshirt dude	t-shirt3	12.00	2015-01-14 15:44:39
4	34	t-shirt4	Test tshirt chick	t-shirt4	11.00	2015-01-14 15:44:39
5	35	t-shirt5	Test tshirt dude	t-shirt5	12.00	2015-01-14 15:44:39
6	36	t-shirt6	Test tshirt chick	t-shirt6	11.00	2015-01-14 15:44:39

Database Schema (Right):

- MySQL-@localhost [connected]
- bounce: schema
 - bounce_order: table
 - bounce_order_item: table
 - cart_item: table
 - category: table
 - child: table
 - color: table
 - credits: table
 - ext_translations_gallery_category: table
 - ext_translations_gallery_image: table
 - ext_translations_idea: table
 - ext_translations_page: table
 - ext_translations_product: table
 - ext_translations_slide: table
 - financial_transactions: table
 - gallery_image: table
 - gallery_category: table
 - idea: table
 - lexik_maintenance: table
 - page: table
 - payment_instructions: table
 - payments: table
 - product: table
 - product_category: table
 - product_color: table
 - product_size: table
 - ProductColor: table
 - School: table
 - size: table
 - slide: table
 - sylius_adjustment: table
 - sylius_cart: table
 - sylius_exchange_rate: table
 - sylius_number: table
 - user: table
 - user_group: table
 - user_to_user_group: table

Plugins

- .ignore
- Symfony2 Plugin
- Symfony2 – Clickable Views
- PHP composer.json support
- PHP Annotation

Q&A

Thank You!



Want Moar?

- <https://www.jetbrains.com/phpstorm/help/phpstorm-editor-guided-tour.html>
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