

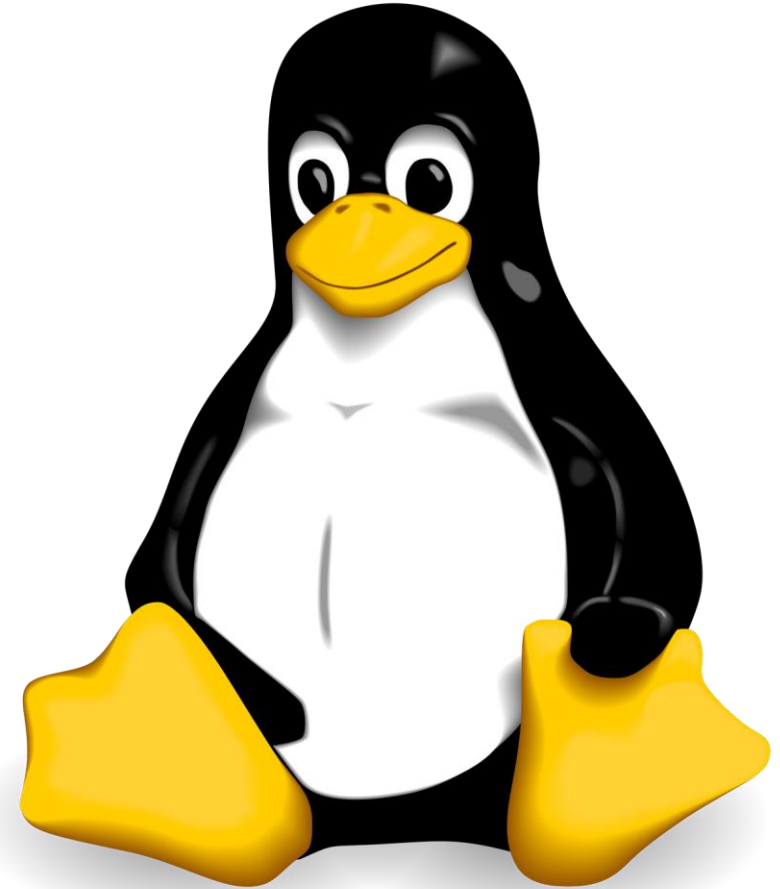


Web Development Tools

Wòjcech Makùrôt

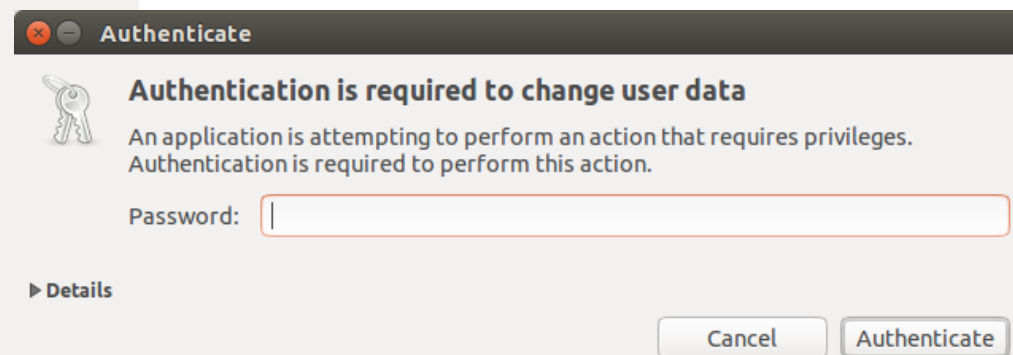
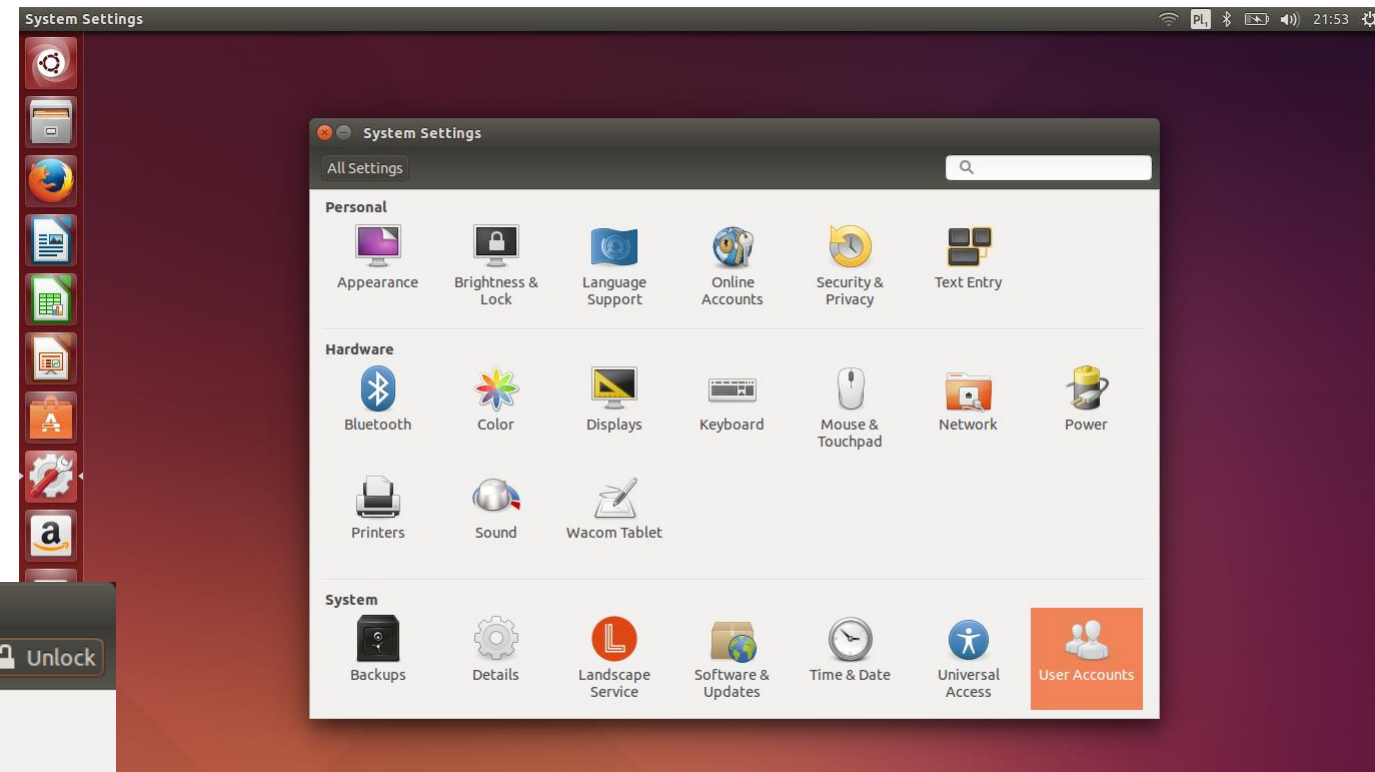
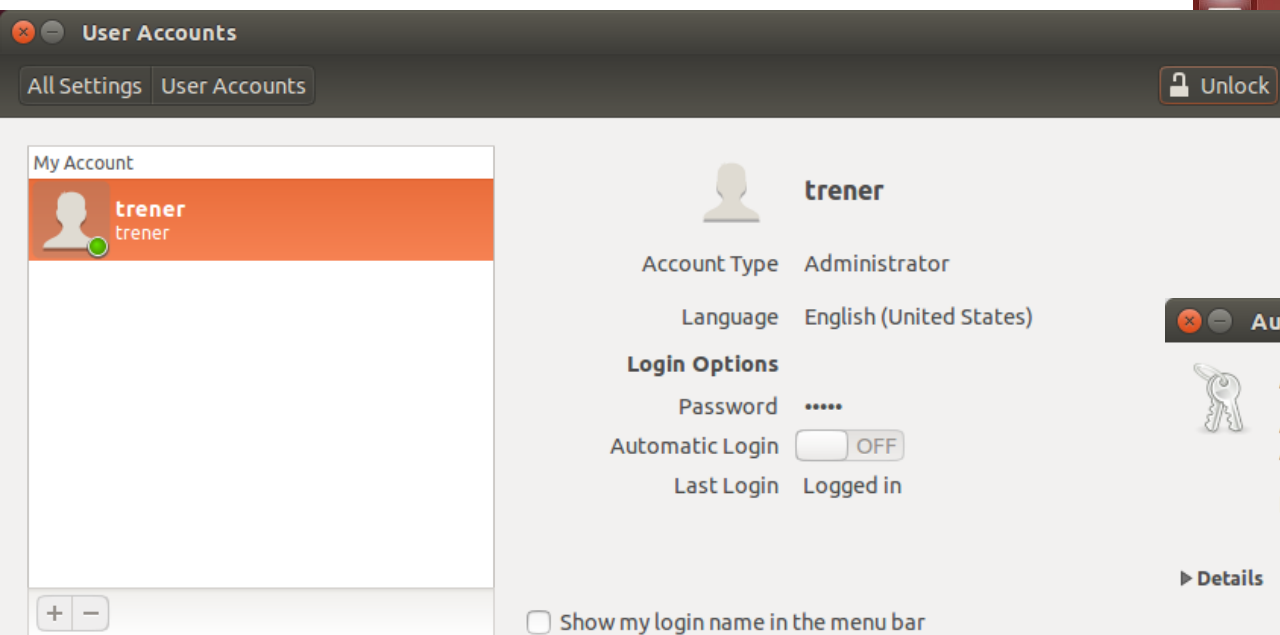
Ubuntu

- kursant / iSAforever



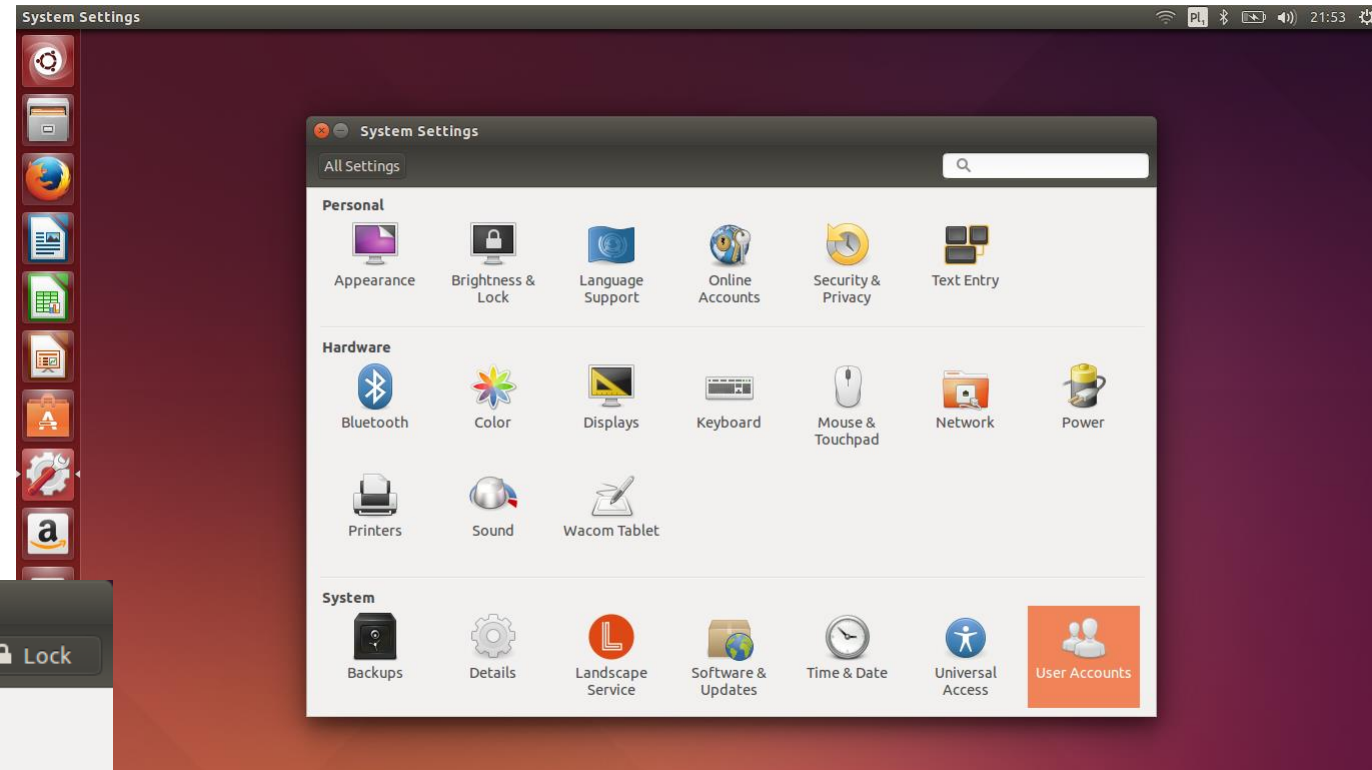
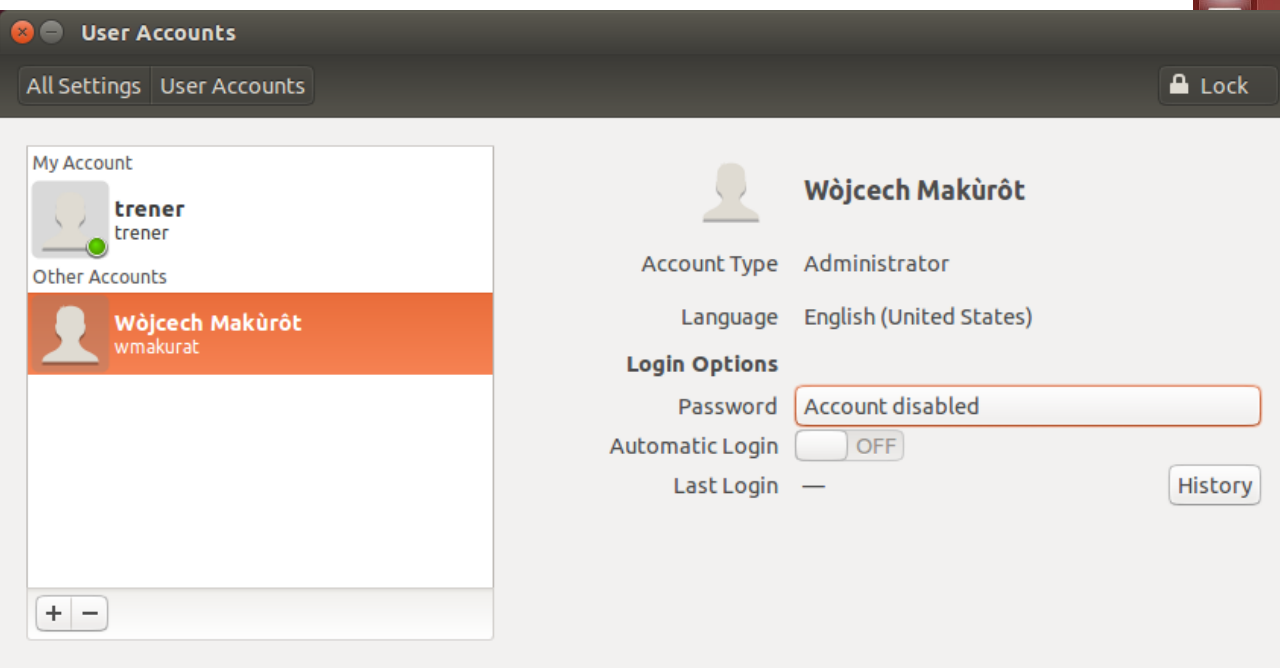
Ubuntu

- dodaj konto osobiste



Ubuntu

- dodaj konto osobiste
- przeloguj się



kontakt

- jfd-zaoczne@infohareacademy.com
- <https://jfdz-201602.slack.com/>

Ubuntu

- Terminal
- Home = \sim = */home/nazwa_użytkownika*
- root & sudo

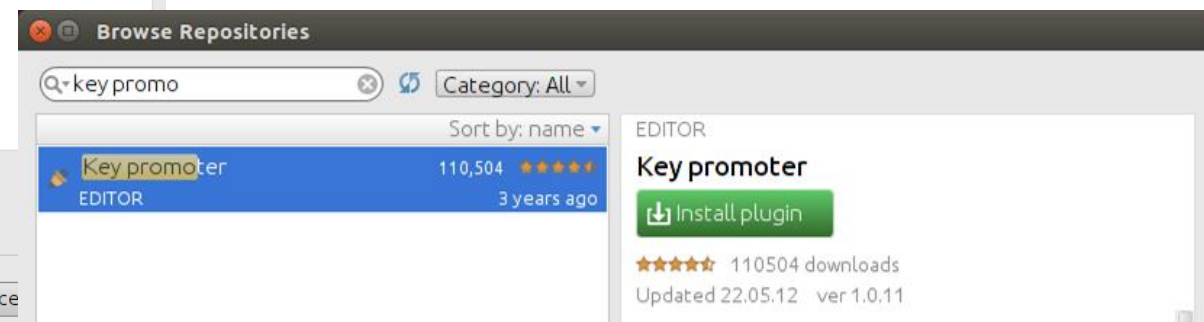
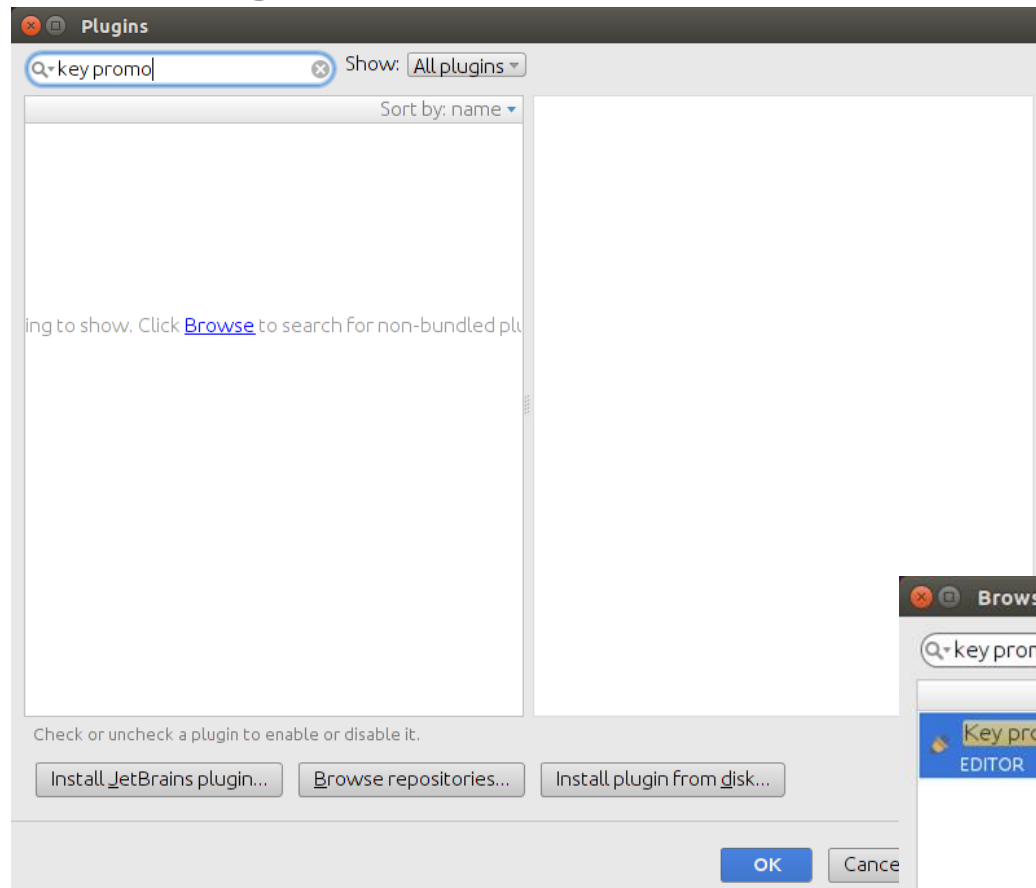
WebStorm

- licencja
 - indywidualnie na e-mail
 - edukacyjna
- uruchomienie
 - `sudo cp -r /home/kursant/tools ~`
 - `~/tools/WebStorm-143.382.36/bin/webstorm.sh`



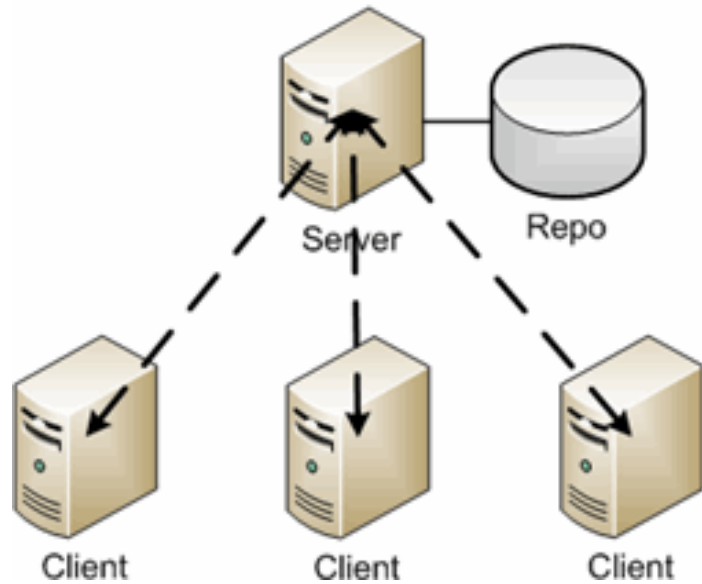
WebStorm

- Pluginy: Key promoter

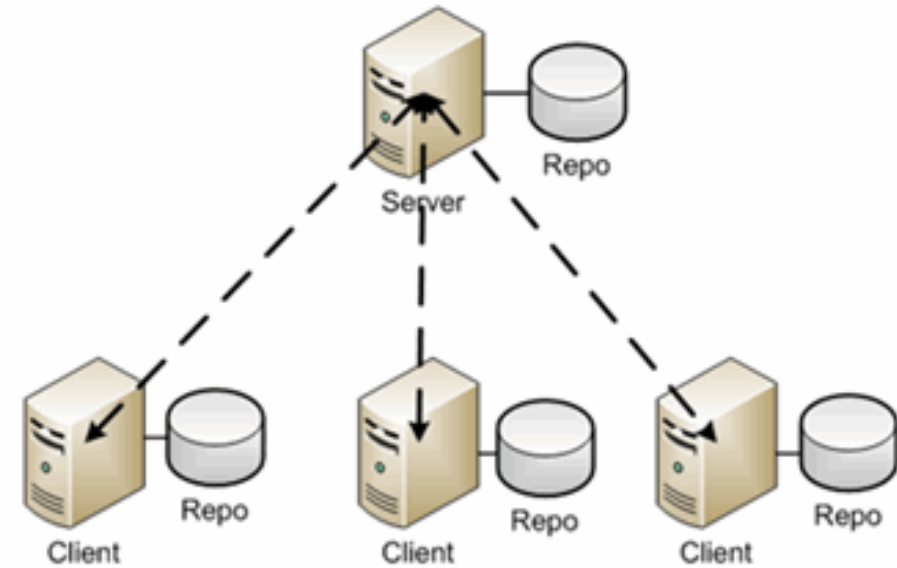


repozytorium kodu

Traditional



Distributed



git

- GitHub
 - github.com/orgs/infoshareacademy
 - załóż konto, prześlij login i nazwę zespołu na robert@infoshareacademy.com



Git User

- `git config --global user.email your.name@domain`
- `git config --global user.name "Your Name"`

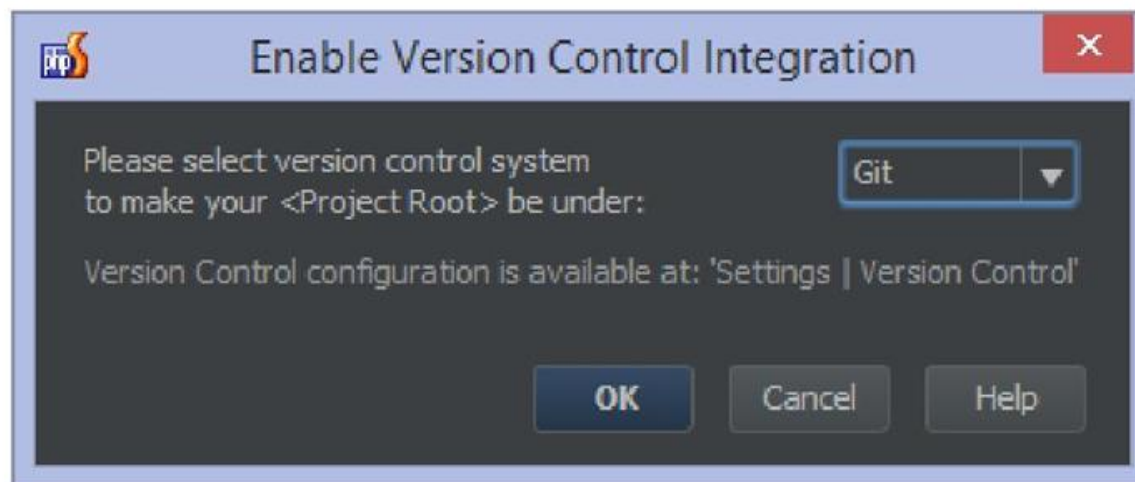
git

- GitHub
 - VCS > checkout from Version Control > GitHub
 - logujemy się
 - wybieramy repozytorium *test*
 - jeśli nie istnieje *Parent Directory*, to go stworzymy, np. jako */home/<nazwa_użytkownika>/workspace*

Enabling VCS integration

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

Use the VCS menu.

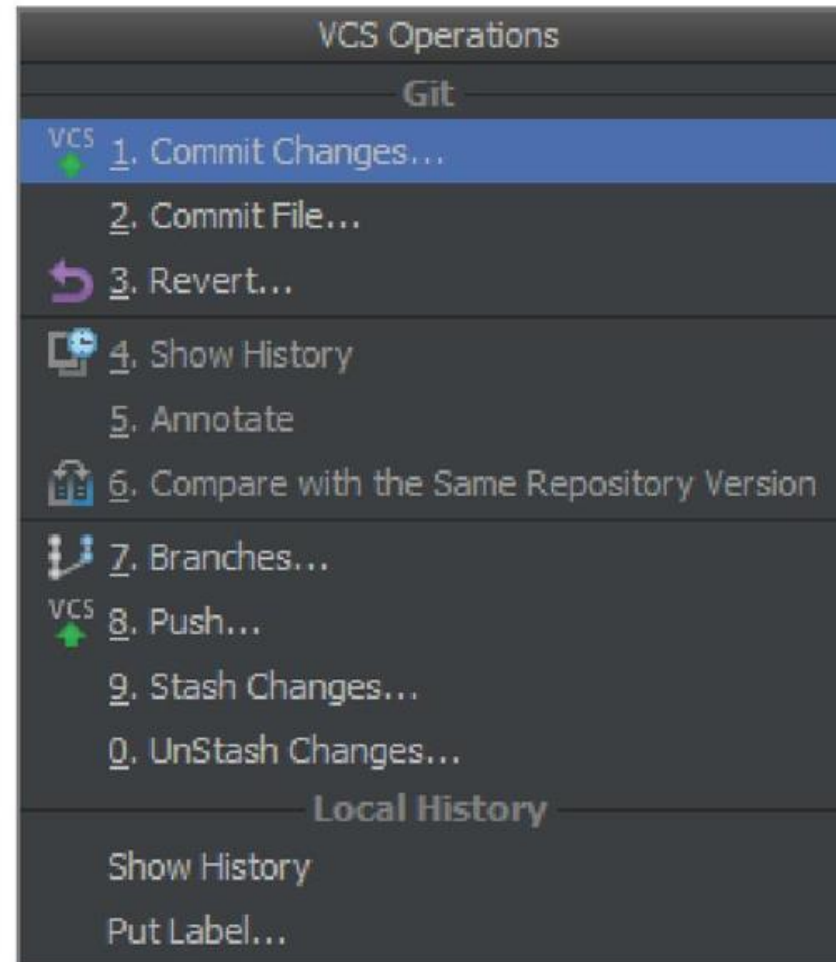


VCS operations

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

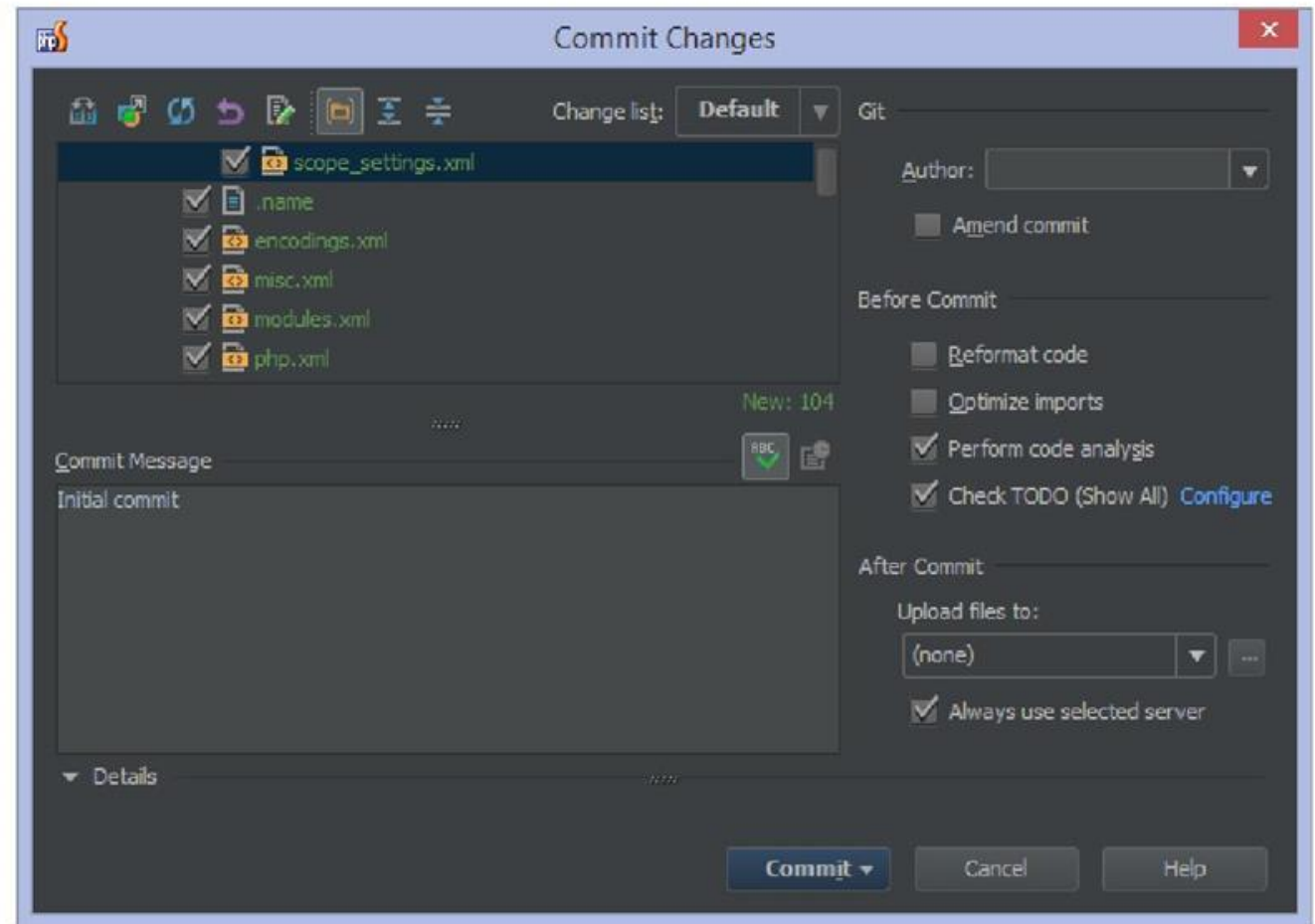
  Alt+Backquote (Alt+`)

 Ctrl+V



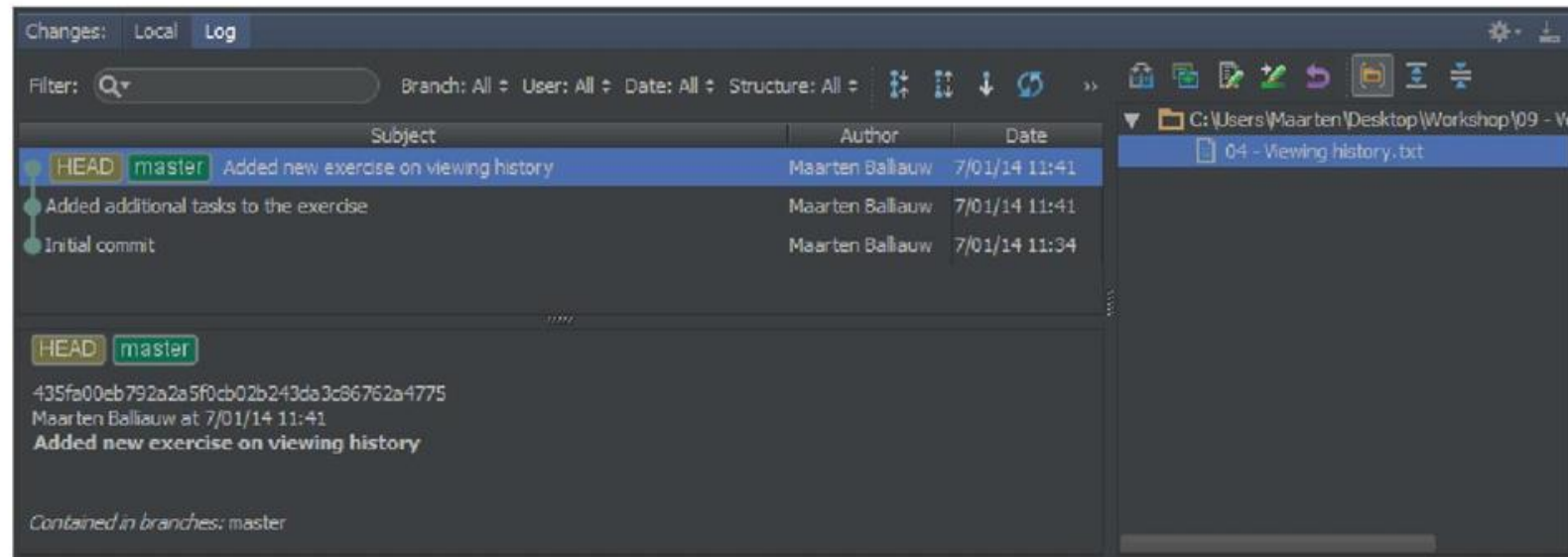
Committing Changes

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



Viewing History

View all information related to previous commits.



Alt+9



Command+9

Viewing Diff

Show changes made to a particular file.



Ctrl+D



Command+D

C:\Users\Maarten\Desktop\Workshop\09 - Version Control\03 - Committing Changes.txt

Ignore whitespace: All ? ⚙️

18b67a2f4e3673e8b2e1e00039fe11ddc9090249 (Read-only)

c59a08aaa6bfc90ace6f05dfcc2a3caae96c0997 (Read-only)

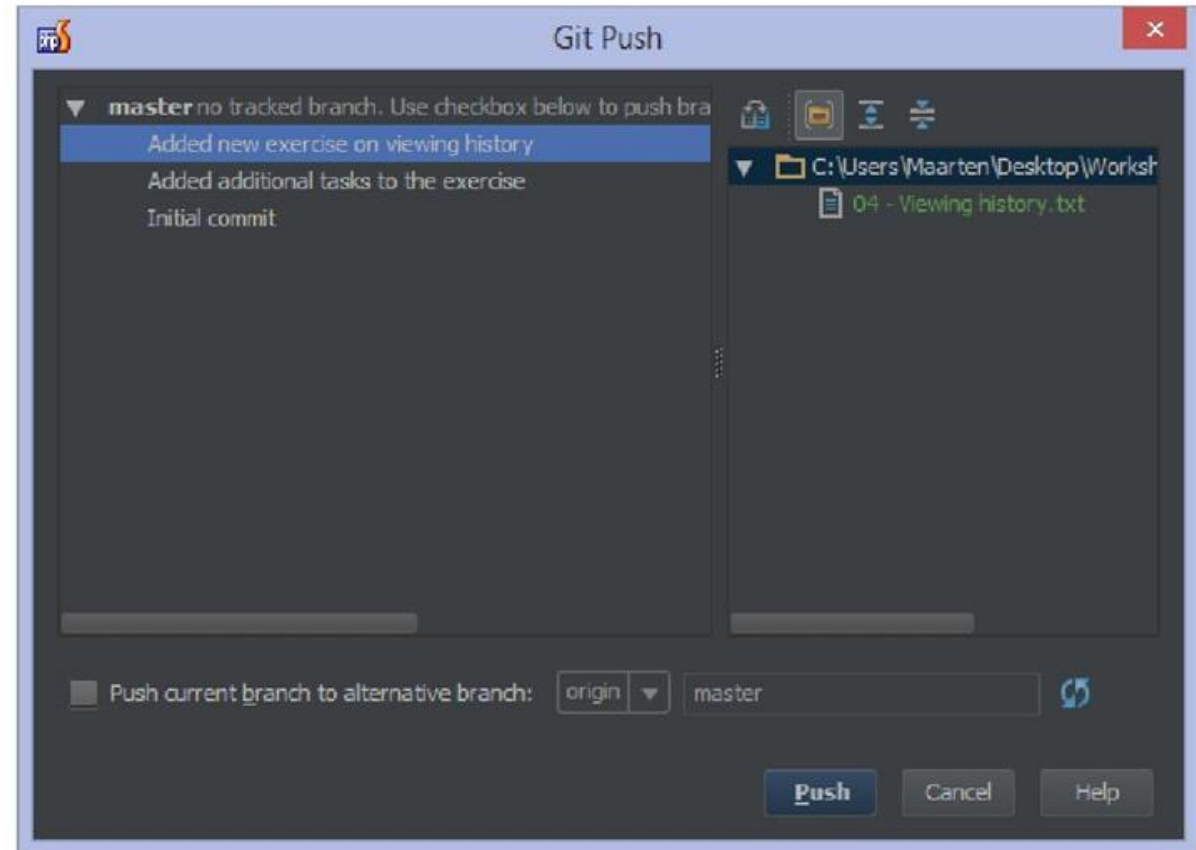
```

1  Committing Changes
2
3  Persisting the current changeset as a logical operation
4
5  Ctrl+K (Windows/Linux)
6  Command+K (Mac OS X)
7
8  1. Commit the current changeset to the Git repository
9  2. The list on top shows changed, added and deleted files
10 Set the commit message to something describing the change
11 In this case this can be "Initial commit" but for a future commit
12 number and a short description.
13 Note that the IDE can automatically reformat code, so you don't
14 have to do it manually. We can also upload changes to a remote server once
15 we have committed them.
16
17 3. Commit the change.
18
19 4. The Project Tool Window will now show files in the Project
20 5. Start typing in the current file (enter your name in the left
21 gutter, denoting a change in the list). In the Project Tool Window, the file color
22 also changes.
23
24 6. Add a line of text below. Note that the editor shows the
25 change.
26
27 7. Commit all changes again and give the commit a message.
  
```

1 difference Deleted Changed Inserted

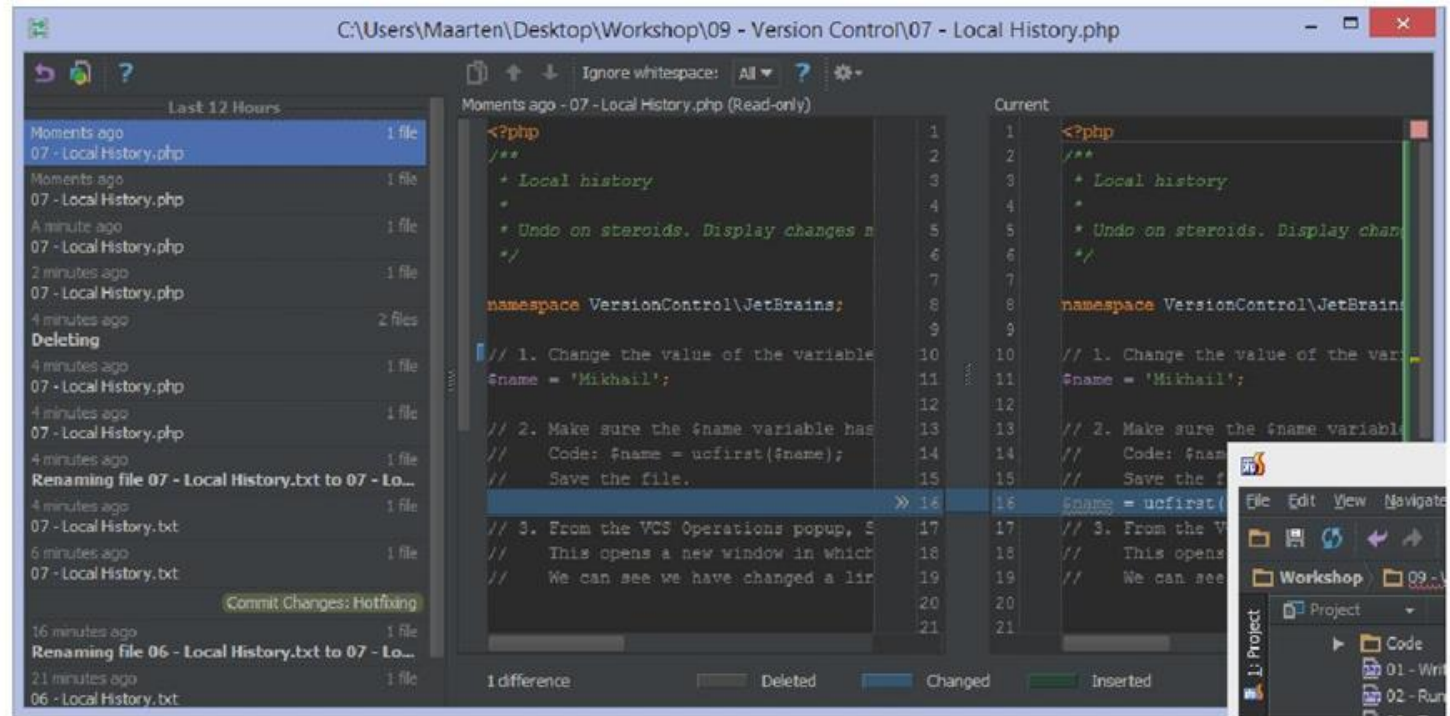
Git/Mercurial: Push/Pull

Persist local copy of VCS repository
to remote copy.



Local history

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



git

- GitHub

- nowy plik tekstowy

- commit

- push

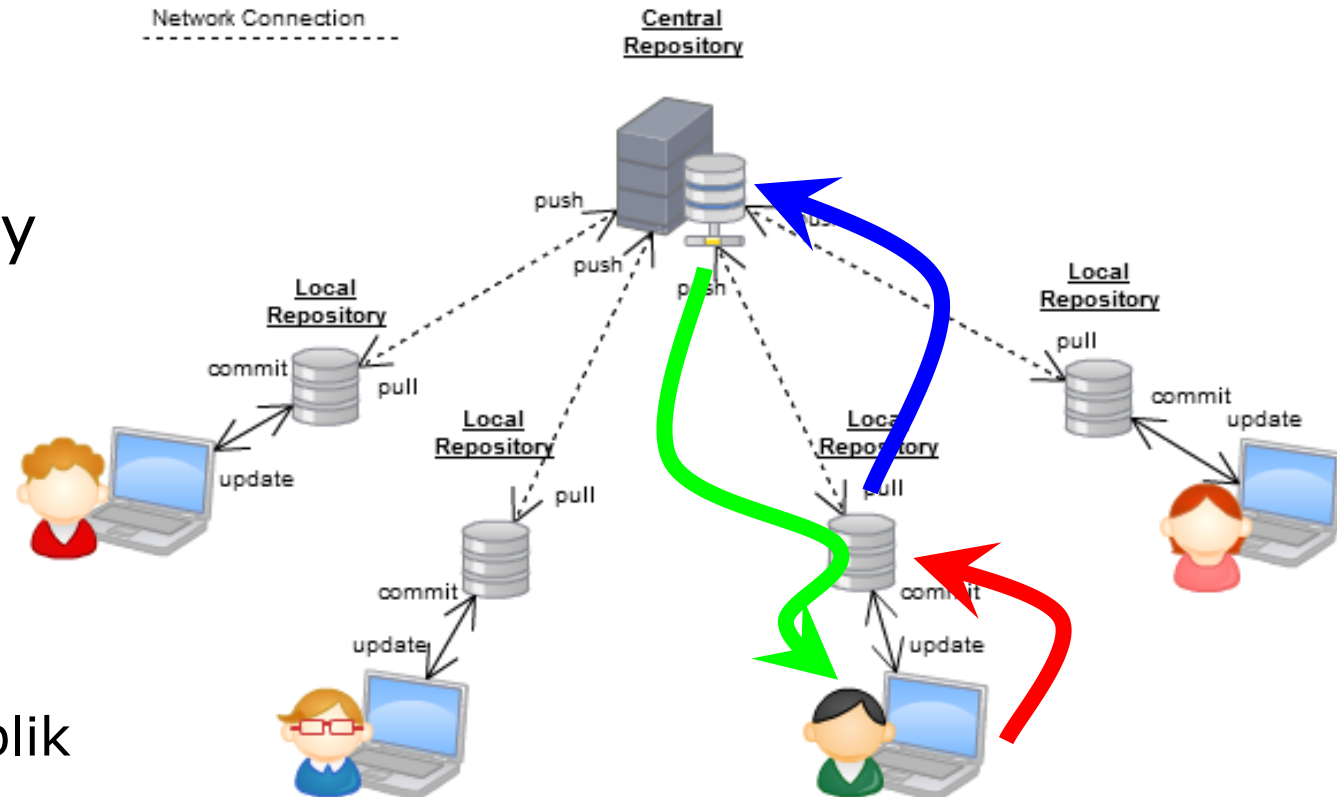
- zmiana pliku

- pull

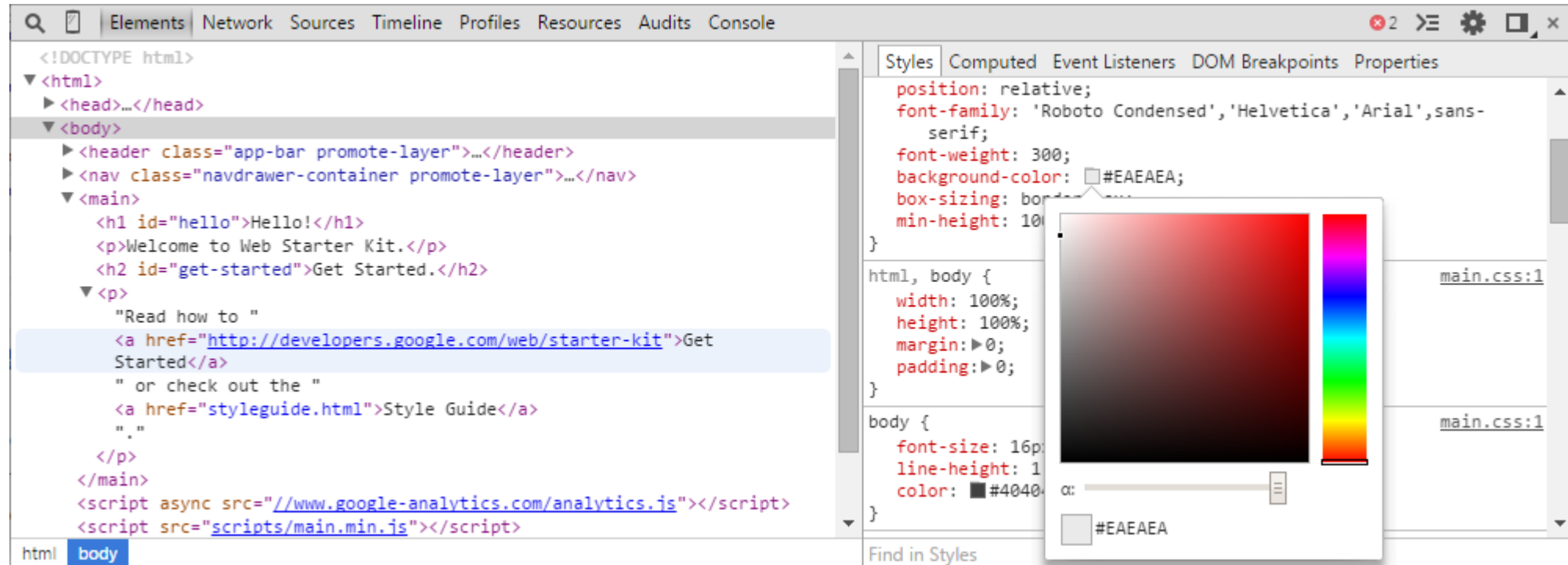
- zmieniamy czyjś plik

- commit

- push



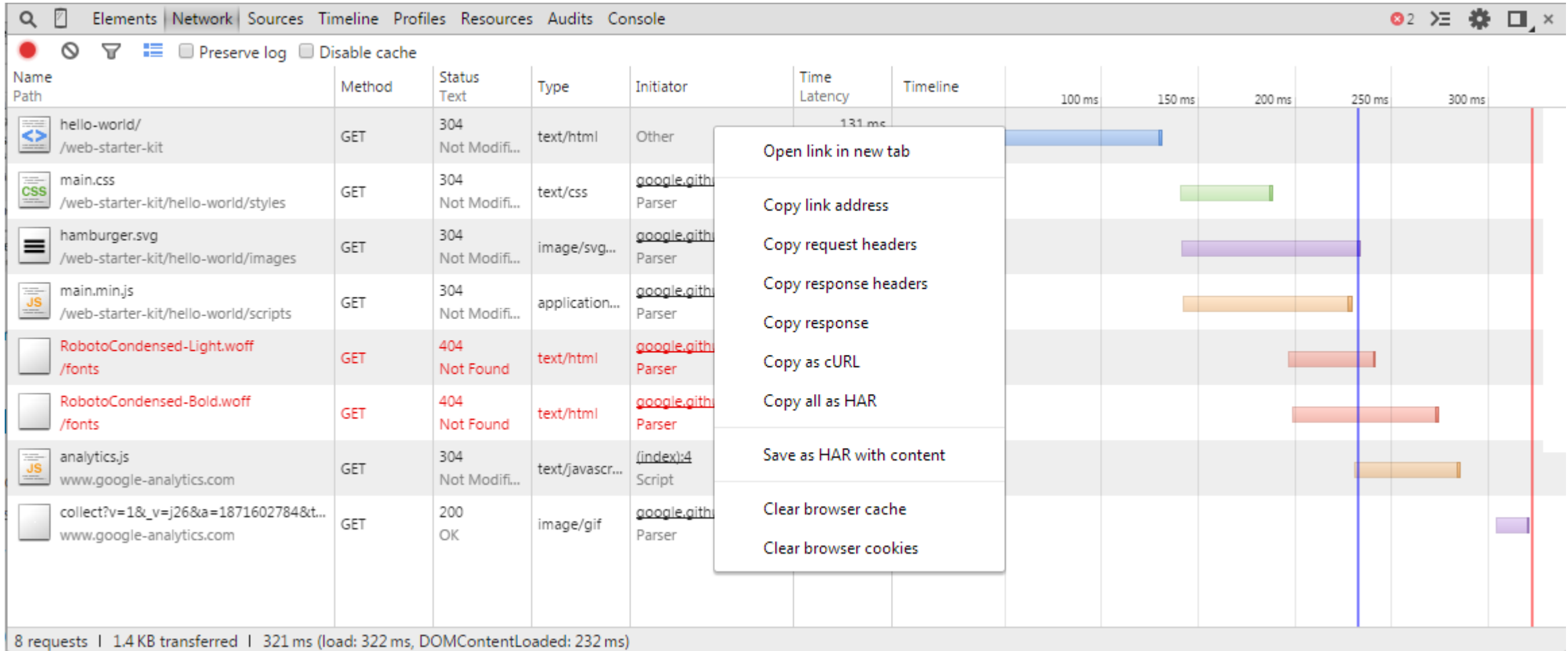
Chrome devtools (F12)



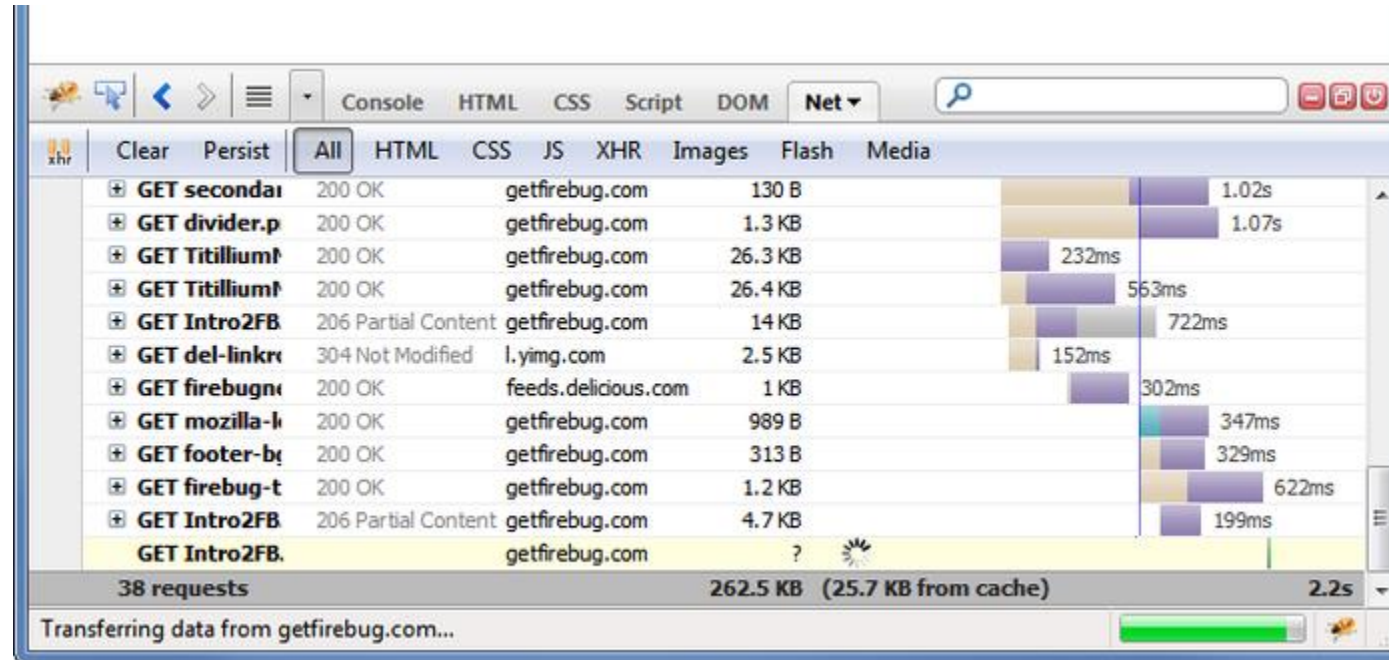
Chrome devtools (F12)

- <http://infohareacademy.com/>
- zmieniamy
 - wyłączaj wybrane style
 - modyfikuj marginesy itp.

Chrome devtools (F12)



Firefox Developer Tools/Firebug (F12)

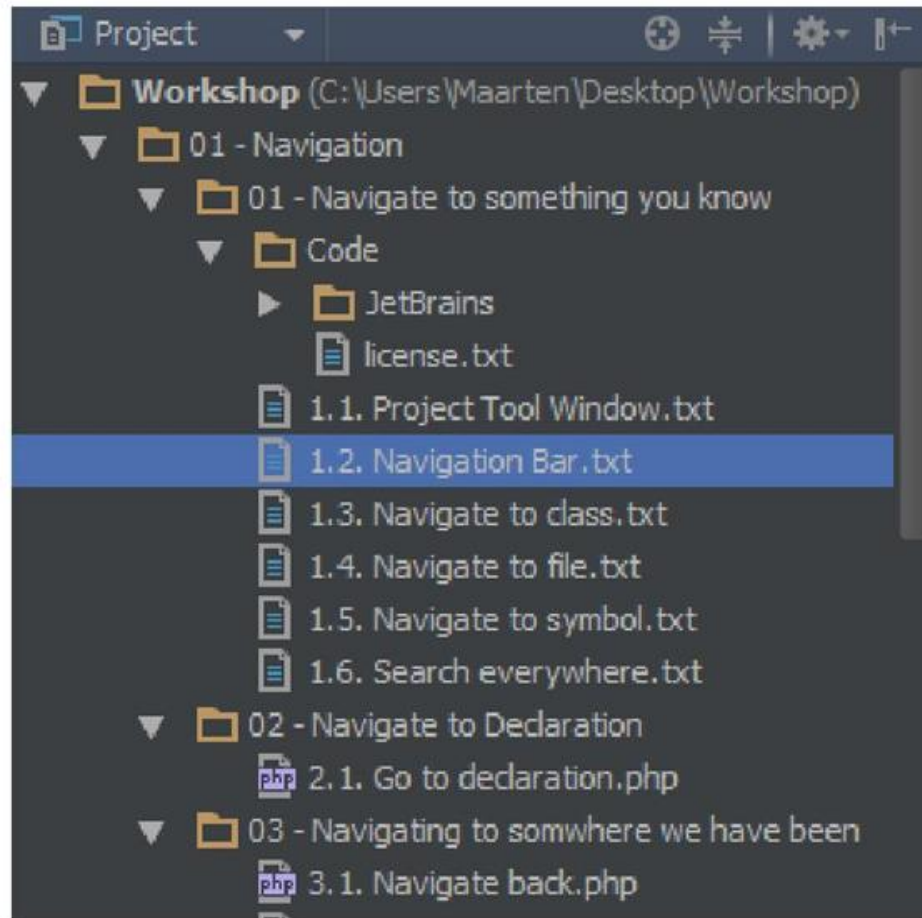


WebStorm

- checkout from Version Control
- GitHub
- <https://github.com/JetBrains/phpstorm-workshop.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

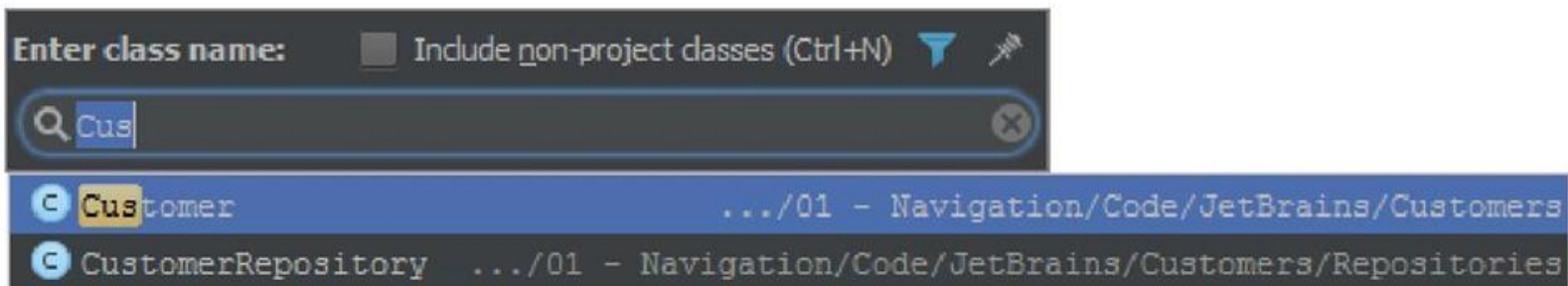
 Command+Up

Navigate to Class

Navigates to a given class

can be in PHP or any other language
supported by PhpStorm

use CamelHumps / wildcards



Ctrl+N

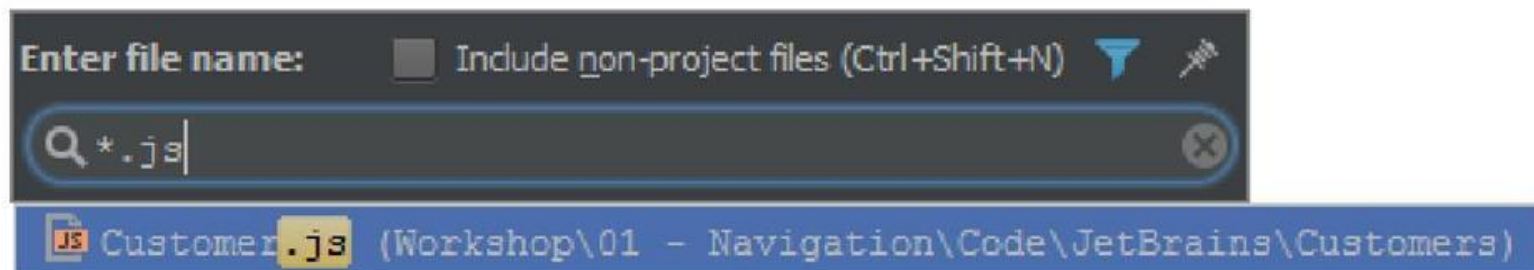


Command+O


Navigate to File

Navigates to a given file
any file type

use CamelHumps / wildcards



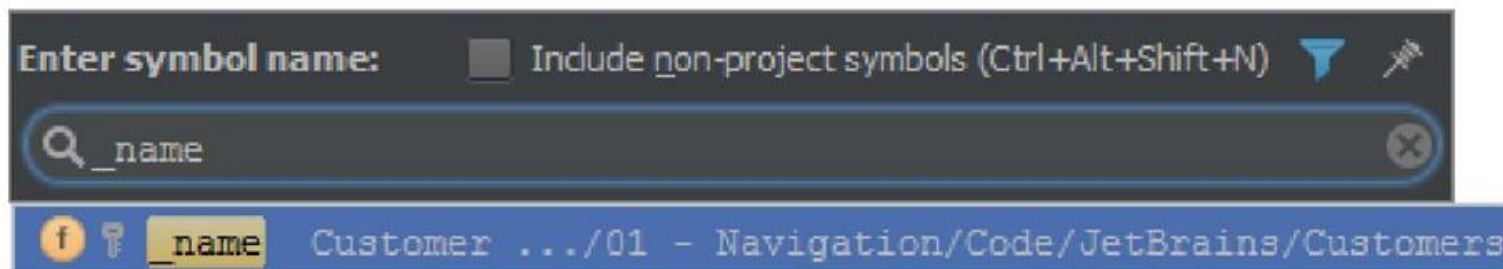
  Ctrl+Shift+N



 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

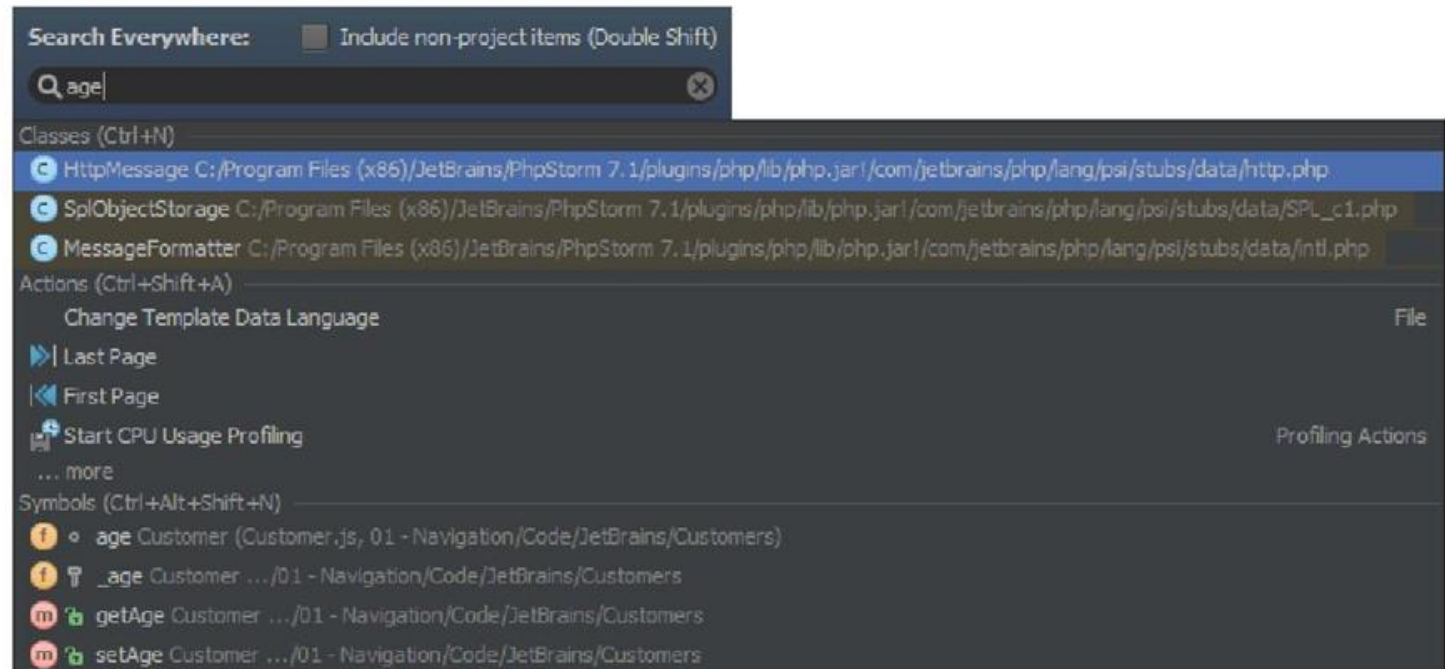


  Ctrl+Shift+Alt+N

 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;
    }
}
```



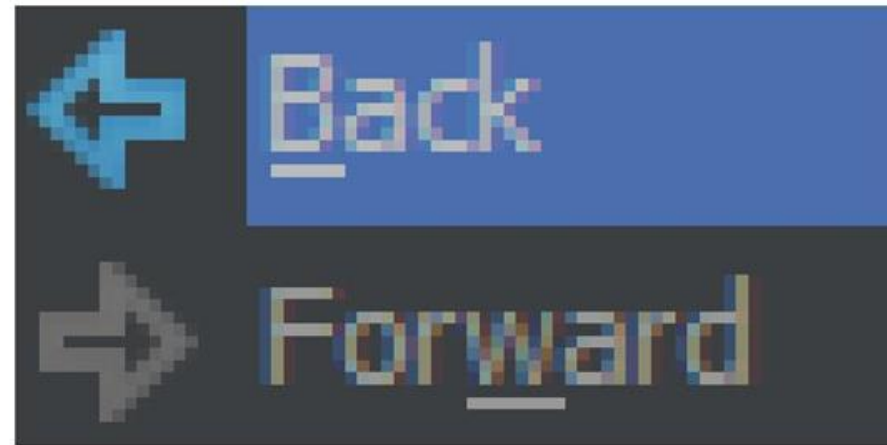
Ctrl+Click or Ctrl+B



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



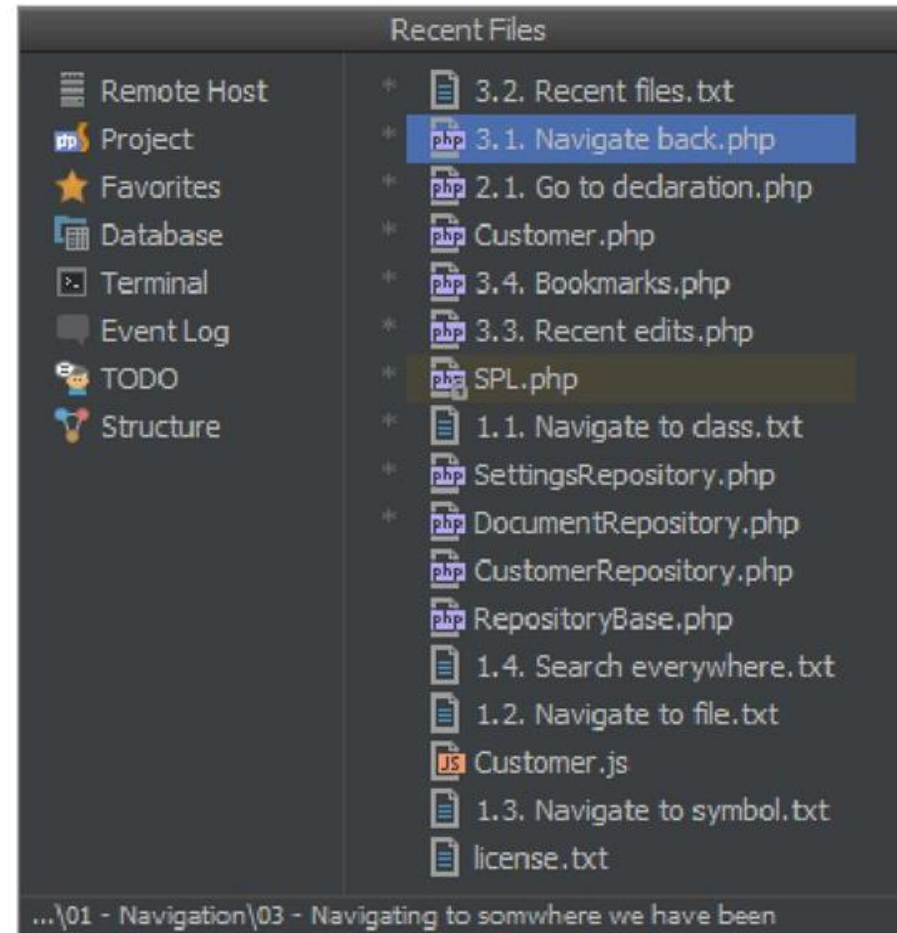
Control+Down / Control+Up

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




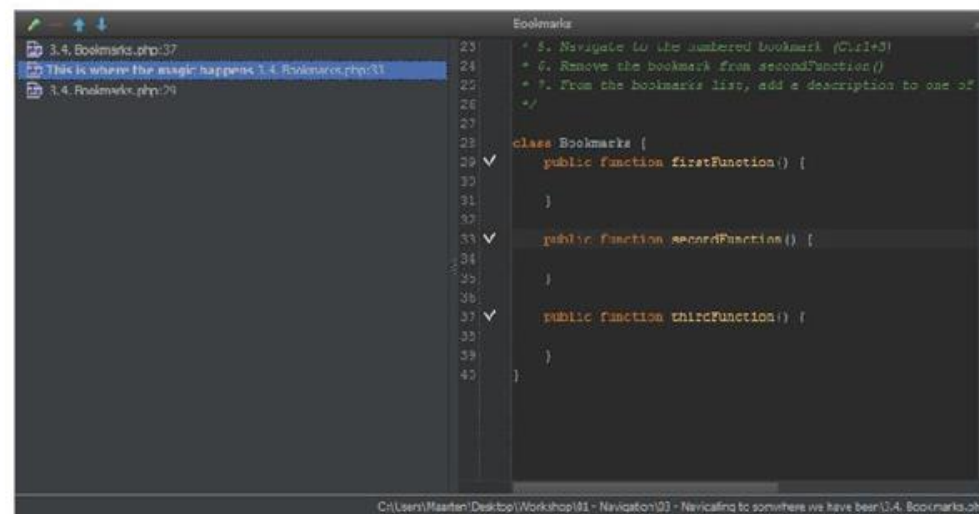
Shift+Command+Delete

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.

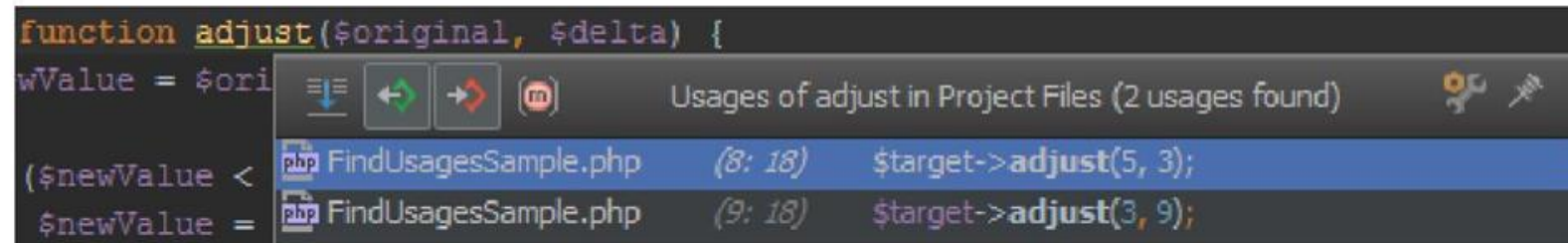
  Ctrl+Shift+F7



 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)

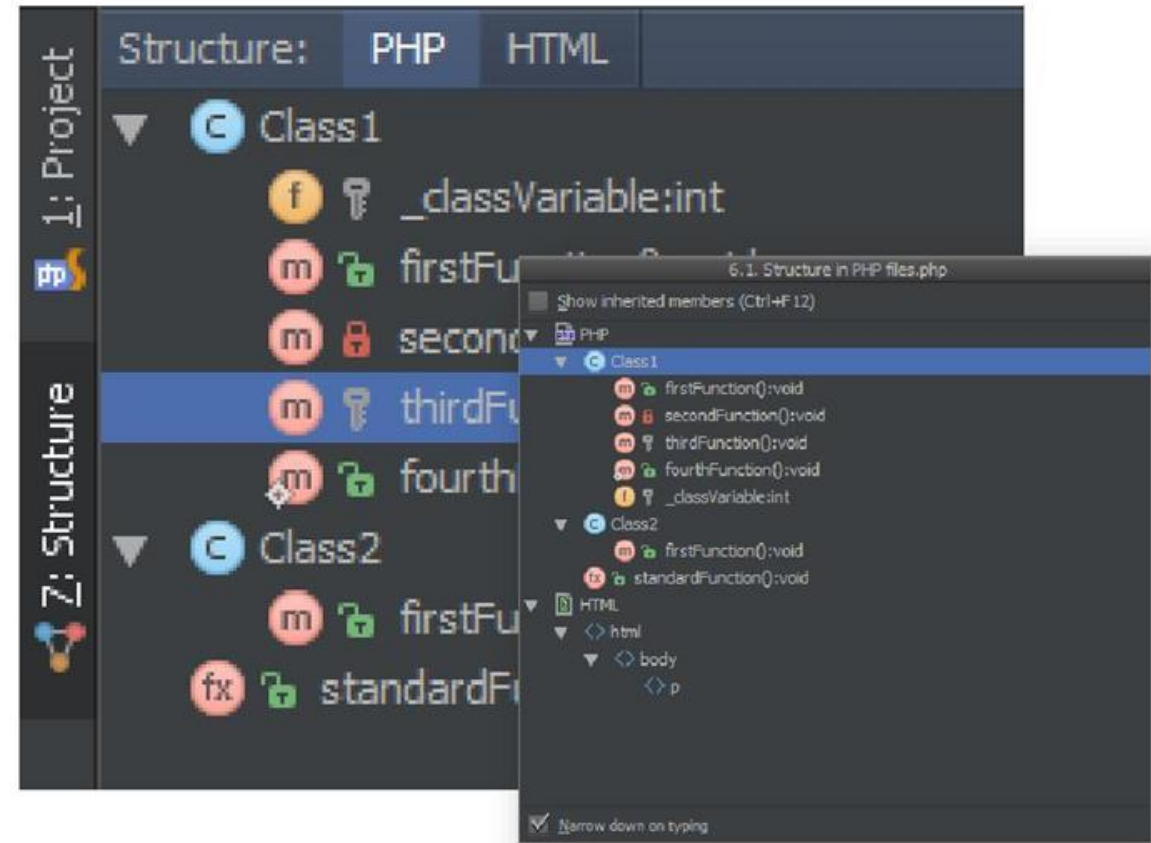
File Structure Tool Window

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)

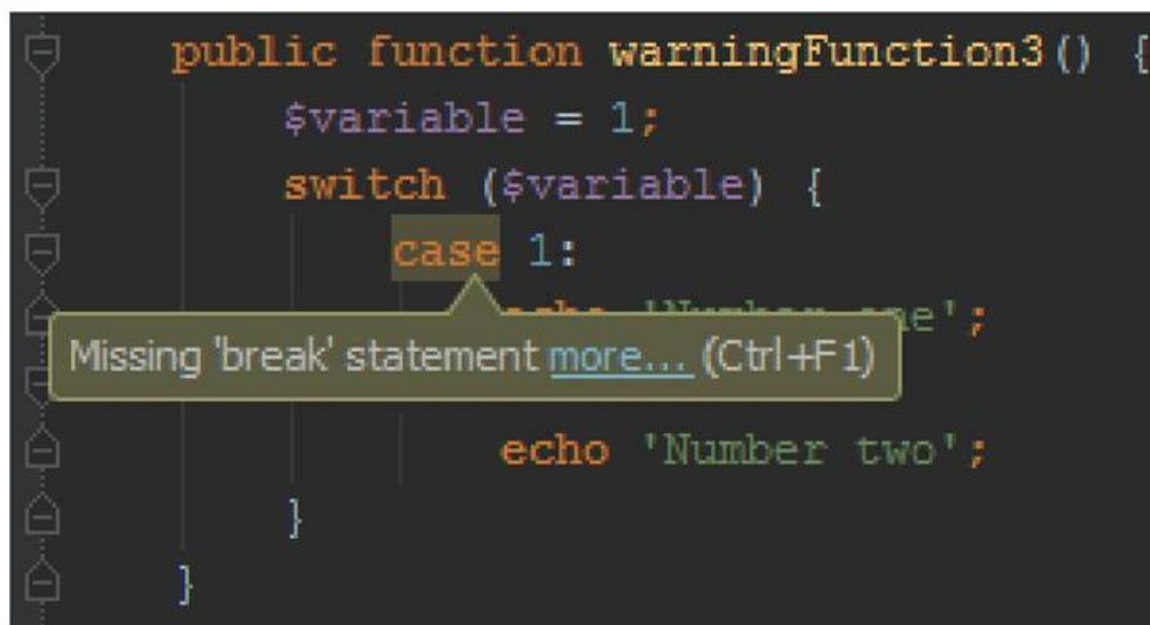
Highlights

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.



Navigation

Navigate back and forth between code issues.

Next Highlighted Error

Previous Highlighted Error



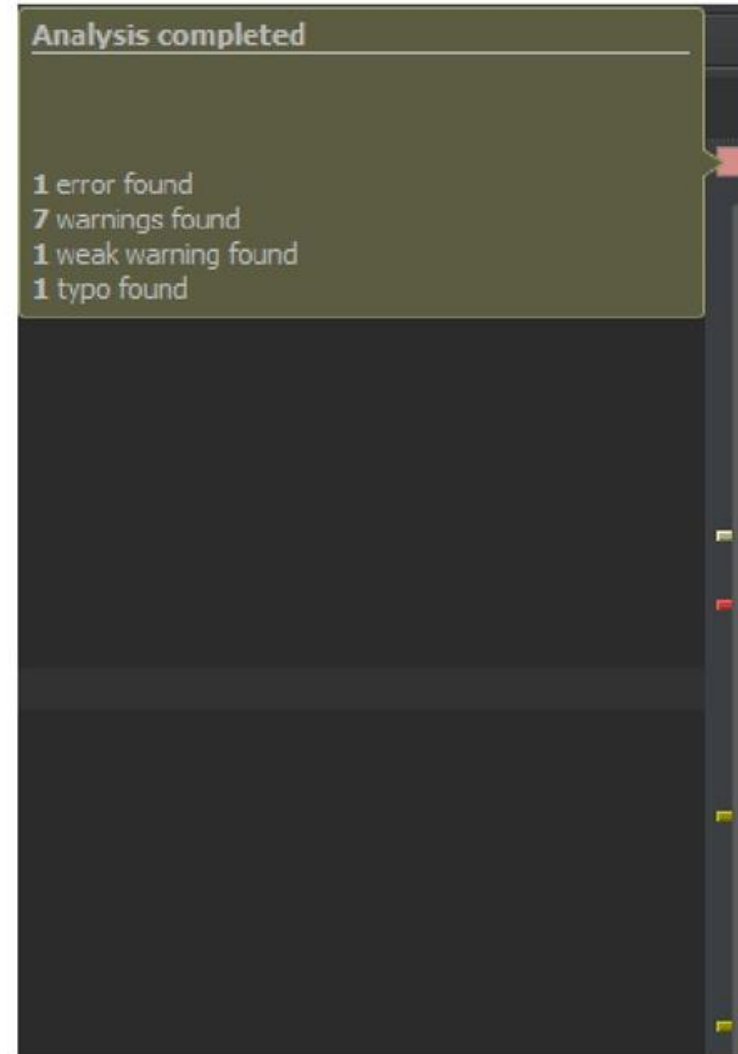
F2 / Shift+F2



F2 / Shift+F2

Gutter and Lens

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



Highlighting TODO

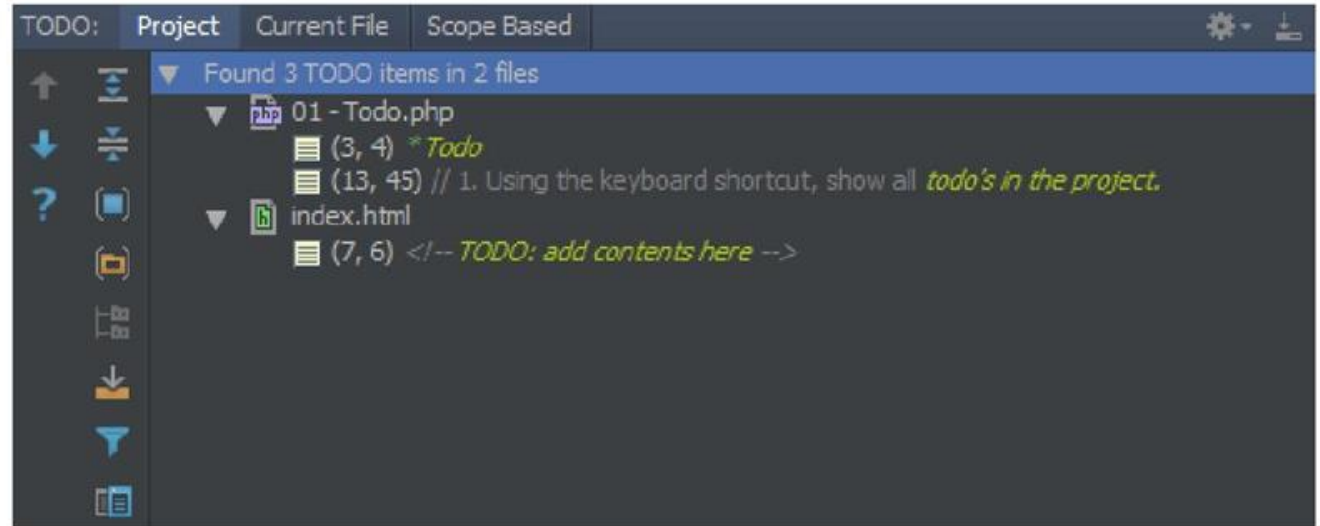
Listing tasks commented in code.

Work in every file type.

Default patterns:

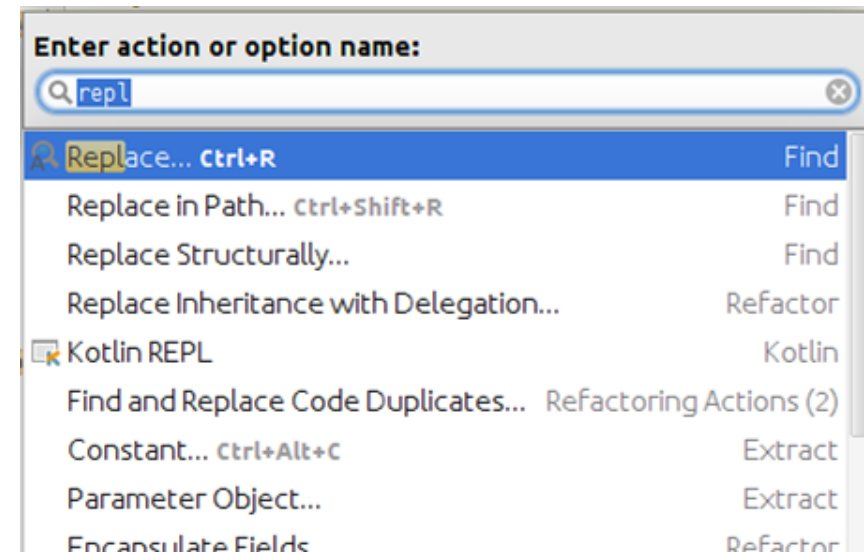
`// todo`

`// fixme`



WebStorm – pomoc

- Ctrl+Shift+A – find action



WebStorm – edycja

- Ctrl+Y – delete line
- Ctrl+D – duplicate line

WebStorm – nawigacja

- Ctrl+Tab – switch between the tool windows and opened files
- Ctrl+NumPad Plus/Minus – expand or collapse a code block

WebStorm – komentarze

- Ctrl+Slash – comment or uncomment a line with the line comment
- Ctrl+Shift+Slash – comment or uncomment a fragment of code

with the block comment

WebStorm – live templates

- itar – iterate elements of array

WebStorm – live templates

- itin – iterate elements

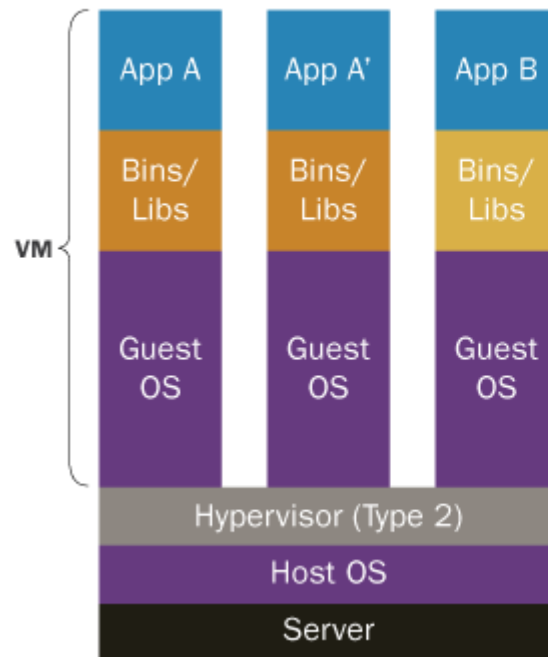
WebStorm – live templates

- custom...

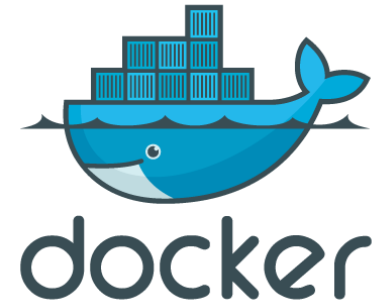
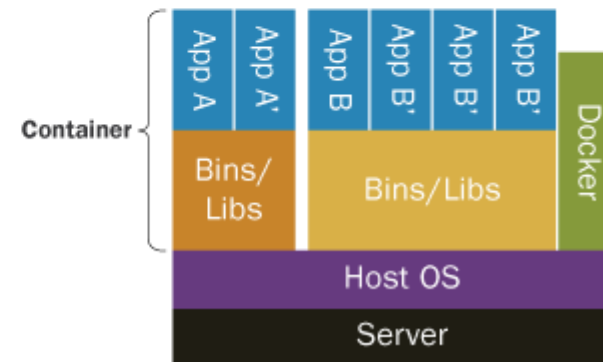
Docker

- 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`
- przełoguj
- `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

