



# Java Development Tools

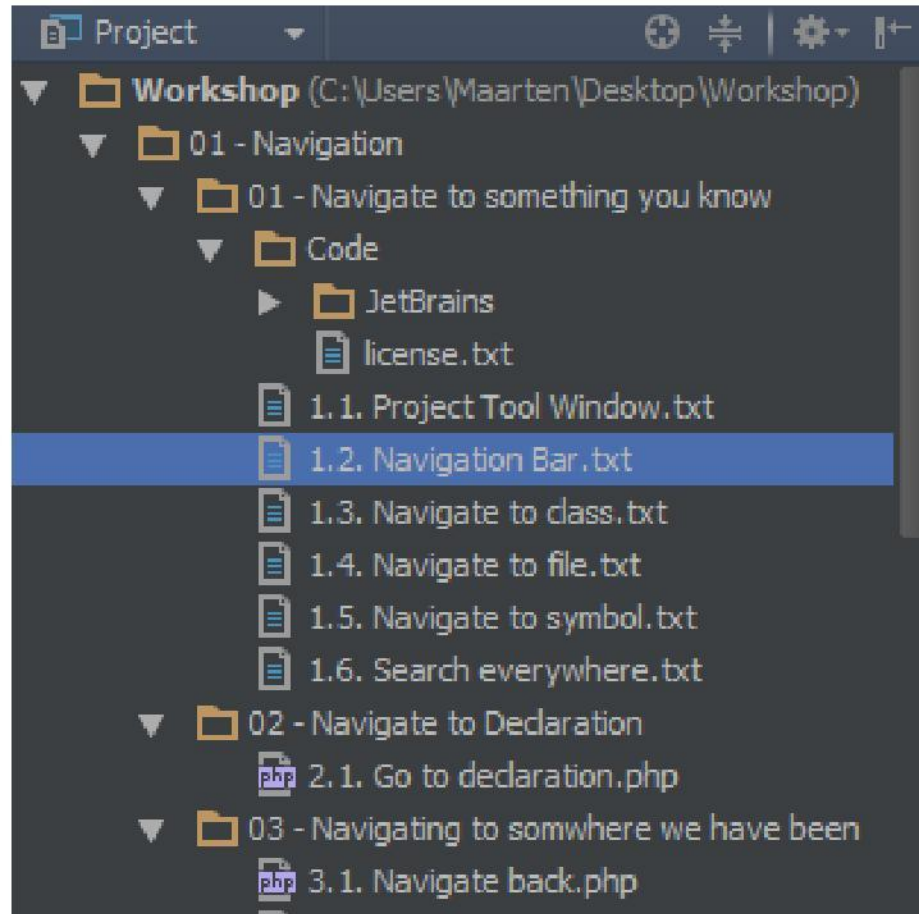
Wòjcech Makùrôt

# IDEA IntelliJ

- checkout from Version Control
- GitHub
- <https://github.com/JetBrains/intellij-samples.git>

# Project Tool Window

Shows all files in project.



Alt+1



Command+1

# Navigation Bar

Navigate through files in project.

Left/Right navigates path.

Up/Down opens other node in path.



  Alt+Home

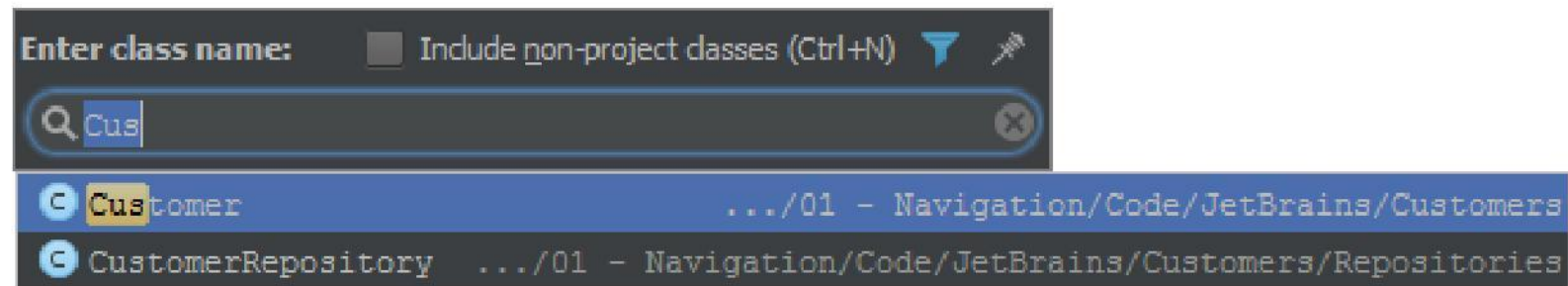
 Command+Up

# Navigate to Class

Navigates to a given class

can be in PHP or any other language  
supported by PhpStorm

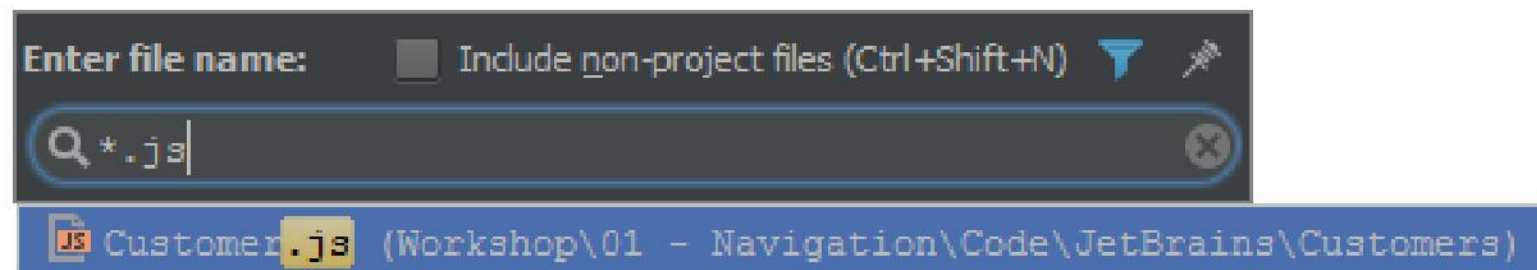
use CamelHumps / wildcards



# Navigate to File

Navigates to a given file  
any file type

use CamelHumps / wildcards



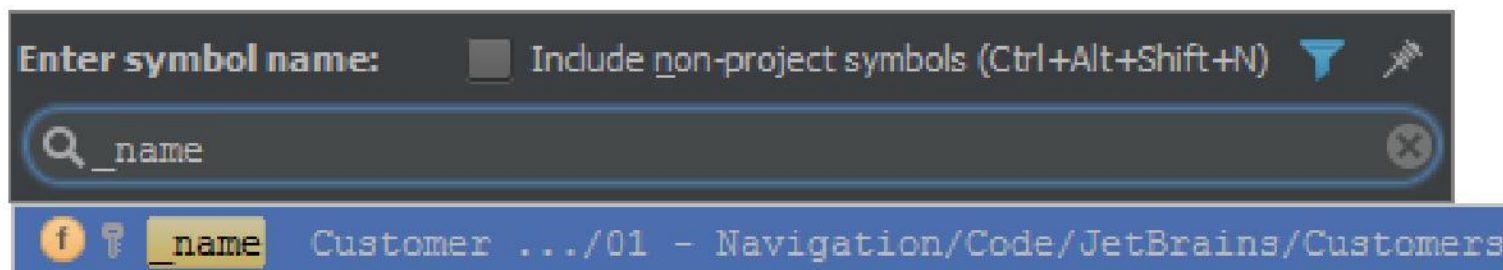
  Ctrl+Shift+N

 Shift+Command+O

# Navigate to Symbol

Navigates to a given symbol  
can be in PHP or any other language  
supported by PhpStorm

use CamelHumps / wildcards



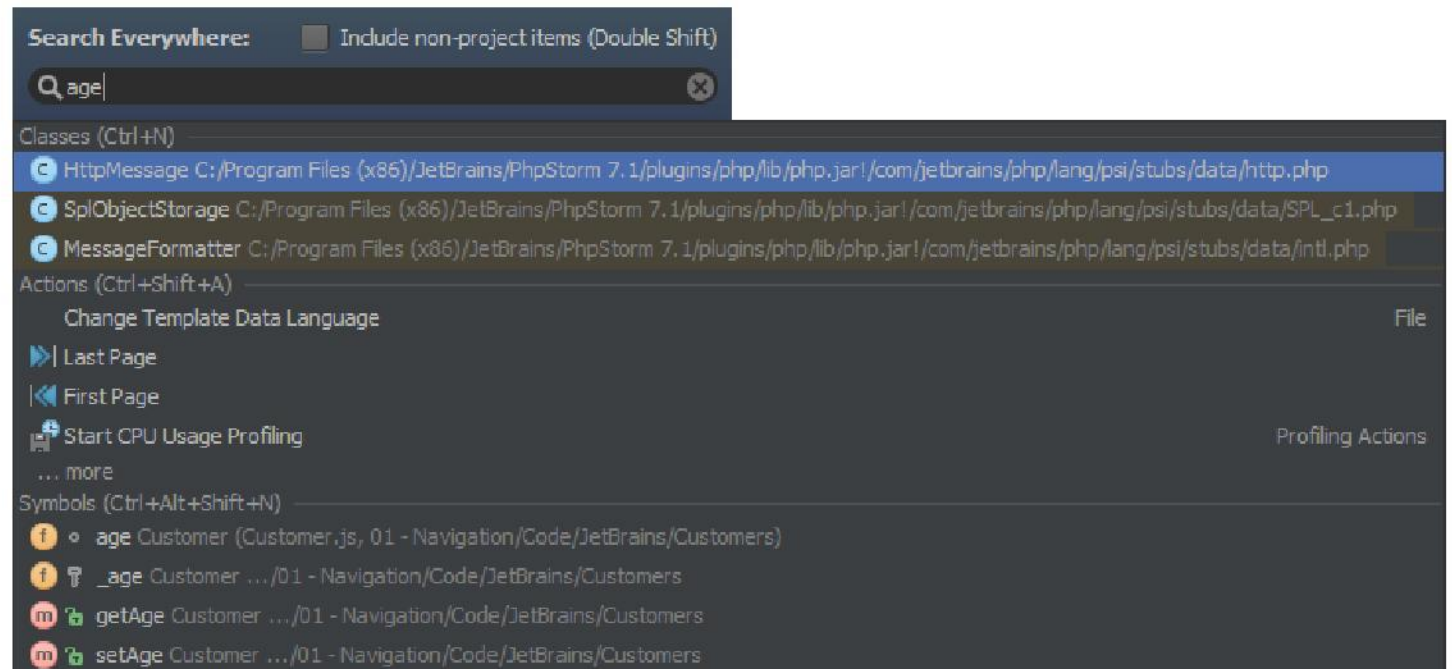
  Ctrl+Shift+Alt+N

 Alt+Command+O



# Search Everywhere

Search classes, file, symbols and  
menu actions all at once  
use CamelHumps / wildcards





# Navigate to Declaration

Ctrl-click (or Command+Click) on  
hyperlink  
or use shortcut

```
// 1. Ctrl+Click on the Customer symbol  
function Customer::construct($name, $age) : Customer  
// 3. Go to Declaration for the $age variable passed  
$person = new Customer($name, $age);
```

```
/**  
 * @return int  
 */  
public class Customer {  
    {  
        return $this->_age;  
    }  
}
```



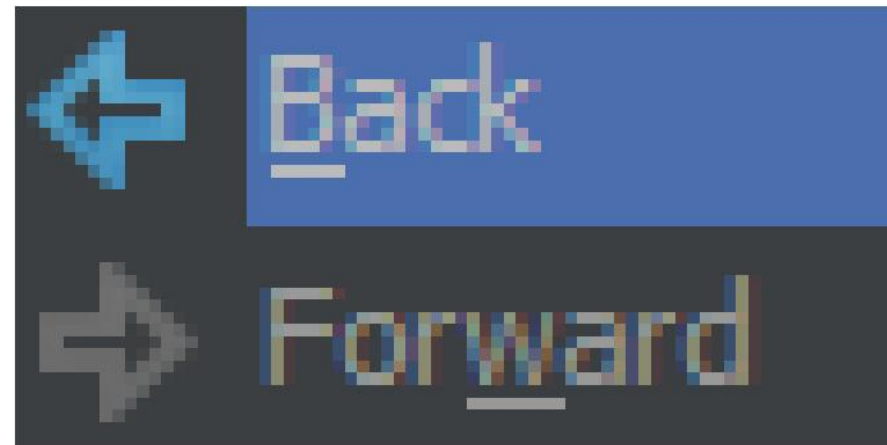
Ctrl+Click or Ctrl+B



Command+Click or Command+B

# Navigate Back / Forward

Use the keyboard shortcut



Ctrl+Alt+Left / Right



Alt+Command+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



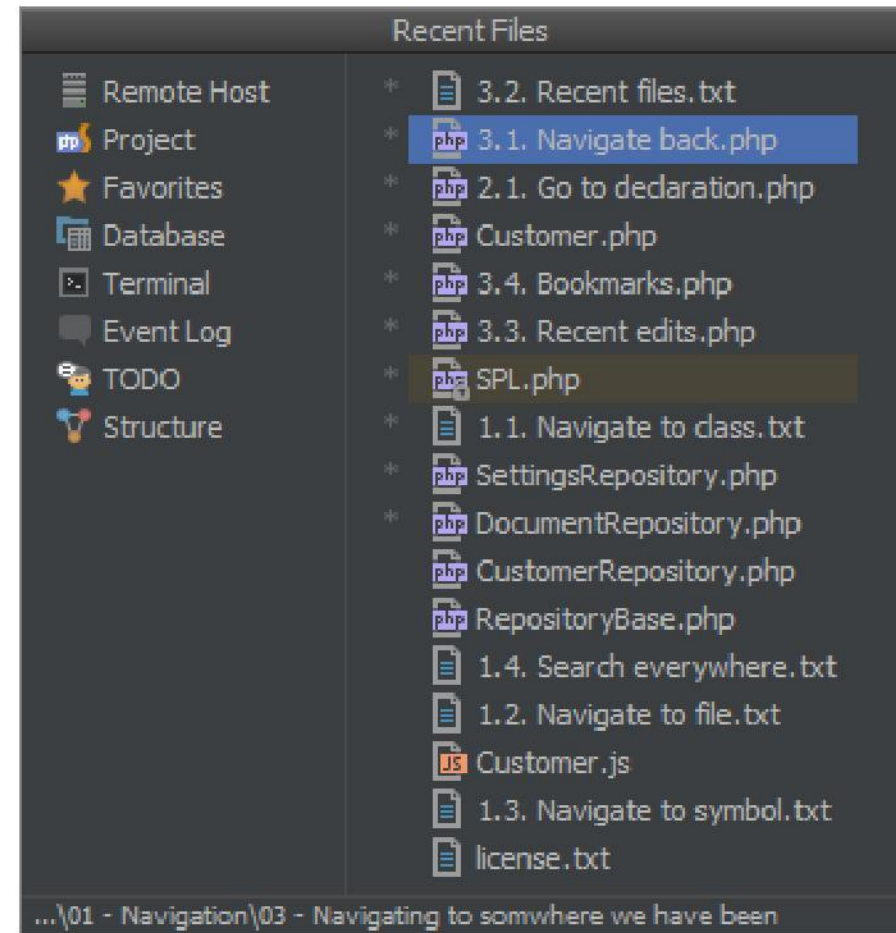
Control+Down / Control+Up

# Recent Files

List of recent files  
use CamelHumps / wildcards

  Ctrl+E

 Command+E



# 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

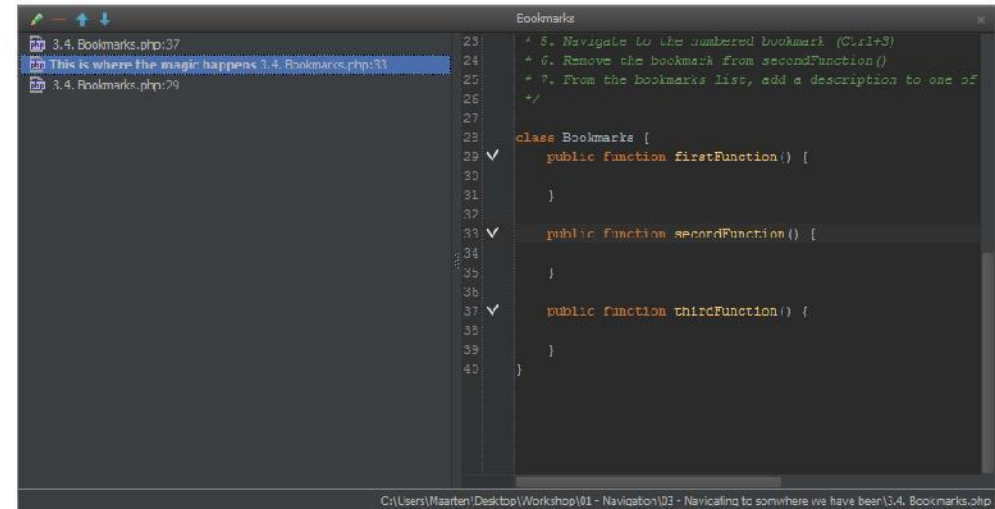


F3 Toggle Bookmark

Alt+F3 Toggle Numbered Bookmark

Command+F3 Show bookmarks

Ctrl+0..9 Navigate to numbered bookmark





# Highlight Usages in File

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

Esc to clear highlighting.

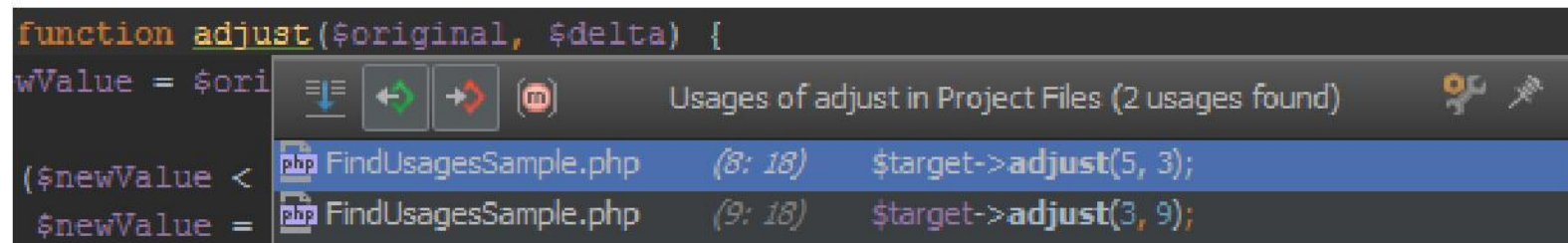
  Ctrl+Shift+F7

 Shift+Command+F7

```
public function adjust($original, $delta) {  
    $newValue = $original + $delta;  
  
    if ($newValue < self::MIN_VALUE) {  
        $newValue = self::MAX_VALUE;  
    }  
  
    if ($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.



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

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

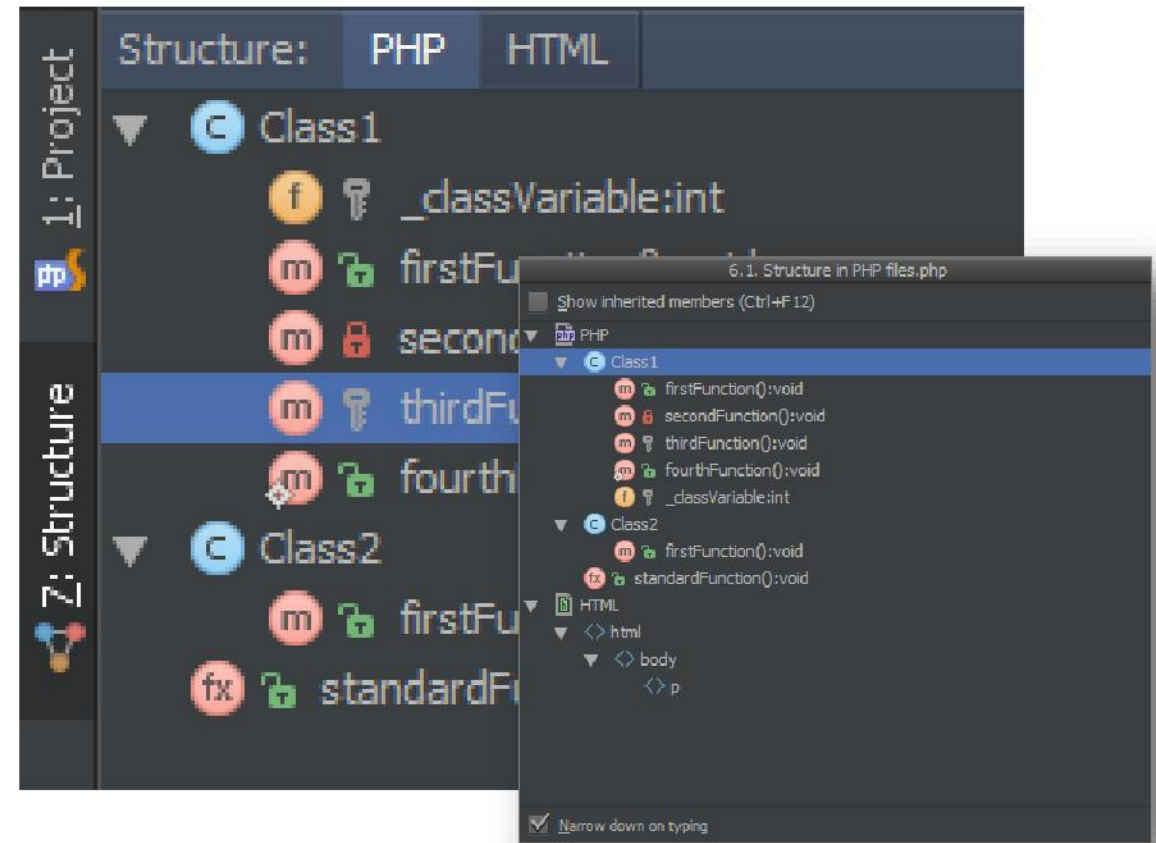
# File Structure Tool Window

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

Also shows HTML, JavaScript, CSS, ...

  Alt+7 (Ctrl+F12 for popup)

 Command+7 (Command+F12 for popup)



# 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->  
    // f Age int  
    // m basicCompletion () void  
    // f Name string  
    // m run () 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.

```
class ImportCompletion
    implements ICu {
}
```

 **ICustomer** (Navigation4\JetBrains\Customers) Navigati  
Press Ctrl+Period to choose the selected (or first) suggestion and insert a dot afterwards >>



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



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

# Selecting Code

Various ways of selecting code.

```
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();  
        }  
    }  
}
```



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



Alt+Up / Down



# Column Selection

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



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

# 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)

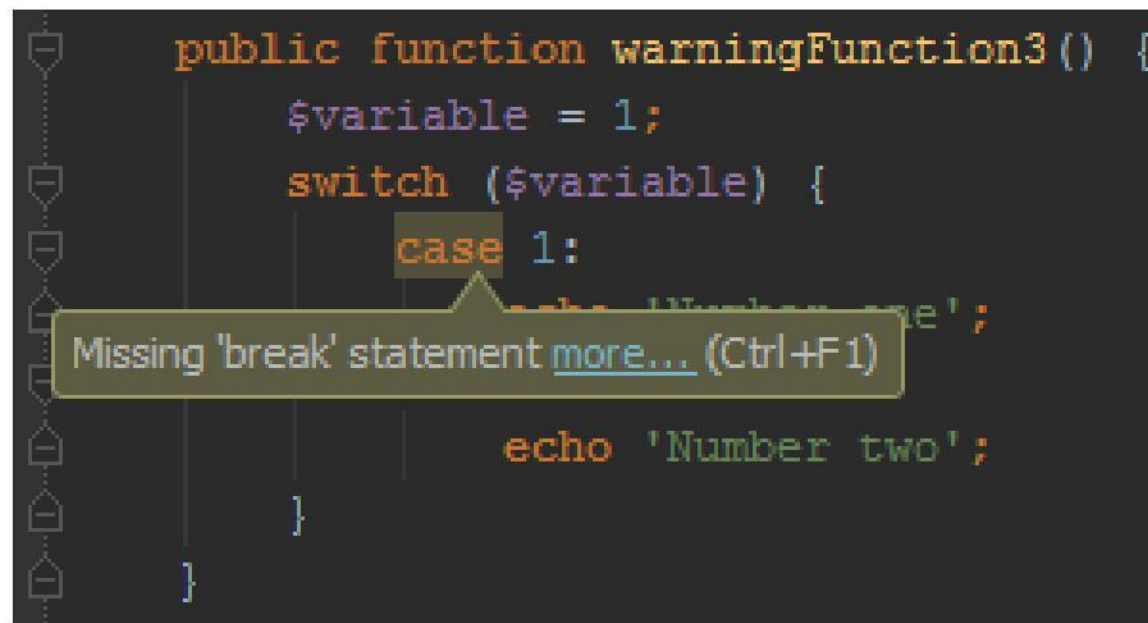
# Highlights

In-editor highlighting of code issues.

- Errors
- Warnings
- Suggestions
- Hints
- Dead Code

Can be suppressed.

Support for PHP Code Sniffer / PHP Mess Detector.



# Quick Fixes

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



Alt+Enter





Alt+Enter


# Navigation

Navigate back and forth between code issues.

Next Highlighted Error

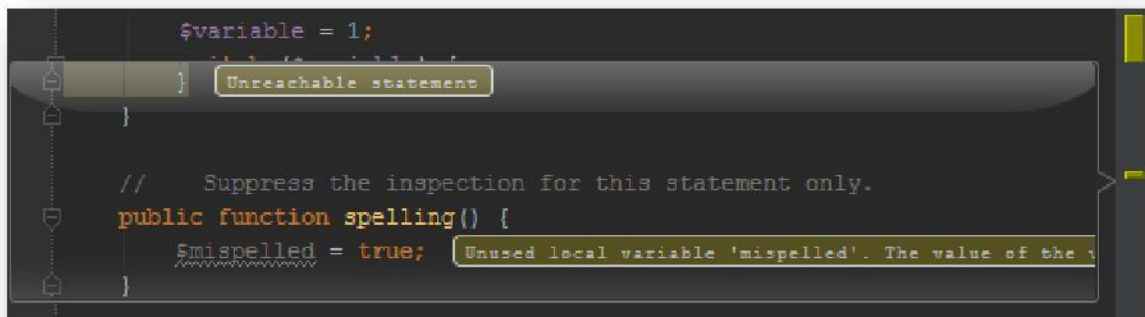
Previous Highlighted Error

  F2 / Shift+F2

 F2 / Shift+F2

# Gutter and Lens

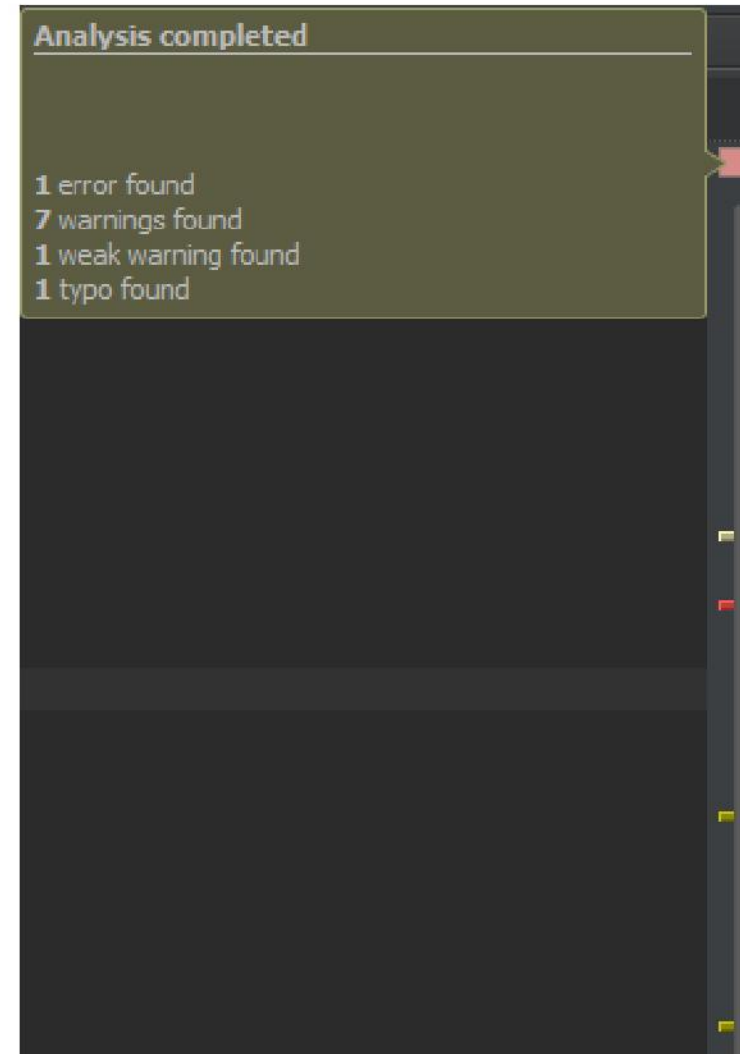
Right gutter displays error information. Use Lens mode for preview.



```

$variable = 1;
}
// Suppress the inspection for this statement only.
public function spelling() {
    $misspelled = true;
}
    
```

The screenshot shows a code editor with a gutter on the right. A tooltip is visible over the closing brace of the `spelling()` function, displaying the message "Unreachable statement". Another tooltip is visible over the assignment `$misspelled = true;`, displaying the message "Unused local variable 'misspelled'. The value of the variable is not used."



The screenshot shows the 'Analysis completed' panel in the IDE gutter. It displays the following summary:

- 1 error found
- 7 warnings found
- 1 weak warning found
- 1 typo found

The panel is dark-themed with a light-colored header and a list of findings below it.



# Highlighting TODO

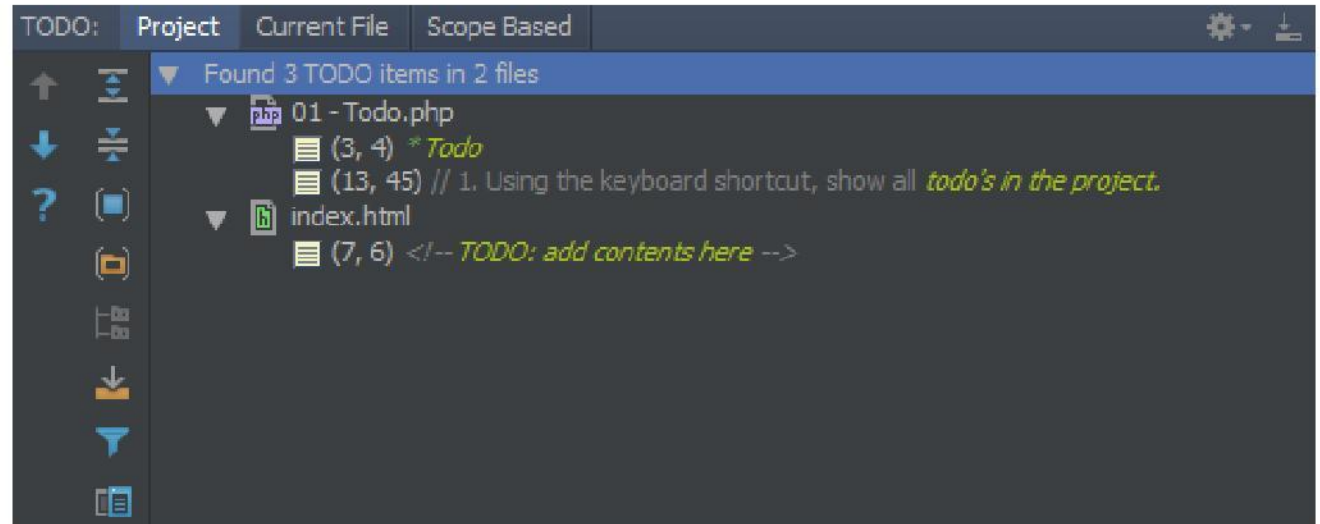
Listing tasks commented in code.

Work in every file type.

Default patterns:

`// todo`

`// fixme`



# Committing Changes

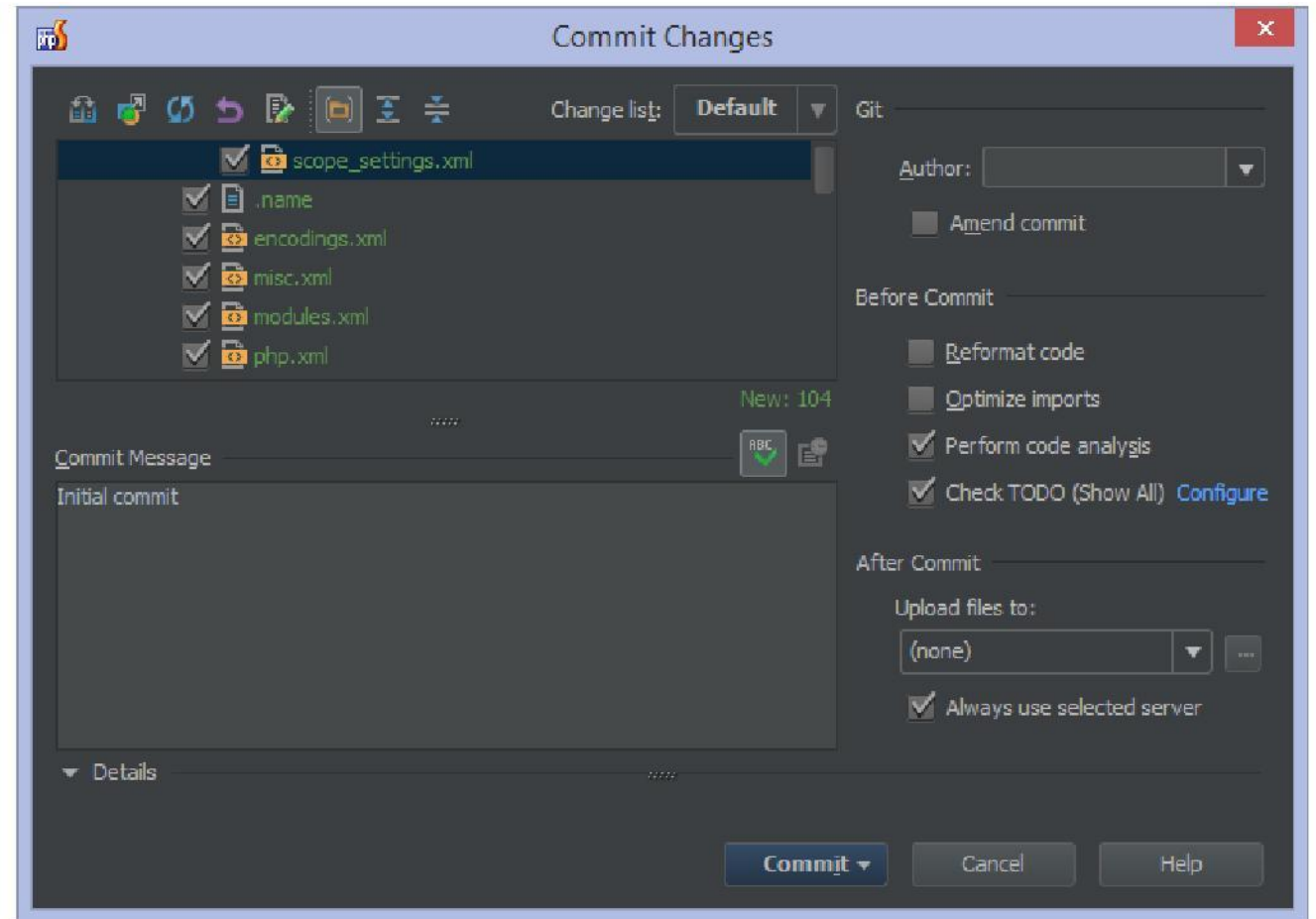
Persisting the current changeset as a logical operation in the VCS, with a comment, author, ...



Ctrl+K

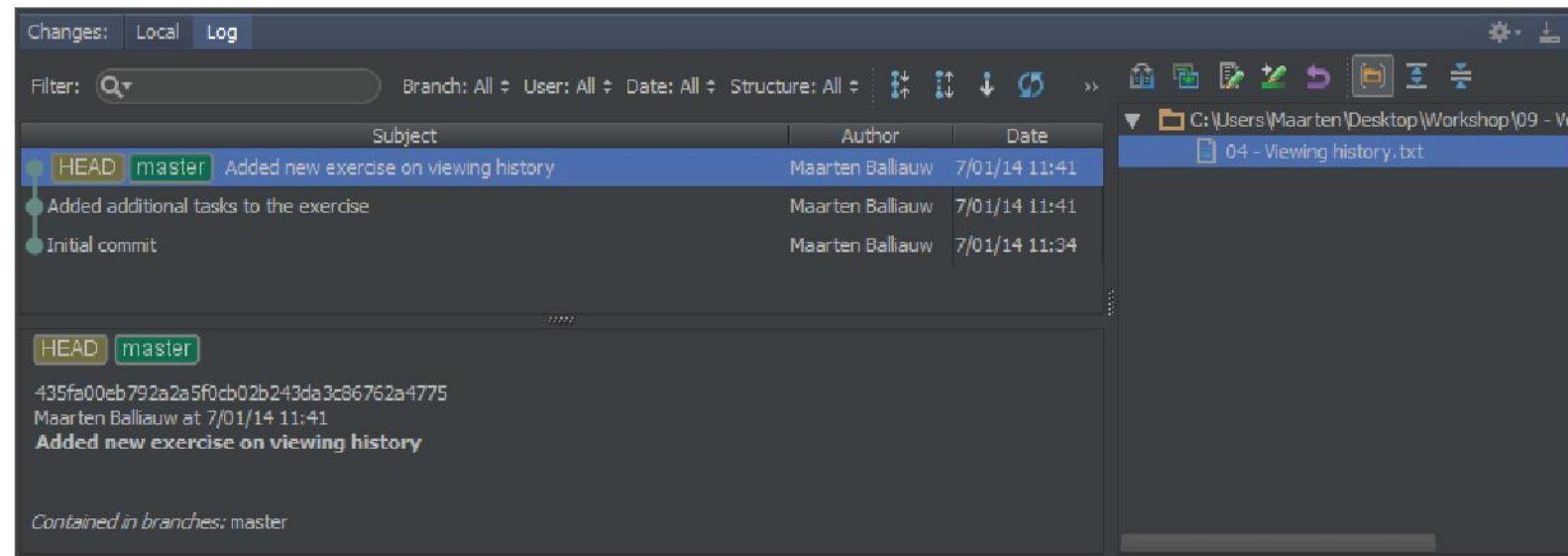


Command+K



# Viewing History

View all information related to previous commits.



Alt+9

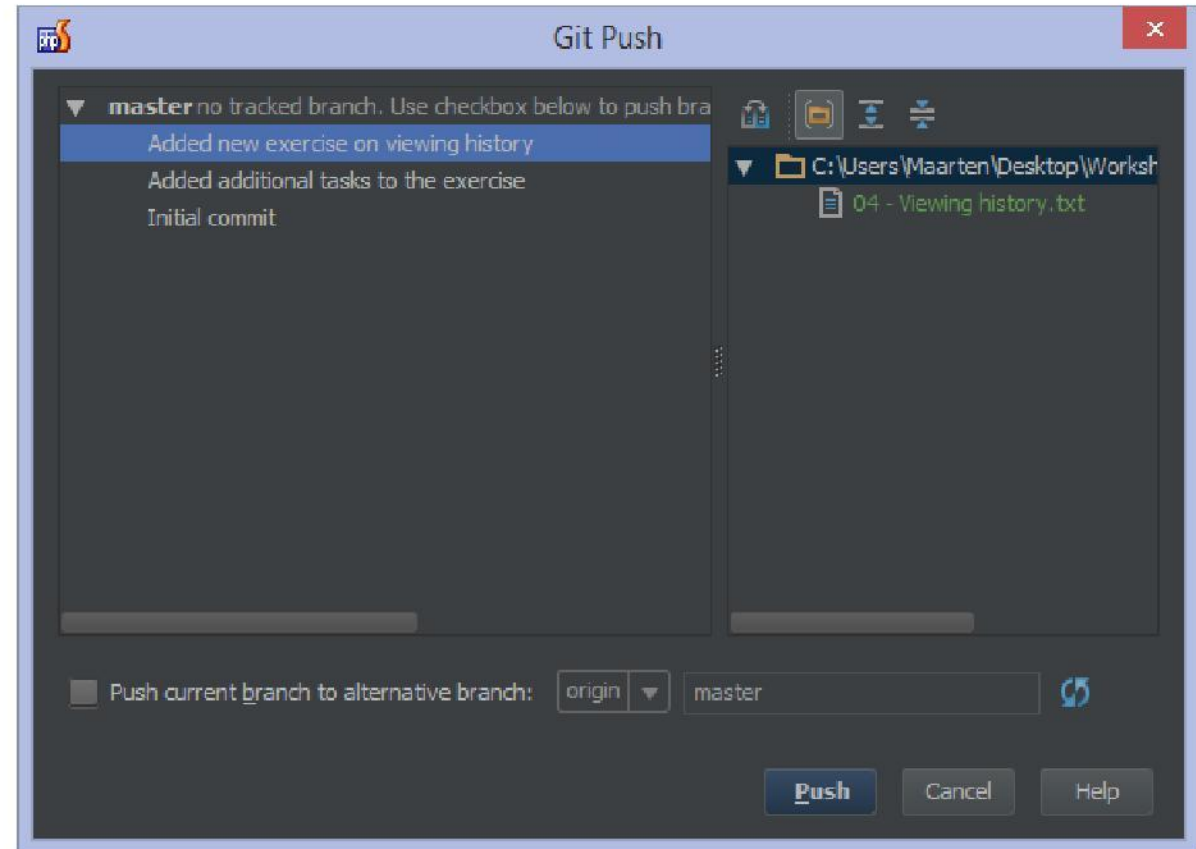


Command+9

# Git/Mercurial: Push/Pull

Persist local copy of VCS repository  
to remote copy.

Ctrl+Shift+K



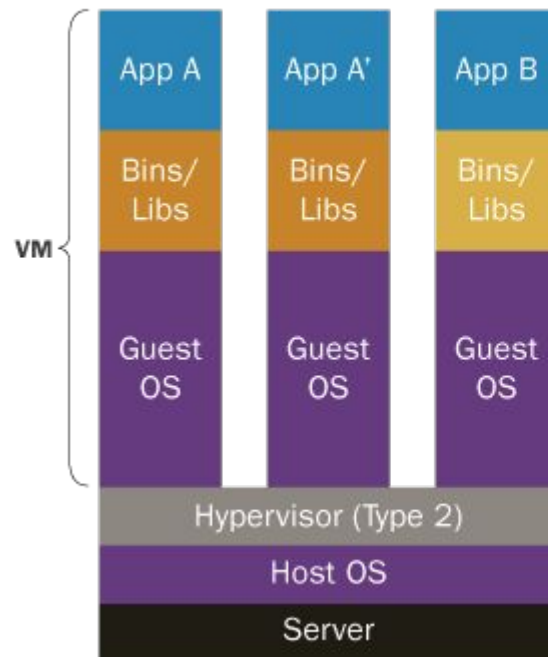
# Formatowanie kodu

Ctrl+Alt+L

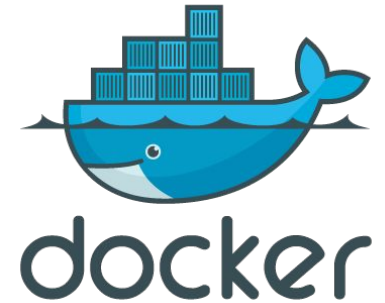
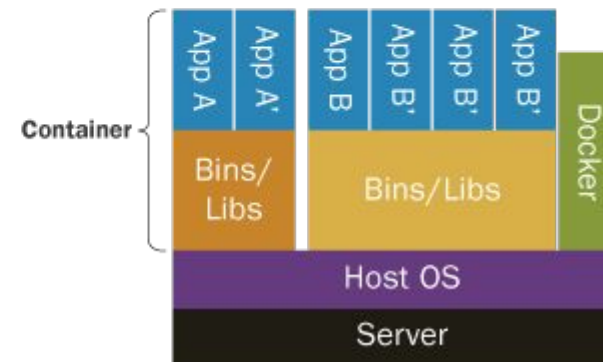
# Docker

- konteneryzacja vs wirtualizacja

## Containers vs. VMs



Containers are isolated, but share OS and, where appropriate, bins/libraries





# Docker

- Terminal
- `sudo usermod -aG docker nazwa_użytkownika`
- przeloguj
- `docker run hello-world`

# Docker

- `docker run --name moja_nazwa -p 2368:2368 -d ghost`



# Docker

- `docker run -d -p 80:80 owncloud`



# Docker

- `docker run --name some-mysql -e  
MYSQL_ROOT_PASSWORD=my-secret-pw -d mysql`
- `docker run --name some-wordpress  
--link some-mysql:mysql  
-p 8080:8080 -d wordpress`



# Docker

- docker images
- docker ps
- docker stop
- docker rm

