PhpStorm Workshop

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Before we start

Make sure you have PhpStorm 2016.1+ installed either full or free trial from http://jetbrains.com/phpstorm

Make sure you have a Vagrant 1.8.*+ and VirtualBox 5.*+

Make sure you have git command line



How it all works

This course covers PhpStorm 2016.1

But most is applicable to earlier versions

There will be some theory And some practice

We will not cover every knob and bolt Do ask questions!



Keyboard shortcuts

PhpStorm features multiple keymaps

Defaults per platform 🚨 🚨

Other IDEA-based IDE's use a similar keymap

Cheat sheet: http://bit.ly/phpstorm-shortcuts



Agenda

Look at the IDE

Navigation

Editing

Inspections

Live Templates

Refactoring

Debugging

Todo Explorer

Unit Testing

Version Control

Databases

Deployment

Tools

Plugins



Look at the IDE



Newly installed IDE

Welcome screen

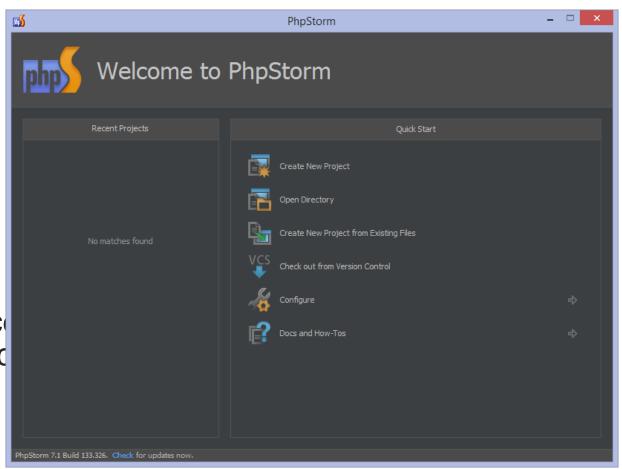
Create project

Open project

Checkout from version control

Configuration

Project? The basis for coding assistance bulk refactoring, coding style consistence etc.





Opened project

Menus and toolbars

Execute various commands

Navigation bar Navigate through project

Status bar Information about IDE and project

Editor

Where coding happens

Tool windows

Numerous helpers (e.g. database, TODO

```
M PhpExcelBusinessLogic - [C:\Projects\Samples\PhpExcelBusinessLogic] - ...\vendor\phpexcel\Classes\PHPExcel\S...
 <u>File Edit View Navigate Code Refactor Run Tools VCS Window Help</u>
 🖿 🗒 🎸 🥕 🖟 👸 🐧 🔍 🔍 💠 💠 🏙 Run on IIS (local) ▼ 🕨 🛞 🛞 👺 🥐
  🖿 PhpExcelBusinessLogic 🗅 vendor 🗁 phpexcel 🗁 phpexcel 🕽 🔁 Classes 🖿 PHPExcel 🕽 📠 Settings.php
                                  📠 CalculationEngineTest.php 🗴 📠 PHPExcel.php 🗴 📠 CachedObjectStorageFactory.php 🗴
   ▼ PhpExcelBusinessLogic (C:\P
      ▼ 🛅 public
         ▼ 🖿 assets
            வி index.php
            price_calculation.xlsx
                                          public static function getCacheStorageClass()
                                              return PHPExcel CachedObjectStorageFactory:: $ cacheStorageClass;
                                          public static function setCacheStorageMethod ($method = PHPExcel_CachedObjectStorageFac
                                             return PHPExcel_CachedObjectStorageFactory::initialize($method, $arguments);
         php-code-coverage (
         php-file-iterator (librar
                                                                                                              158:1 LF ‡ UTF-8 ‡ %
```



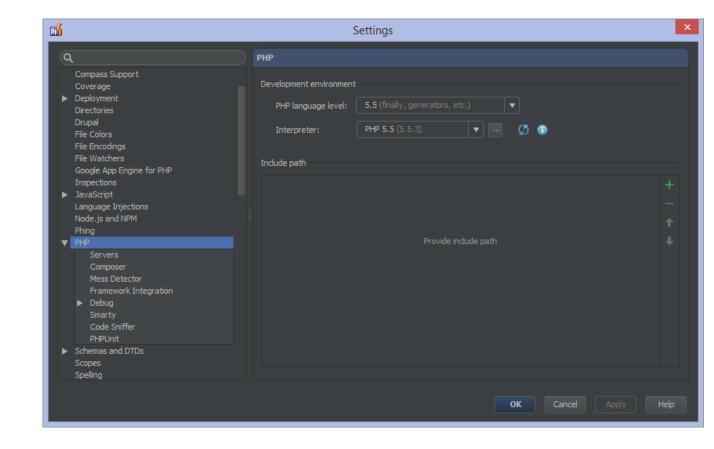
Configuring PHP

Under Project Settings | PHP, set PHP options.

Language level Interpreter Include paths Debugging

. . .



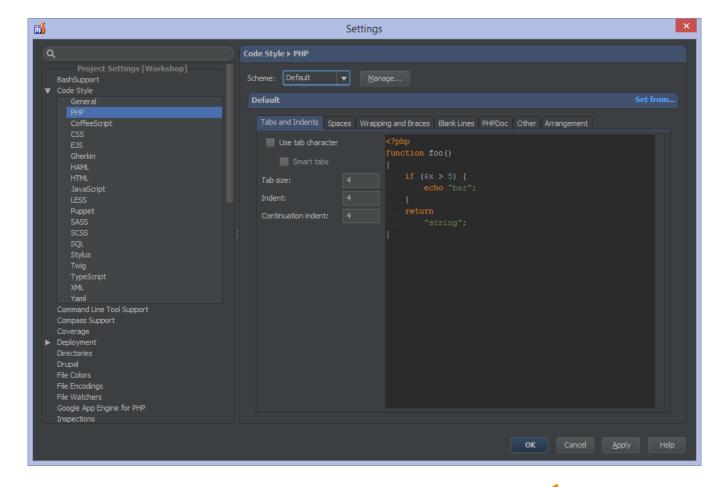




Configuring PhpStorm

Project settings
Specific for current project
IDE settings
Global for all projects







Tabs

Open a document each

Navigate between tabs

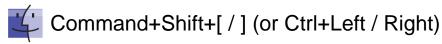
Pin tab

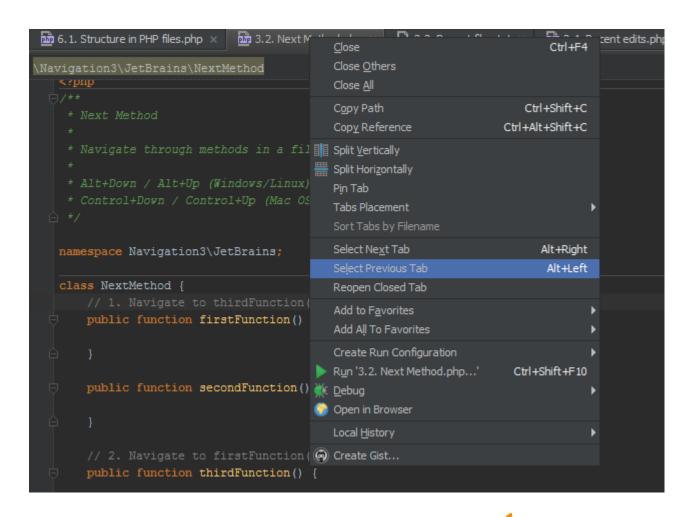
Split editor

Tabs can be favorited



Alt+Left / Right







Let's fetch the workshop materials

Start PhpStorm and if a project is opened, close it

Create a new project, name it "Workshop" and select the "Composer project" type

Find the "jetbrains/phpstorm-workshop" package and click OK

Alternatively, use "Checkout from Version Control"

Repository: https://github.com/jetbrains/phpstorm-workshop.git

Project / directory name: Workshop



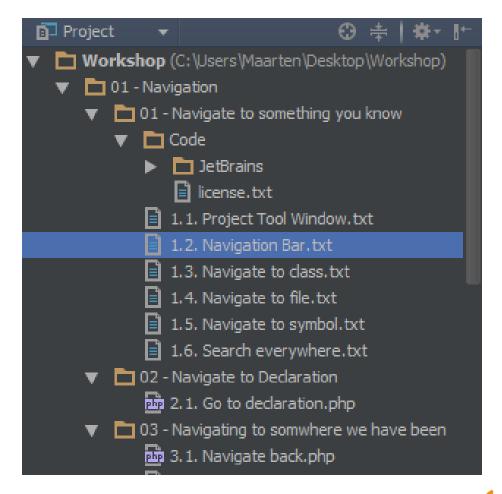
Navigation



Project Tool Window

Shows all files in project.







Navigation Bar

Navigate through files in project.

Left/Right navigates path.

Up/Down opens other node in path.





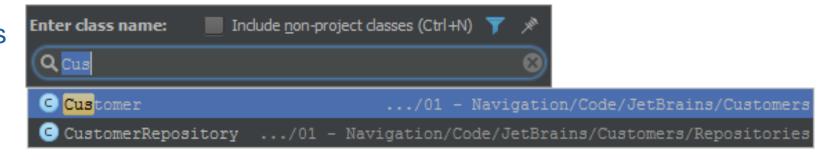




Navigate to Class

Navigates to a given class

can be in PHP or any other language supported by PhpStorm

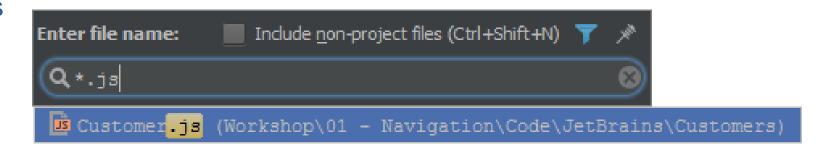


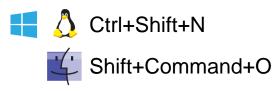




Navigate to File

Navigates to a given file any file type



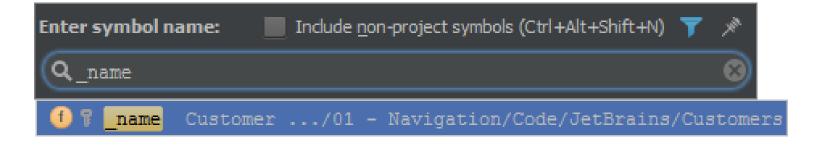


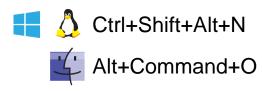


Navigate to Symbol

Navigates to a given symbol

can be in PHP or any other language supported by PhpStorm



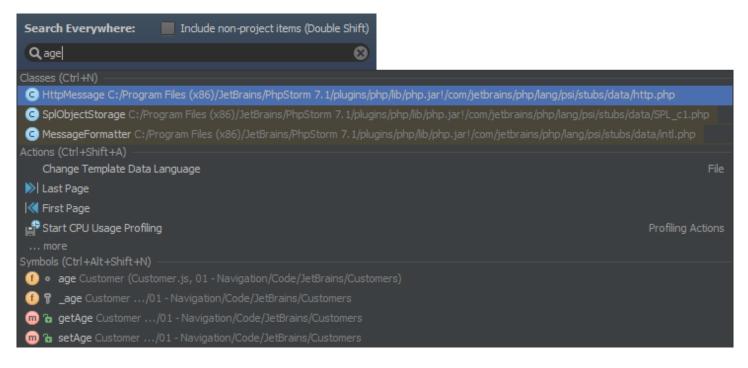




Search Everywhere

Search classes, file, symbols and menu actions all at once







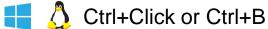
Navigate to Declaration

Ctrl-click (or Command+Click) on hyperlink

or use shortcut

```
Ctrl+Click on the Customer symbol
function <u>Customer:: construct(</u>$name, $age) : <u>Customer</u>
   3. Go to Declaraty in for the sage variable passed
$person = new Customer($name, $age);
```

```
* @return int
public dass Customer
    return $this-> age;
```







Navigate Back / Forward

Use the keyboard shortcut





Ctrl+Alt+Left / Right





Next / Previous Method

Use the keyboard shortcut to navigate through methods in a file/class.

Navigates between tags in HTML. Also works in other file types.

Next Method Previous Method





📒 🐧 Alt+Down / Alt+Up



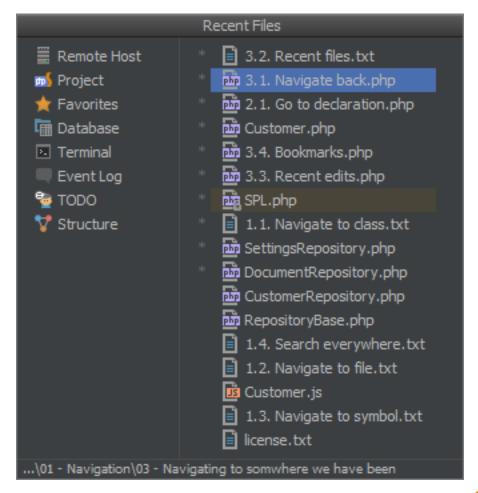
Control+Down / Control+Up



Recent Files

List of recent files use CamelHumps / wildcards







Navigate to Last Edit Location

Use the keyboard shortcut to navigate back to the last edit location.

Last Edit Location





Ctrl+Shift+Backspace



Shift+Command+Delete



Bookmarks

Navigate between "bookmarked" locations.



F11 Toggle Bookmark
Ctrl+F11 Toggle Numbered Bookmark Shift+F11 Show bookmarks Ctrl+0..9 Navigate to numbered bookmark



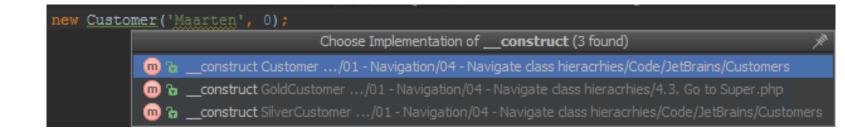
F3 Toggle Bookmark Alt+F3 Toggle Numbered Bookmark Command+F3 Show bookmarks Ctrl+0..9 Navigate to numbered bookmark

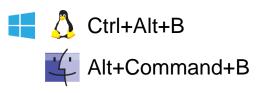
```
public function secondFunction() {
public function thirdFunction() {
```



Go to Implementation

Navigates to the implementation of a given class.







Go to Derived

Navigates to the implementation of a given interface or to a subclass.

```
// 1. Navigate to the Customer class and come back.

Choose implementation of ICustomer

Choose implementation of ICustomer

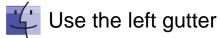
Customer .../01 - Navigation/04 - Navigate class hierarchies/Code/JetBrains/Customers

C GoldCustomer .../01 - Navigation/04 - Navigate class hierarchies/4.3. Go to Super.php

C SilverCustomer .../01 - Navigation/04 - Navigate class hierarchies/Code/JetBrains/Customers
```



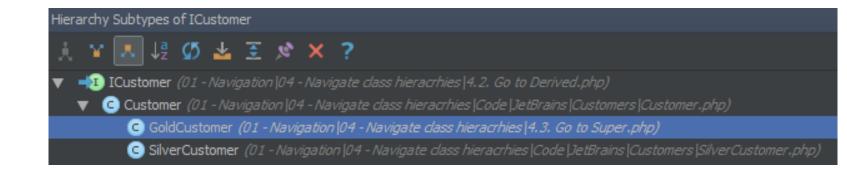
Use the left gutter





Go to Super class/method

Navigates to the super class or method.





Ctrl+U (Ctrl+H for hierarchy)





Highlight Usages in File

Highlights usages of a symbol in the current file. Different colors for read/write.

Esc to clear highlighting.

```
Ctrl+Shift+F7
Shift+Command+F7
```

```
public function adjust($original, $delta) {
   $newValue = $original + $delta;
   if ($newValue < self::MIN VALUE) {
        $newValue = self::MAX VALUE;
      ($newValue > self::MIN VALUE) {
        $newValue = self::MAX VALUE;
   return $newValue;
```



Find Usages

Find usages of a symbol in the current project. Use tool window or popup.

```
function adjust ($original, $delta)
wValue = $ori
                                        Usages of adjust in Project Files (2 usages found)
                होते FindUsagesSample.php
                                                     $target->adjust(5, 3);
($newValue <
                FindUsagesSample.php
                                                     $target->adjust(3, 9);
 $newValue =
```





Alt+F7 (Ctrl+Alt+F7 for popup)



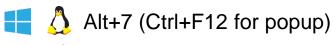
Alt+F7 (Alt+Command+F7 for popup)



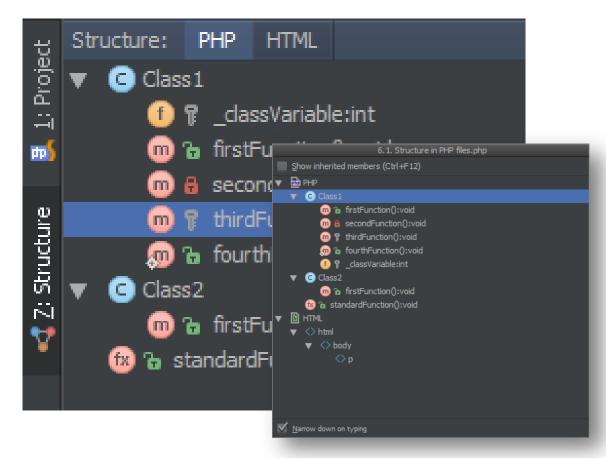
File Structure Tool Window

Displays outline of file: classes, functions (with icons displaying accessibility).

Also shows HTML, JavaScript, CSS,









Editing



Basic Completion

Basic code completion for the name of any class, method or variable.

Hit Ctrl+Space twice for more variants

Also allows path completion

```
public function basicCompletion()
    $this->
                                                                    int
        🔟 🚡 basicCompletion ()
                                                                   void
                                                                 string
                                                                   void
        Invoke completion again to see more variants. 🔀
```





Ctrl+Space (Ctrl+Shift+Enter to complete statement)

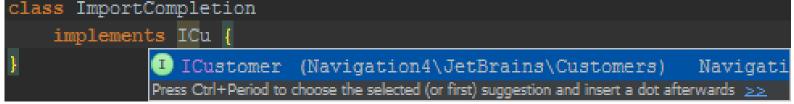


Ctrl+Space (Shift+Command+Enter to complete statement)

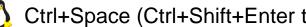


Import Completion

Basic code completion when using classes or functions from other namespaces. Automatically adds import when selected.







Ctrl+Space (Ctrl+Shift+Enter to complete statement)



Ctrl+Space (Shift+Command+Enter to complete statement)



Selecting Code

Various ways of selecting code.

```
Ctrl+W to expand, Ctrl+Shift+W to shrink

Alt+Up / Down
```

```
public function extendAndShrinkSelection() {
    $importantValue = 32;
    if ($importantValue > 42) {
        try {
            echo 'More important than 42?';
        } catch (Exception $ex) {

            // 3. Place the cursor on the $ex variable. !
            echo $ex->getMessage();
        }
}
```



Column Selection

Toggle column selection. Allows editing multiple lines in one go.

```
Alt+Shift+Insert
Shift+Command+8
```

```
public function columnSelection() {
    $fo = 3;
    $fo = 6;
    $fo = 9;
    $fo = 'a';
    $fo = 'b';
}
```



Moving Code

Move code or entire statement up/down.

```
if (3 == 3) {
    if (1 == 1) {
        echo 'Number one';
    echo 'Number three';
```





Shift+Alt+Up / Down (or Shift+Ctrl+Up / Down for statement)

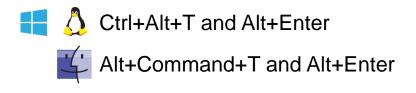


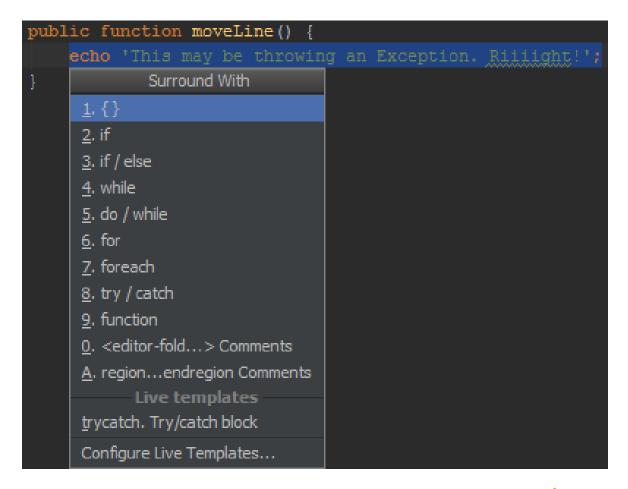
Shift+Alt+Up / Down (or Shift+Command+Up / Down for statement)



Surround With

Wraps selected text with new content, e.g. try/catch or if statement.

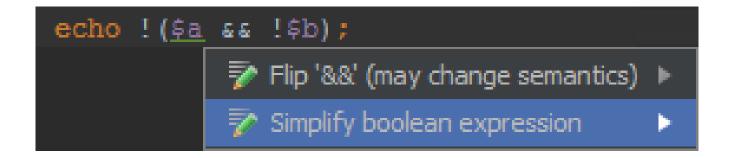






Intentions

Let the IDE figure out possible actions from context and execute them.







Generate Code

Generate code, e.g. class members, constructor, docblock comments, fields, ...

When used in navigation bar / project tool window, generates a new file.

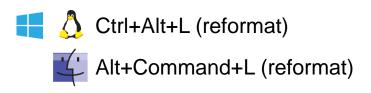


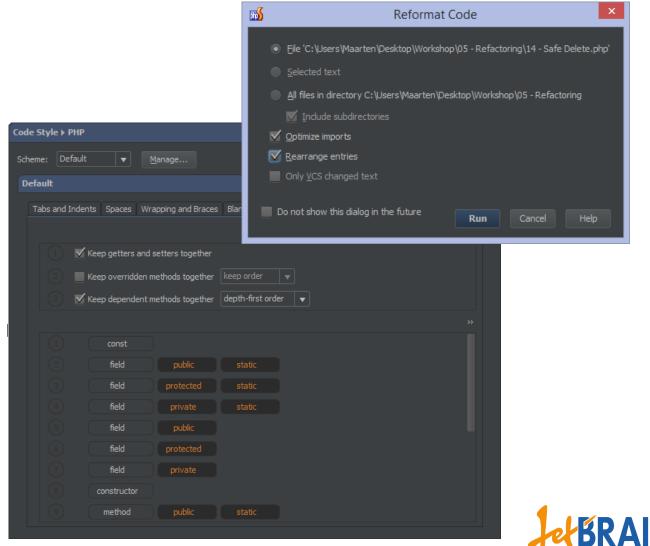
```
class Person
     protected $_firstName;
     protected $ lastName;
             Generate:
      Override Methods...
      Implement Methods...
      Constructor....
      Getters....
      Getters and Setters...
      Setters....
      PHPDoc Blocks...
```



Rearrange/Reformat Code

Rearranges entries in code according to settings. Reformats all code according to code style.





Inspections



Highlights

In-editor highlighting of code issues.

Errors

Warnings

Suggestions

Hints

Dead Code

Can be suppressed.

Support for PHP Code Sniffer / PHP Mess Detector.

```
public function warningFunction3() {
    $variable = 1;
    switch ($variable) {
        case 1:
        Missing break' statement more... (Ctrl+F1)
        echo 'Number two';
    }
}
```



Quick Fixes

Highlights provide a Quick Fix action to help remove the warning.







Navigation

Navigate back and forth between code issues.

Next Highlighted Error

Previous Highlighted Error





Gutter and Lens

Right gutter displays error information. Use Lens mode for preview.

```
Analysis completed
1 error found
7 warnings found
1 weak warning found
1 typo found
```

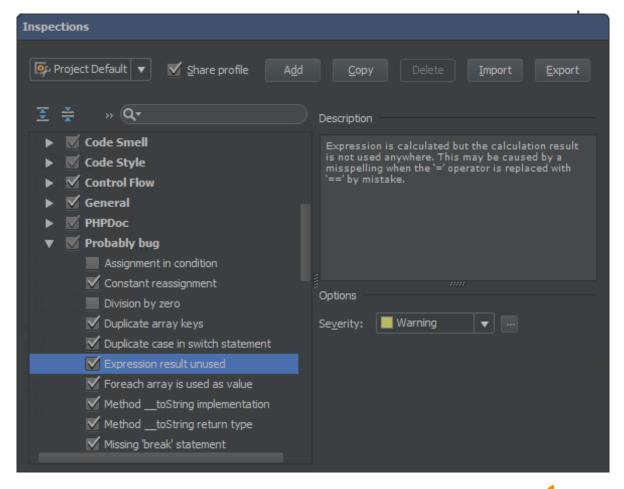


Settings

Enable/disable inspections, see examples and documentation.

Configure severity.



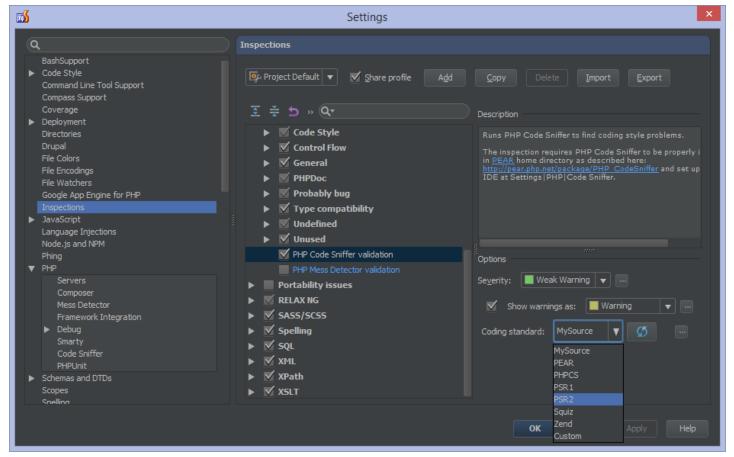




PHPMD / PHPCS

PHP Mess Detector and PHP Code Sniffer can be plugged in for inspections as well.



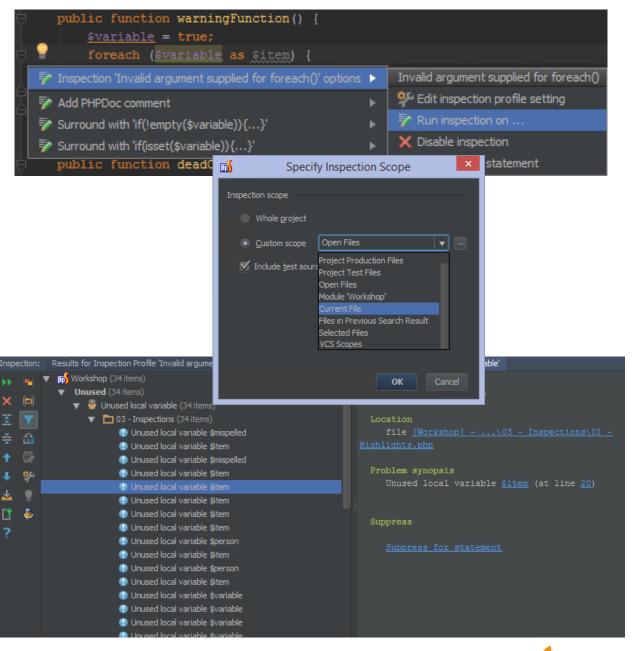




Find Issues

Quick fix menu allows finding all similar issues.

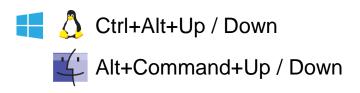


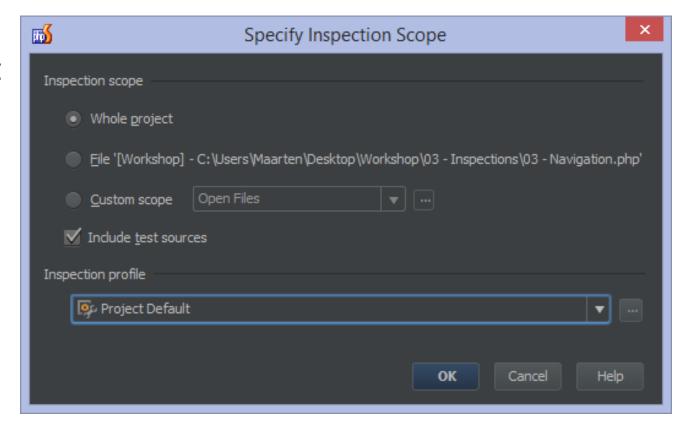




Run Inspections

Run an inspection profile and get results for the entire project (or scope).







Live templates (snippets)



Code Expansion

Expand text shortcut using template.

Expands into code with variable "hotspots"

Hotspot can be linked to an expression, such as "current user", "autocomplete",

. . .

Tab to move between hotspots.

Template can define end point for caret.

```
Tab
```

```
$numbers = array(1,2,3,4,5,6,7,8,9);
foreach ($numbers as $item) {
}
```



Creating Live Templates

Create your own live templates.

Use variables and expressions.

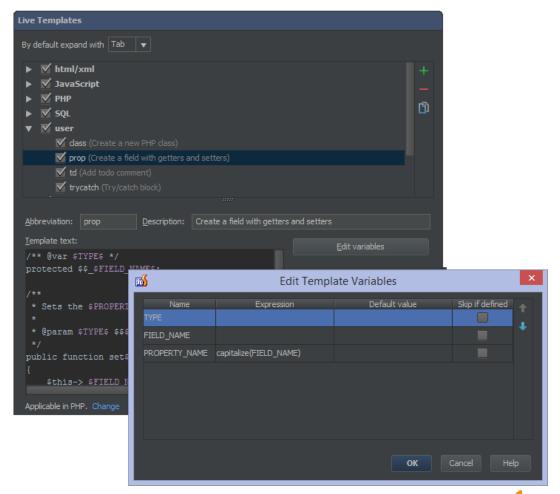
Can be created from settings or straight from within the editor.

\$END\$ variable denotes where caret should be after expansion.

Expressions:

https://www.jetbrains.com/phpstorm/webhelp/edit-template-variables-dialog.html







Surround Templates

Surround code with a template.

Extra predefined variable:

\$SELECTION\$ is the currently selected text

Only considered a surround template when this macro is used.







Ctrl+Alt+T or Ctrl+Alt+J



Alt+Command+T or Alt+Command+J



File Templates

Applied when creating a new file or generating code.

Can contain includes.

Customize code generation.

Variables:

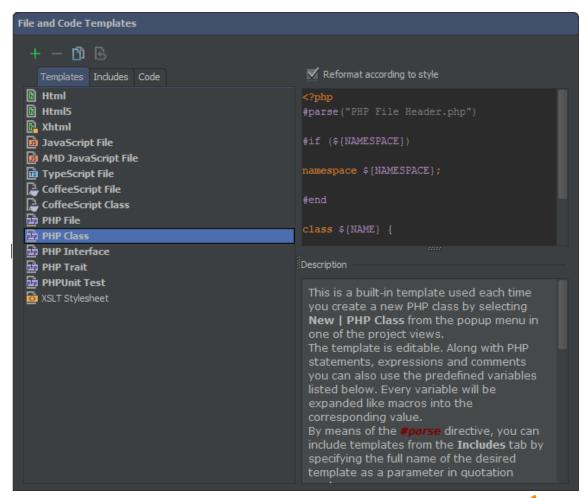
https://www.jetbrains.com/phpstorm/ webhelp/file-template-variables.html





Ctrl+Alt+S







Refactoring



"Refactoring is a controlled technique for improving the design of an existing code base."

Martin Fowler

http://martinfowler.com/books/refactoring.html



Refactoring in PhpStorm

The IDE will:

Perform the refactoring

Track down and correct the affected code references automatically

Warn about occurrences it can not update automatically

Available refactorings:

Change Signature

Copy/Clone

Extract Constant

Extract Field

Extract Interface

Extract Method

Extract Parameter

Extract Variable

Inline

Move Refactorings

Pull Members up

Push Members down

Rename Refactorings

Safe Delete

Move Static Member

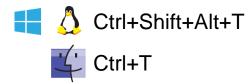


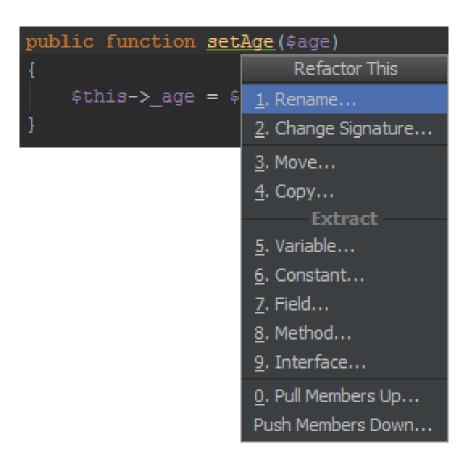
Refactor This

Refactor symbol or code fragment

In Project View, Structure Tool Window, Editor or UML Class Diagram.

Use menu item **Refactor** | **Refactor This** or keyboard shortcut.







Change Signature

http://www.jetbrains.com/phpstorm/webhelp/change-signature.html

You can use this refactoring to:

Change the function name.

Add new parameters and remove the existing ones.

Assign default values to the parameters.

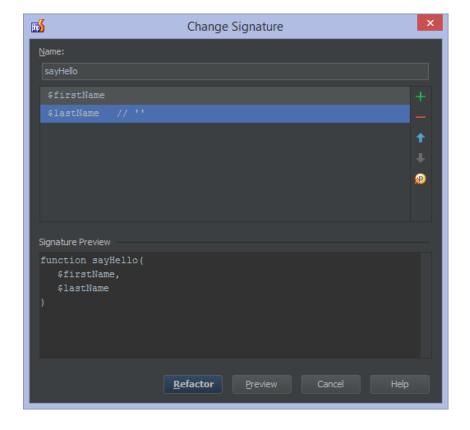
Reorder parameters.

Change parameter names.

Propagate new parameters through function call hierarchy.

Ctrl+F6





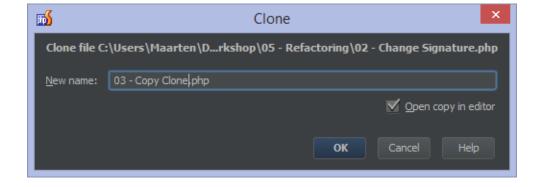


Copy/Clone

http://www.jetbrains.com/phpstorm/webhelp/copy-clone.html

Copy a class, file or directory to another directory or clone it within the same directory.

Using keyboard shortcut Using drag/drop with Ctrl key pressed)







F5 (copy), Shift+F5 (clone)



F5 (copy), Shift+F5 (clone)

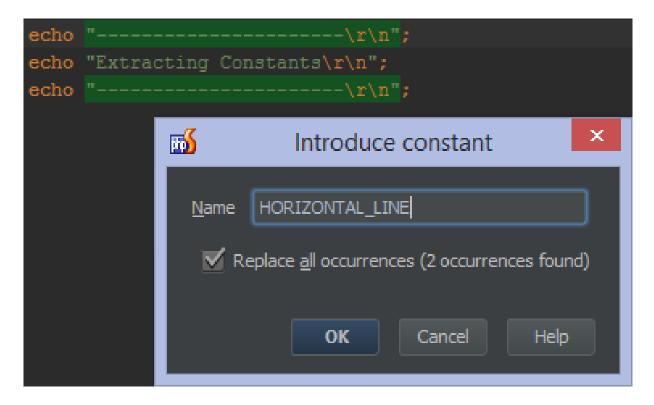


Extract Constant

http://www.jetbrains.com/phpstorm/webhelp/extract-constant.html

Extract a constant to make code cleaner and more maintainable.





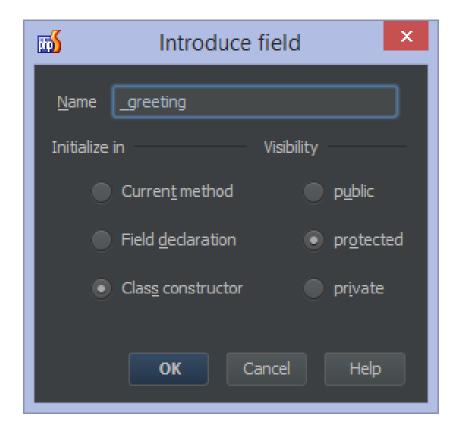


Extract Field

http://www.jetbrains.com/phpstorm/webhelp/extract-field.html

Extract an expression into a field.







Extract Interface

http://www.jetbrains.com/phpstorm/webhelp/extract.html

Extract an interface from a class.

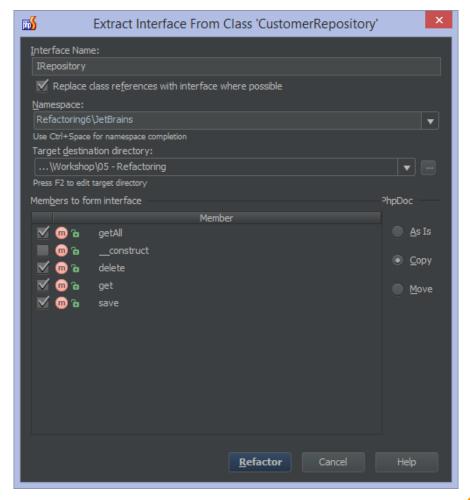
Specify a Name

Optionally change namespace

Pick members to extract

Copy PHPDoc

Use the menu or Refactor This.

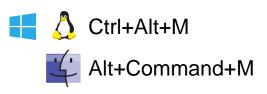


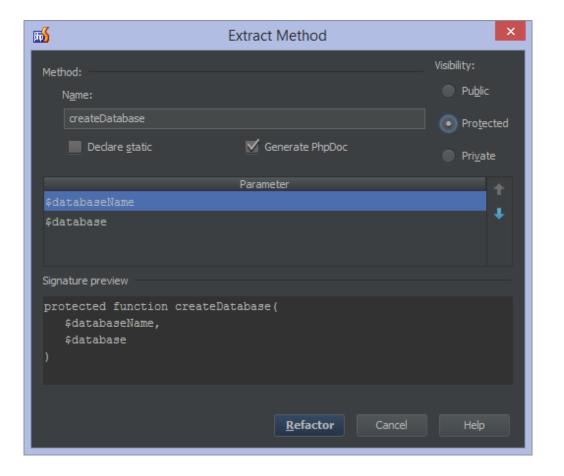


Extract Method

http://www.jetbrains.com/phpstorm/webhelp/extract-method.html

Extracts a block of code into a method, detecting parameters and return values.







Extract Parameter

http://www.jetbrains.com/phpstorm/webhelp/change-signature.html

Adds a new parameter to a function declaration. Determines the default. Can generate JSDoc.

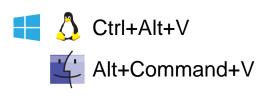


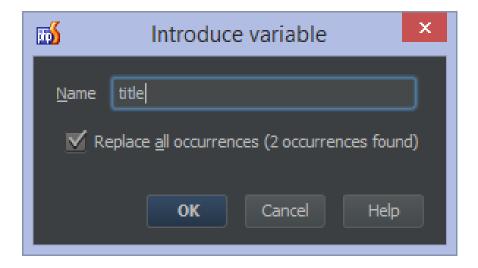


Extract Variable

http://www.jetbrains.com/phpstorm/webhelp/extract-variable.html

Puts the result of a selected expression into a variable. The original expression is replaced with the new variable.





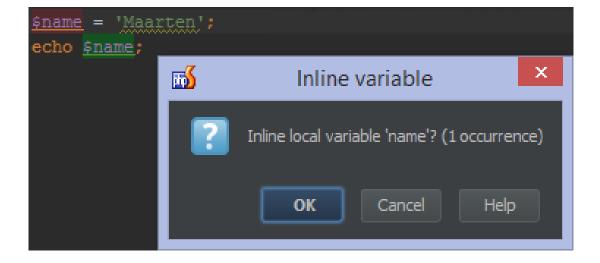


Inline

http://www.jetbrains.com/phpstorm/webhelp/inline.html

Replace redundant variables or functions with the full expression. It is the opposite of **Extract Variable / Method**.







Move

http://www.jetbrains.com/phpstorm/webhelp/move-refactorings.html

Changes the location of a file, directory, class or static member.

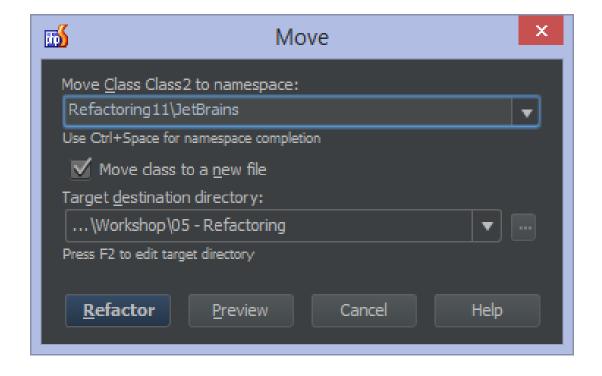
Move File

Move Directory

Move Class

Move Static Member



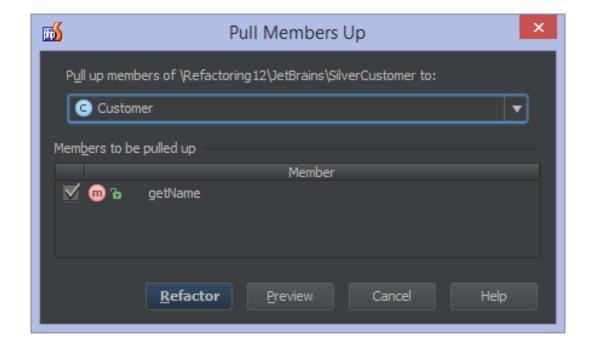




Pull Members Up / Push Members Down

http://www.jetbrains.com/phpstorm/webhelp/pull-members-up.html

Move members from subclass to superclass or from superclass to subclass.





Rename

http://www.jetbrains.com/phpstorm/webhelp/rename-refactorings.html

Allow you to rename symbols, automatically correcting all references in the code.

Rename Class

Rename Method

Rename Field

Rename Function

Rename Variable

Rename Parameter

Rename CSS color value

Rename File

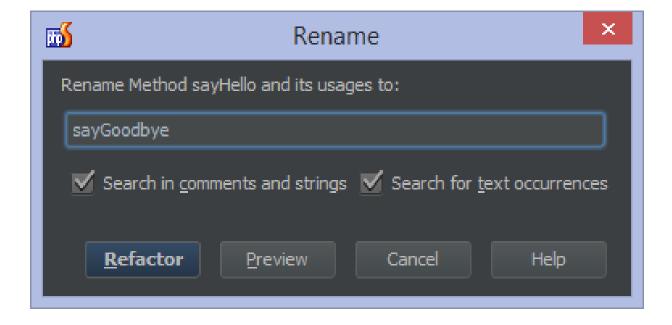
Rename Directory





∆ Shift+F6



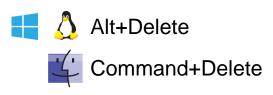


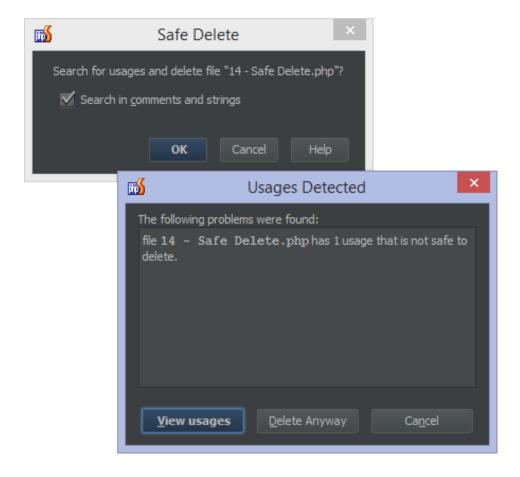


Safe Delete

http://www.jetbrains.com/phpstorm/webhelp/safe-delete.html

Safely remove code or symbols.





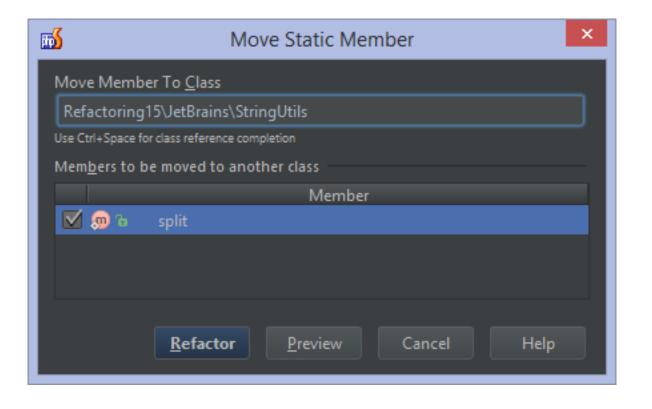


Move Static Member

http://www.jetbrains.com/phpstorm/webhelp/move-refactorings.html#d705080e490

Move static fields and methods to another type.







Debugging



Debugging

"Finding and reducing bugs"

In an IDE typically stepping through code & inspecting values in memory PhpStorm needs one of these configured:

Xdebug - http://confluence.jetbrains.com/display/PhpStorm/Xdebug+Installation+Guide

Zend Debugger -

http://confluence.jetbrains.com/display/PhpStorm/Zend+Debugger+Installation+Guide

Most features supported by both debuggers



Settings

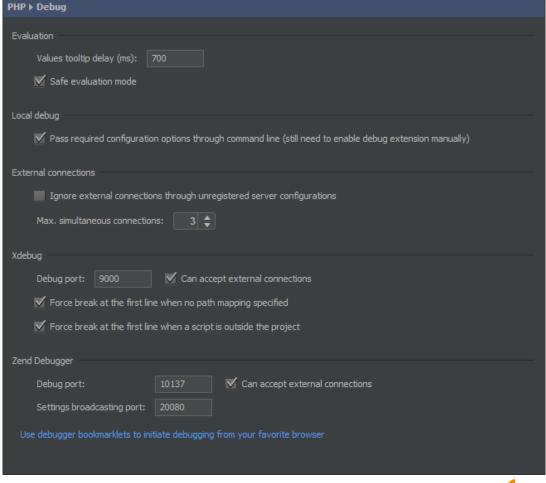
Debugger is configured through php.ini

Project Settings | PHP | Debug

How debug info is displayed in IDE

Xdebug / Zend Debugger port number

DBGp Proxy



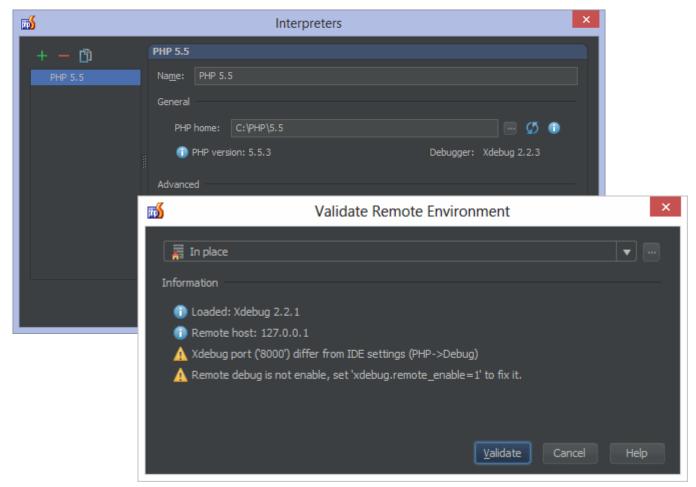


Debugger Configuration Validation

PhpStorm analyzes configuration

Reports active debugger

When a server is configured, reports configuration issues





Breakpoints

Tell the interpreter to pause execution and inspect variables.

```
$name = 'Mikhail';

for ($i = 0; $i < 5; $i++) {
    $name = 'Person ' . $i;
}</pre>
```





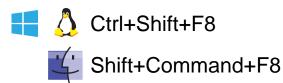
Conditional Breakpoints

Tell the interpreter to pause execution and inspect variables, only when a specific condition is true.

```
$name = 'Mikhail';

for ($i = 0; $i < 5; $i++) {
    $name = 'Person ' . $i;

}</pre>
```





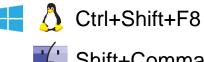
Breakpoints

See breakpoints that are specified and configure additional options.

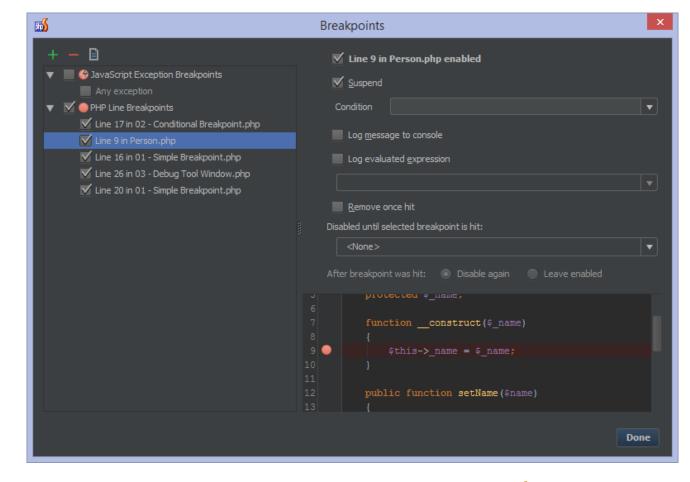
Log a message to console

Remove the breakpoint after it has been hit

Disable breakpoint until another breakpoint has been hit



```
Shift+Command+F8
```





Exception Breakpoints

Xdebug only!

Break when error, warning, notice or

Exception occurs.

```
Watches
  error_get_last() = {array} [4]
      type = 2
      message = "Division by zero"
      | file = "C:\Users\Maarten\Desktop\Workshop\06 - Debugging\04 - Exception Breakpoints.php"
      🖁 line = 21
```







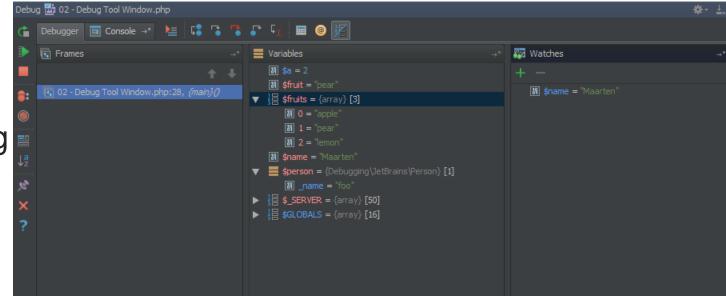


Debug Tool Window

Available during a debug session.

Showing execution details, variables, watches.

Allows running code / modifying variable value.







Alt+5, Alt+F8 evaluate expression



Command+5, Alt+F8 evaluate expression



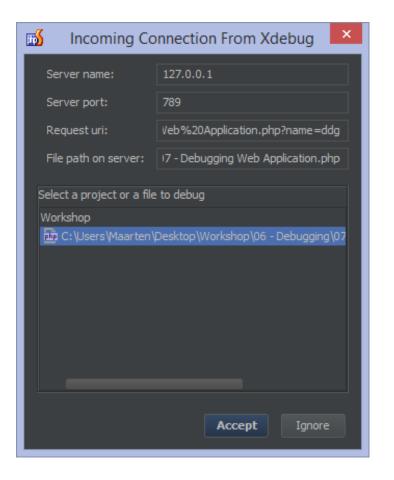
Debugging a Web Application

Use a Run Configuration

PHP HTTP Request – automate the request

PHP Web Application – start with debugging

Listen for incoming connections and use bookmarklets or plugin

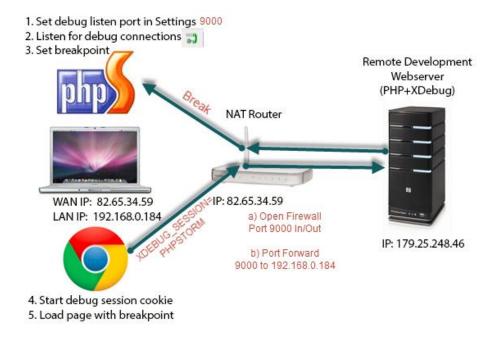




DBGp Proxy

Debug on remote server.

Every developer can use different IDE key and debug independent from each other.

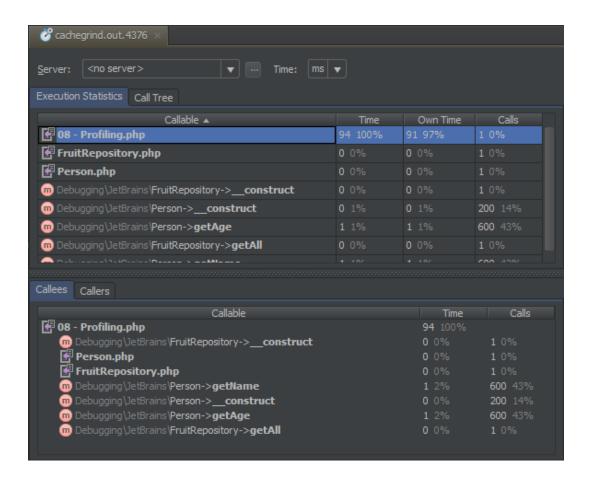


From http://matthardy.net/blog/configuring-phpstorm-xdebug-dbgp-proxy-settings-remote-debugging-multiple-users/



Profiling

Insight into # of calls, execution times per function, ...





Todo explorer



Highlighting TODO

Listing tasks commented in code.

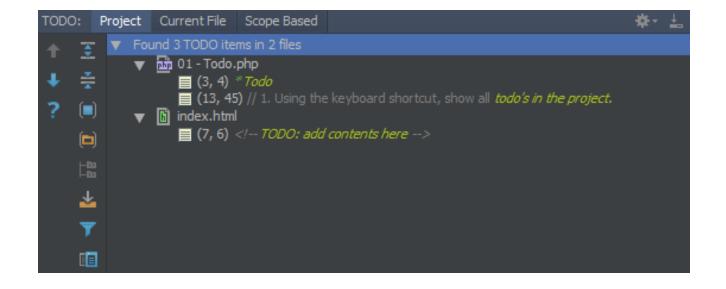
```
Work in every file type.

Default patterns:

// todo

// fixme
```



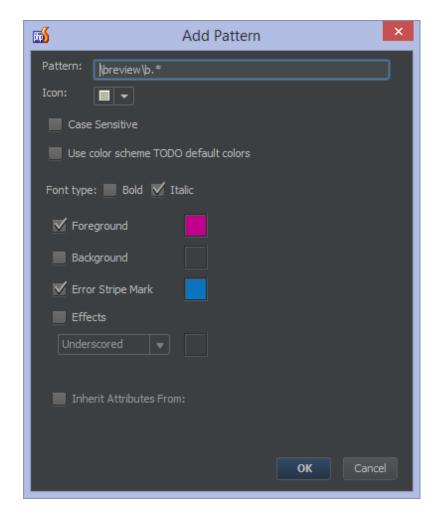




Patterns

Customize todo patterns to recognize other keywords.



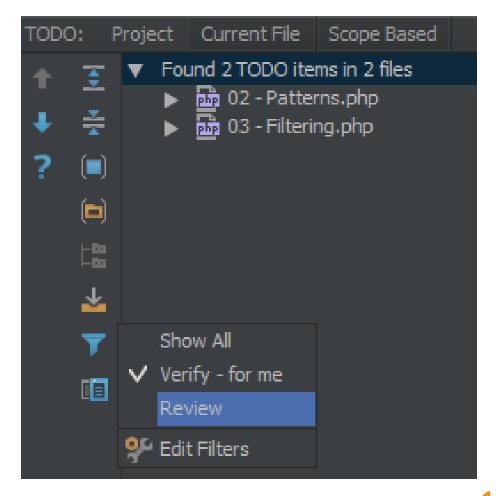




Filtering

Filter tasks in the tool window based on pattern.







Unit Testing

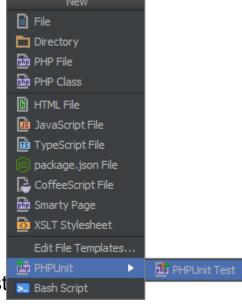


Writing PHPUnit tests

Create new file, select PHPUnit

test.

Specify unit test details.

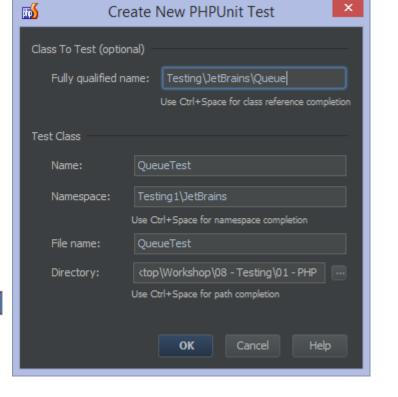




Alt+Insert or Ctrl+Shift+T (Go to Test Bash Script



Command+N or Command+Shift+T (Go to Test)

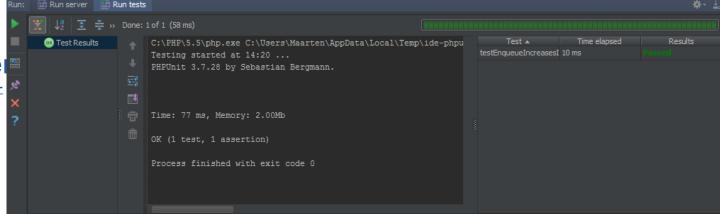




Running PHPUnit tests

Run Unit Tests using PHPUnit. Note that the PHPUnit framework can be acquired through PEAR or Composer.

Can be run local or on remote servel (see http://www.jetbrains.com/phpstorm/webhelp/run-debug-configuration-phpunit-on-server.html)





Test-Driven Development (TDD)

Writing tests first, outlining expected results, after which the method under test gets implemented.

```
public function testPeekReturnsFalseWhenNoItemsInQueue() {
    $result = $this->_queue->peek();
    Add method > ssertFalse($result);
}
```





Code Coverage

See which statements have been tested and which statements have not.

Use the "Run tests with Coverage" action.

See

https://www.jetbrains.com/phpstorm/webhelp/coverage.html

```
Coverage Run tests
           Coverage Summary for 'Code': 50% files, 71% lines
                                             Statistics, %
           Bootstrap.php
                                     71% lines
           ि Oueue.php
<?php
names
class
    protected $ store = array();
    public function getNumberOfItems() {
        return count ($this-> store);
    public function enqueue ($item) {
        array push ($this-> store, $item);
    public function dequeue() {
        return array shift($this-> store);
```



JavaScript Unit Testing

May require a plugin to be installed, e.g. Karma

Using Karma or JSTestDriver.

Installing Karma through NPM
https://www.jetbrains.com/phpstorm/webhelp/preparing-to-use-karma-test-runner.html

Installing JSTestDriver

https://www.jetbrains.com/phpstorm/webhelp/preparing-to-useistestdriver-test-runner.html

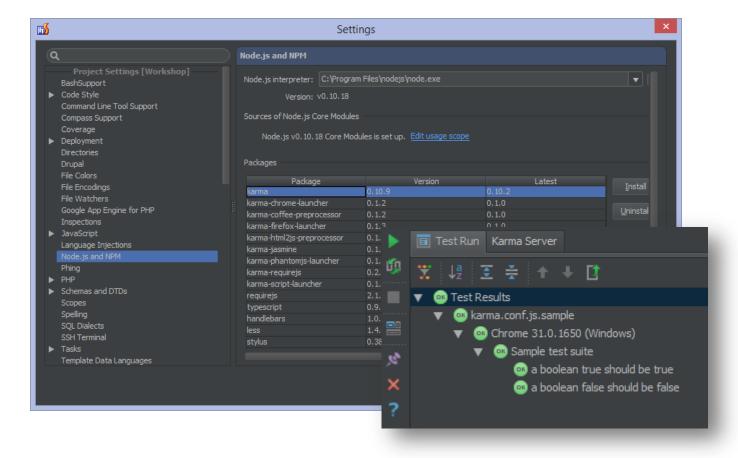
Support for

JSTestDriver Assertion framework

Jasmine

QUnit

Mocha





Version Control



Version Control

Keep a log of all changes

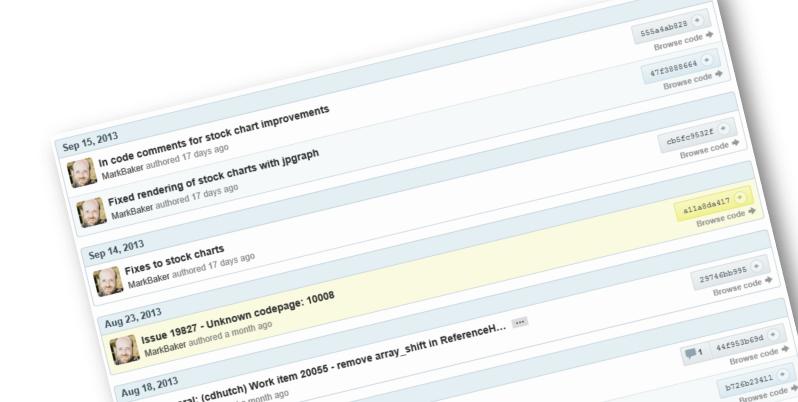
Synchronize copies across computers and developers

Go back in time

Who did what when why?

Compare versions

Rollback versions



Concepts

Repository (local / remote)

Checking out / cloning

Fetch copy from repository

Commit

Submit changes to repository

Revision / changeset

What changed? When? Who? Why?

Stored in order

Conflicts

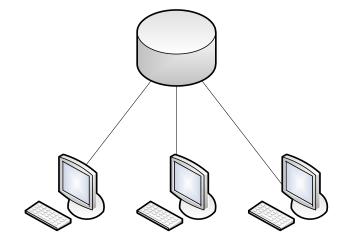
Diff

Branching / merging



Flavours

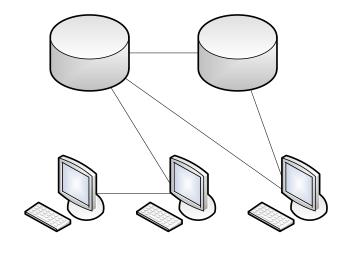
CENTRALIZED VERSION CONTROL



Central repository = entire history

Devs work on a version and sync

DECENTRALIZED VERSION CONTROL



Devs have copy of entire history

Work on a version and sync with any



Products all use different terms...

Checkout / Clone / Export

Commit / Check In

Push / Submit

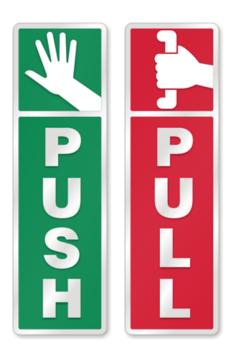
Revert / Roll back

History / Log

Annotate / Blame

Compare / Diff

. . .





But they are similar in nature!

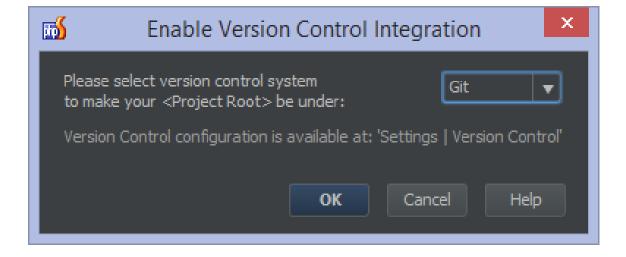
```
Unified VCS functionality in the IDE
 CVS
  Git
  Subversion
 Mercurial
  Perforce
 TFS (via plugin)
  (others through plugins)
IDE enriched with specific functionality (e.g. push/pull)
```



Enabling VCS integration

Telling the IDE that the project is under a VCS system.

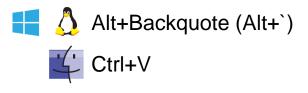
Use the VCS menu.

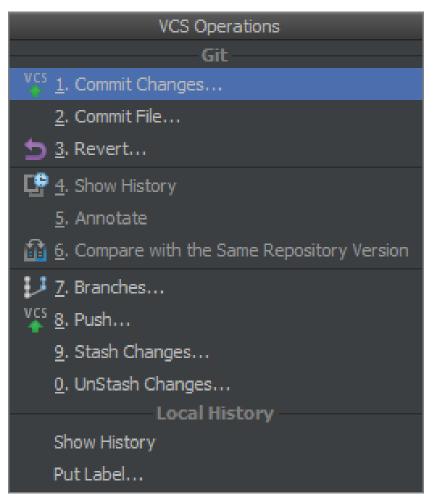




VCS operations

Perform operations on the version control system such as adding files, deleting files, committing changes and so on.

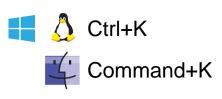


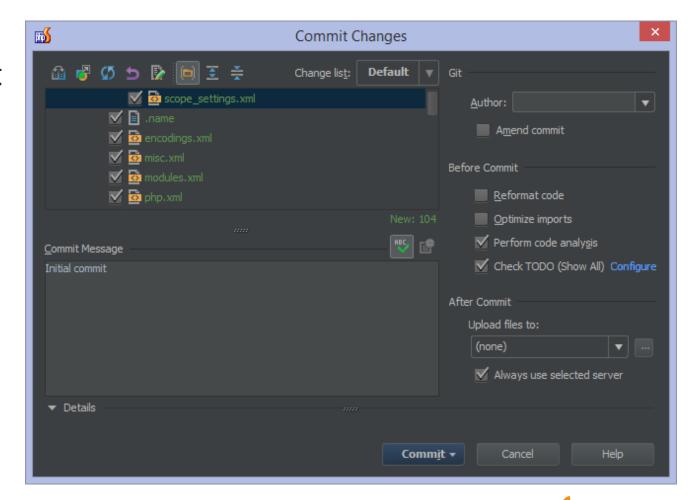




Committing Changes

Persisting the current changeset as a logical operation in the VCS, with a comment, author, ...





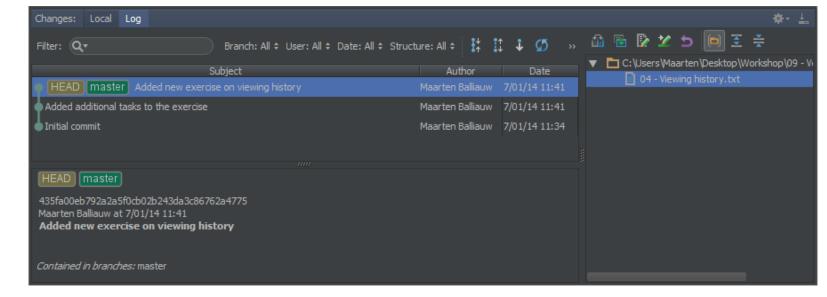


Viewing History

View all information related to

previous commits.



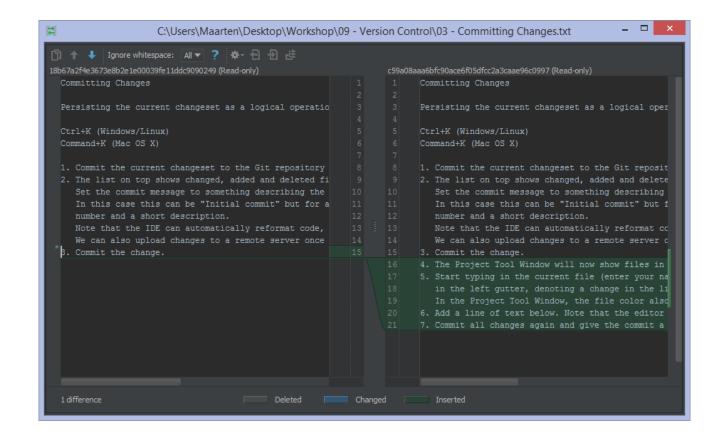




Viewing Diff

Show changes made to a particular file.

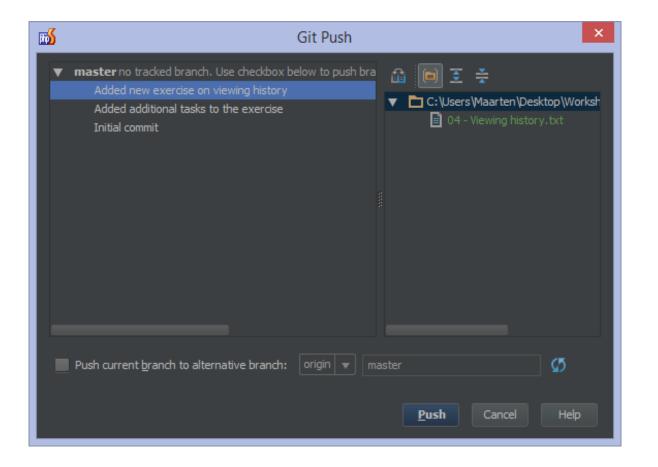






Git/Mercurial: Push/Pull

Persist local copy of VCS repository to remote copy.





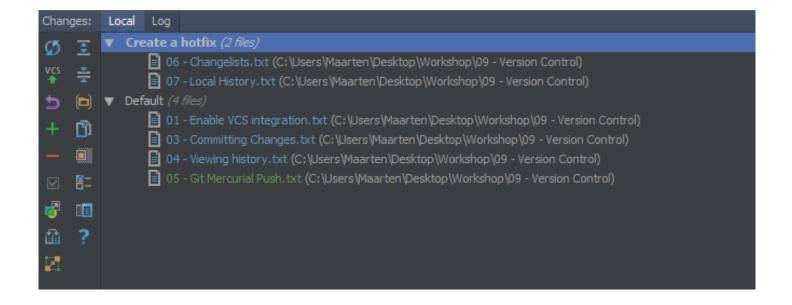
Changelists

Work on multiple logical changes at the same time.

Name changelist.

Can be committed / shelved.



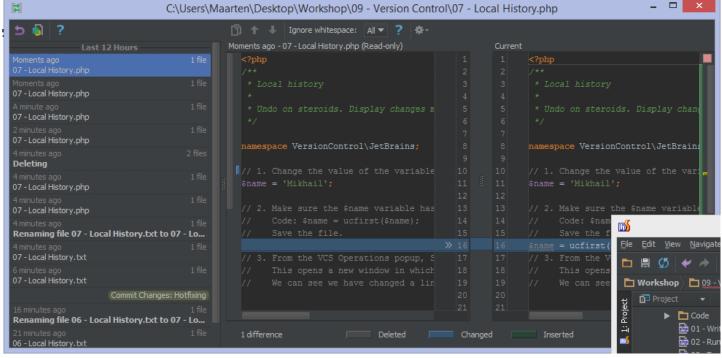




Local history

Undo on steroids. Display changes made between commits, revert local changes

. . .





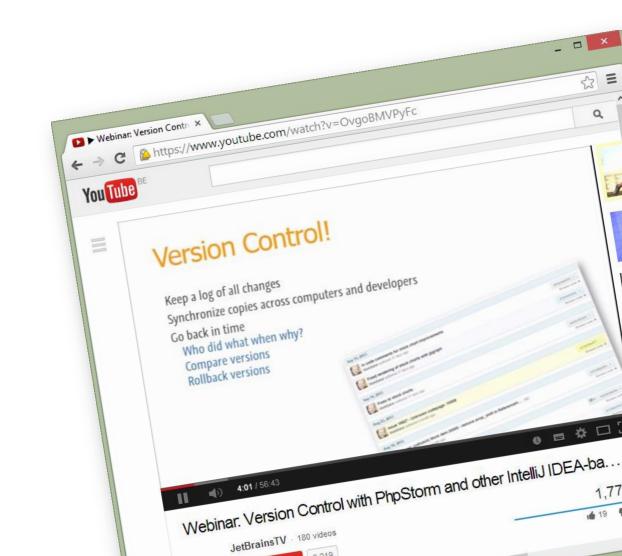
Resources

Webinar recording

https://www.youtube.com/watch?v=OvgoBMVPyFc

Web help

http://www.jetbrains.com/phpstorm/webhelp/version-control-with-phpstorm-2.html



Databases



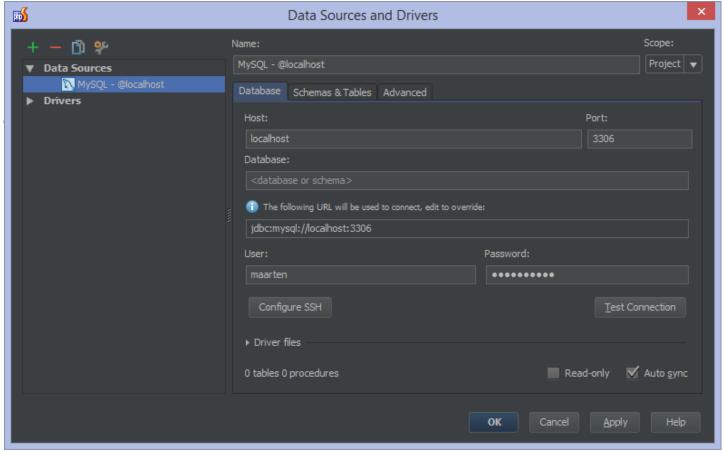
Connecting to a database (server)

Connecting to MySQL, DB2, Derby, SQL Server, Oracle, PostgreSQL, Sybase, H2, sqlite Google, ...

Specify connection details

Download JDBC driver

Select schema / tables to work with





Database Console

SQL console with autocompletion, inspections, error highlighting, autocompletion on joins, ...

```
MySQL - workshop@localhost: workshop
  SELECT person.name, city.name as city, country.name as nationality
   FROM person
     INNER JOIN city ON person.city id = city.city id
     INNER JOIN country ON
                              country.country id = person.nationality country id
                            country.country id = city.country id
                           Did you know that Quick Documentation View (Ctrl+Q) works in completion lookups as well?
```



Ctrl+Shift+F10

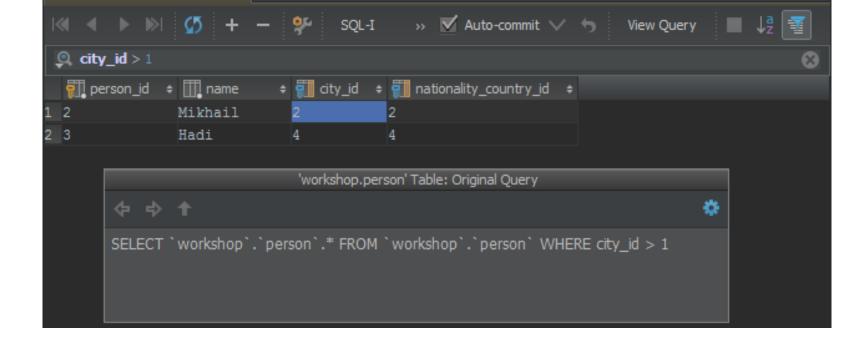




Table Editor

Edit records in a table: insert workshop.person' Table

update, delete, ...



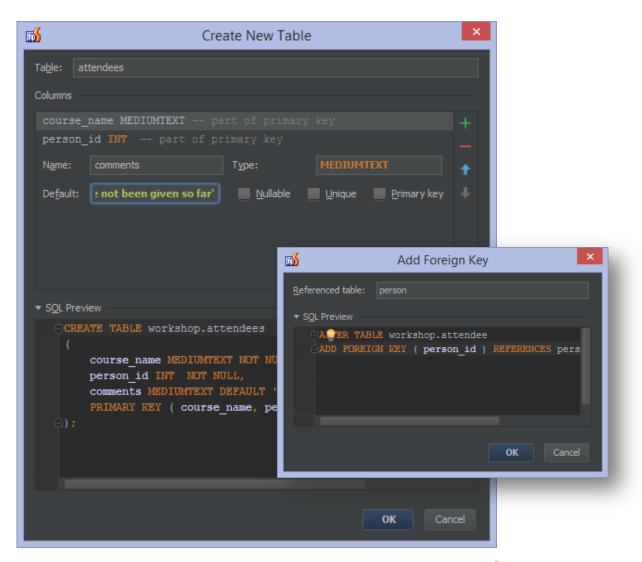




Create New Table

Create a new table in the database. Specify column options, default values, primary key, ...





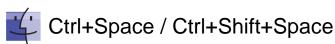


Database tools in PHP

Strings can be identified as a query, will provide autocompletion, highlighting, ability to go to query editor, run query right from PHP squery = "SR









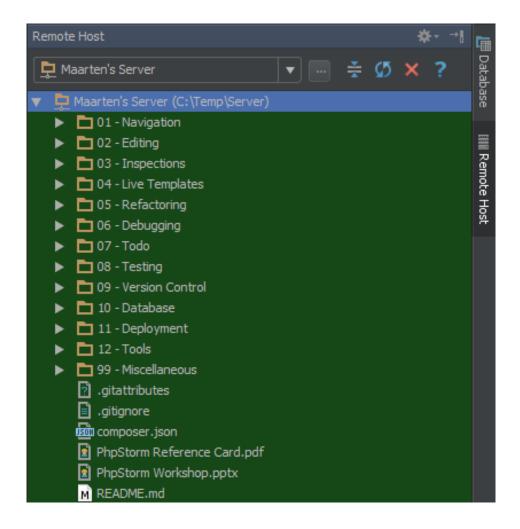
Deployment



Remote Hosts

Copy files and folders back and forth between local project and server.

Can be FTP, FTPS, SFTP, Local or Mounted Folder or In Place.



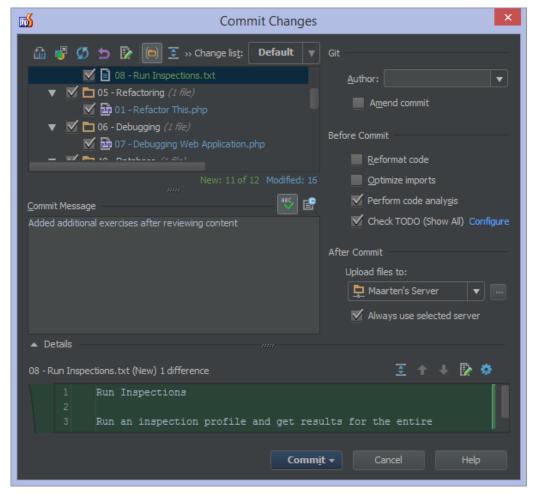


Integration with VCS

Upload files to server when committing to source control.

Useful for development servers.

For production servers better to use continuous integration server.



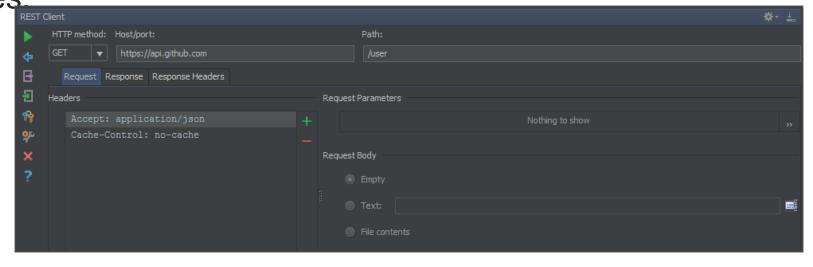


Tools



REST Client

The built-in REST client allows testing web API's. Build requests, inspect responses





Composer

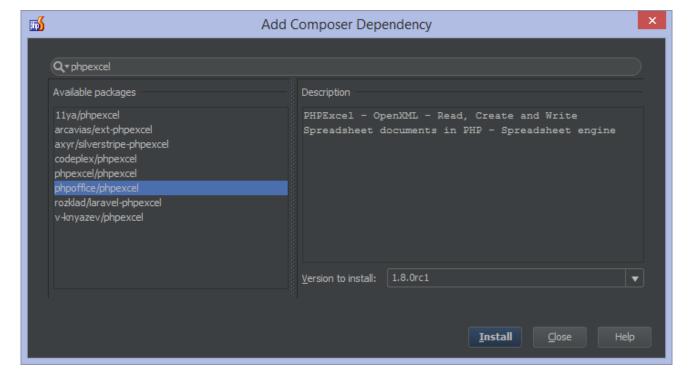
Work with <u>Composer</u> dependency manager in the IDE.

Initialize Composer

Search and install Composer dependencies

Create new project using Composer project type.

Command Line Tools (see further)





Command Line Tools

Invoke command line tools shipped with frameworks and libraries.

Composer, Zend Framework, Symfony, Symfony Console-based, Drush or roll your own

Autocompletion support

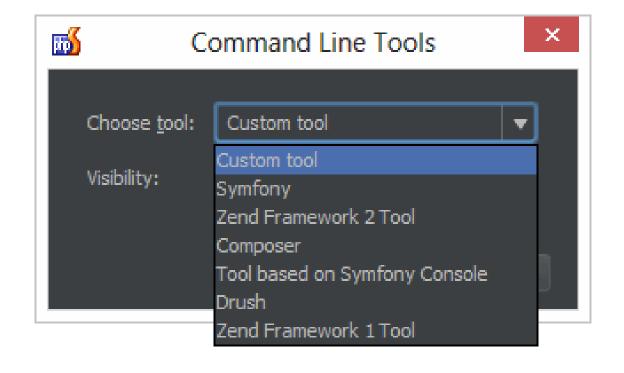
Not meant to be a full console/terminal!





Ctrl+Shift+X





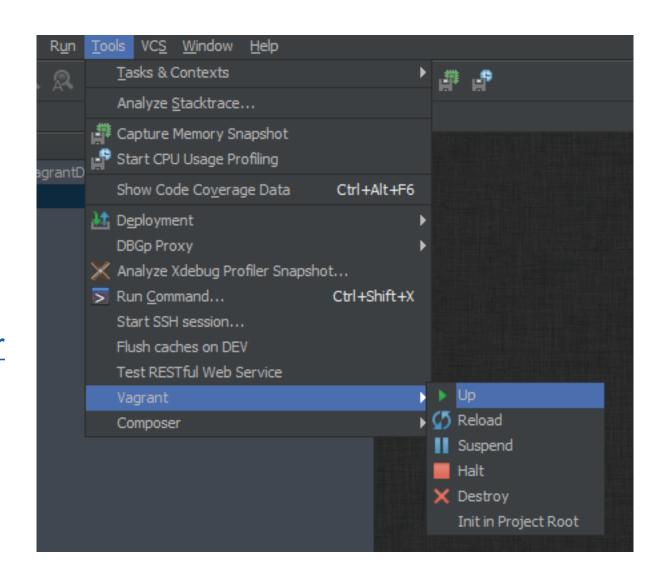


Vagrant

Vagrant is a tool which helps us create reproducible development environments by scripting a virtual machine.

See

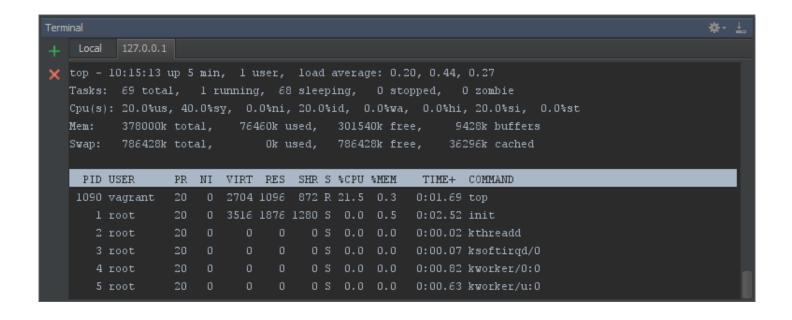
http://blog.jetbrains.com/phpstorm/2013/08/vagrant-support-in-phpstorm/





Remote SSH Terminal

Connect to a remote SSH server. Provides a full SSH terminal in the IDE.





Remote SSH External Tools

Invoke remote commands over SSH without having to manually log in to the remote server.

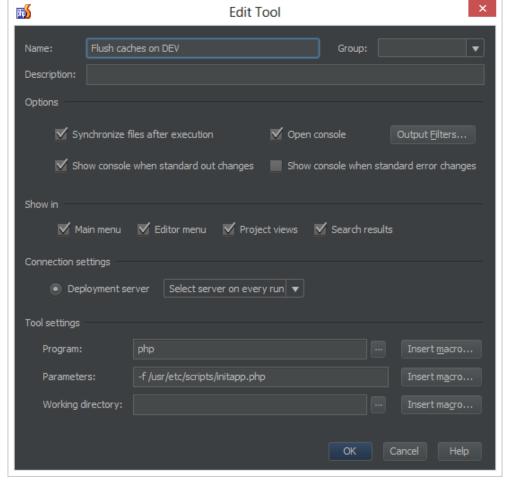
Add them to PhpStorm menus for easy access.

Assign keyboard shortcut.

http://confluence.jetbrains.com/display/PhpStorm/Using+the+PhpStorm+built-

in+SSH+terminal+and+remote+SSH+external+tools #UsingthePhpStormbuilt-

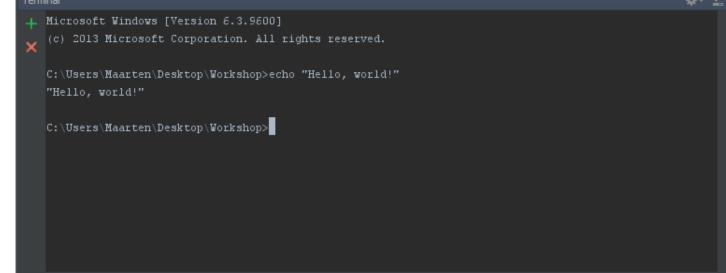
inSSHterminalandremoteSSHexternaltools-WorkingwithremoteSSHexternaltools





Local Terminal

Provide a local terminal. Works on any platform supported by PhpStorm.





Ctrl+Space / Ctrl+Shift+Space



Ctrl+Space / Ctrl+Shift+Space



Plugins



PhpStorm = IntelliJ IDEA – JAVA + plugins

Base IDE enriched with plugins

Some plugins are for paid IDE only

Which is cool: WebStorm features can be installed in PhpStorm

A lot of free / open source plugins at http://plugins.jetbrains.com/?phpStorm

Install from IDE Settings | Plugins



Some interesting JetBrains plugins

LiveEdit - view changes live in browser and vice-versa

NodeJS - install Node.js packages (NPM) in a similar way to Composer

IdeaVim - adds VIM capabilities to the IDE

Handlebars/Mustache and EJS - plugins for working with client-side template engines

JSTestDriver and Karma - run JavaScript unit tests

Puppet Support - provides editor support for puppet, very conventient with Vagrant

. . .



Some interesting open source plugins

'Copy' on steroids - copy rich text from the editor

Markdown - provides Markdown editor support and syntax highlighting

BashSupport - support bash files in editor

AngularJS - support for AngularJS

Symfony, Yii, CakeStorm, ... - framework-specific plugins

CodeGlance - the editor scrollbar on steroids

EditorConfig - support for EditorConfig settings

Get Gist - fetch a Gist from GitHub and insert it into code



There is much more...



What we did not cover...

Be sure to try these afterwards!

```
File Watchers – monitor a file and run command when it changes (e.g. LESS to CSS)
```

Google App Engine – work with GAE development environment and deploy

Drupal Support – project support, code style, hooks, ...

Live Edit – view changes live in browser and vice-versa

Issue Tracker - open and browse issues from YouTrack, JIRA, GitHub, ...

HTML, CSS, JS tools

Framework Integration – integrate with Symfony, Yii, ...

GitHub support – pull requests, gists, ...



Resources



Resources

Keyboard reference - http://bit.ly/phpstorm-shortcuts

Blog - http://blog.jetbrains.com/phpstorm/

Web Help - http://www.jetbrains.com/phpstorm/webhelp/

Tutorials - http://confluence.jetbrains.com/display/PhpStorm/Tutorials

Courseware (videos) – http://bit.ly/phpstorm-videos

Webinars - http://blog.jetbrains.com/phpstorm/tag/webinar/

Twitter - https://twitter.com/phpstorm



