Java development tools

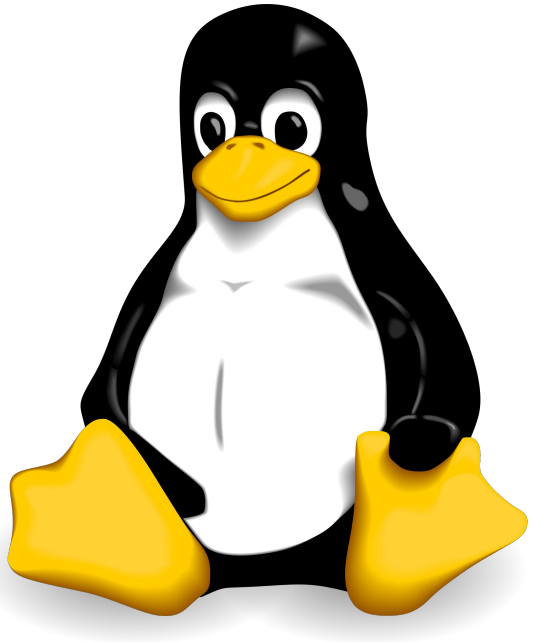
Wòjcech Makùrôt

Ubuntu

podstawy użytkowe

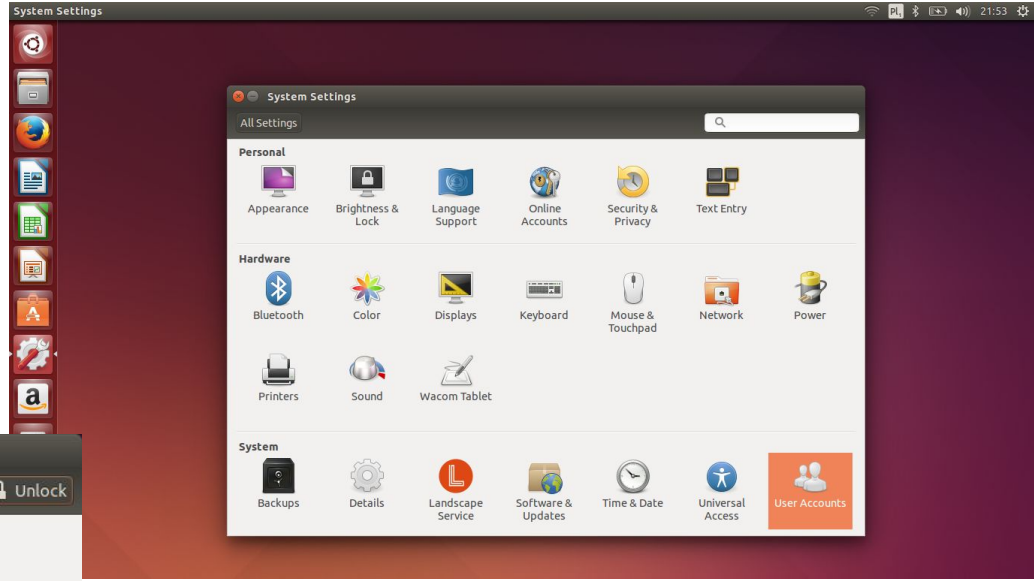
Ubuntu

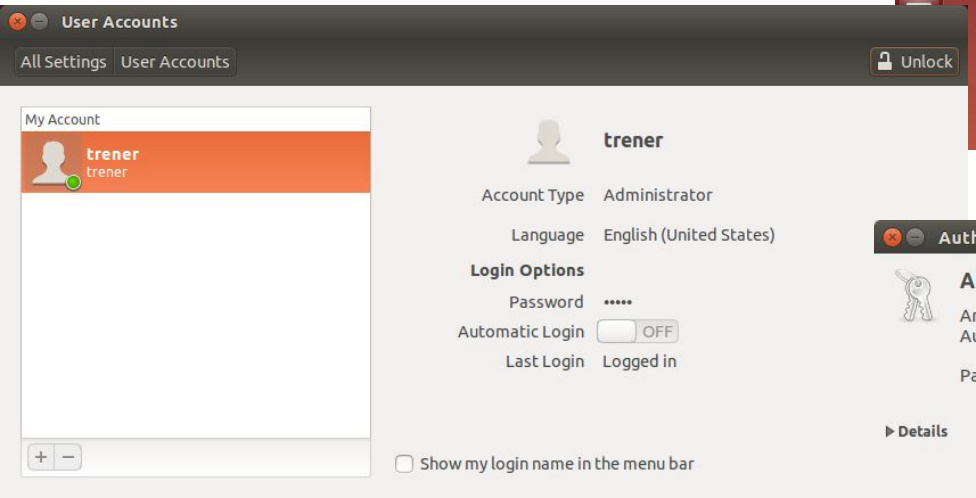
- kursant / iSAforever

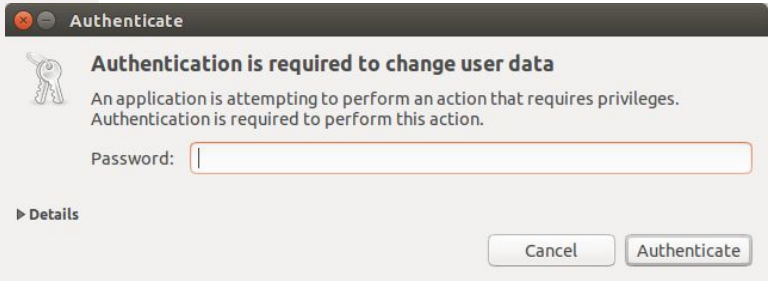


Ubuntu

- dodaj konto osobiste

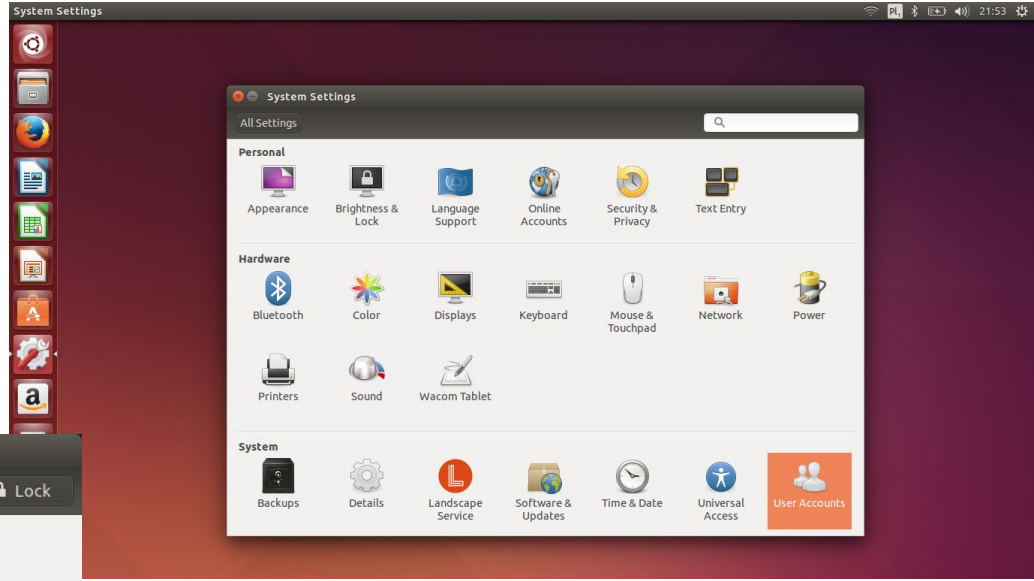


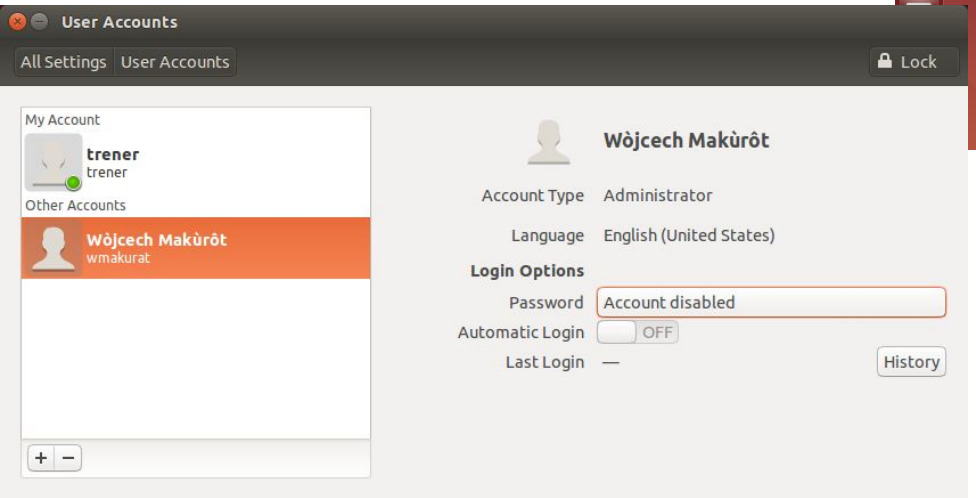




Ubuntu

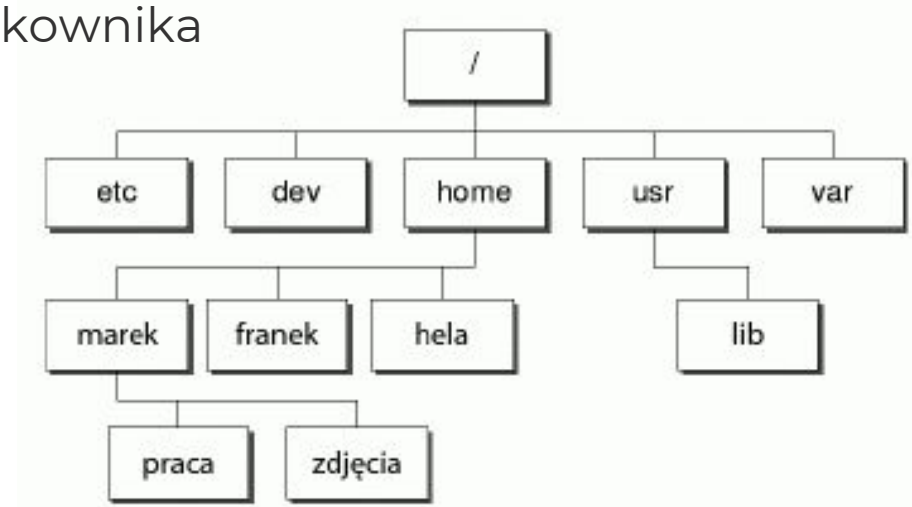
- dodaj konto osobiste
- przeloguj się





Ubuntu

- terminal
- drzewo katalogów - /
- Home = ~ = /home/nazwa_użytkownika
- root



Ubuntu - podstawowe polecenia

- pwd
- ls
- cd
- cp
- mv
- rm
- rmdir
- mkdir

- man
- touch
- cat
- nano
- whoami
- clear
- apt-get

- Tab - autouzupełnianie

Ubuntu - ćwiczenie

- apt-get update
- **sudo** apt-get update

git config

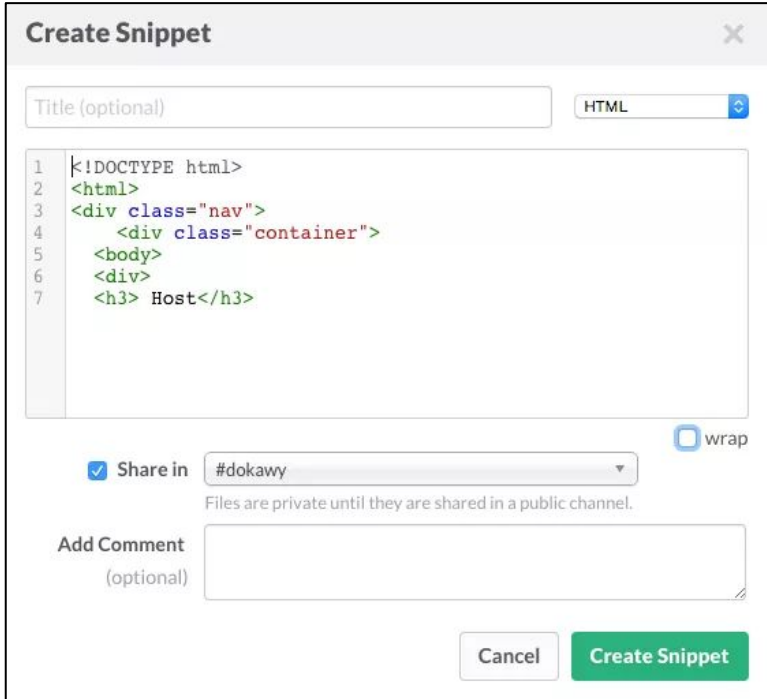
- git config --global user.email your.name@domain.com
- git config --global user.name "Your Name"
- git config --global -l

Slack

komunikator

Slack

- @ wołanie grupy/osoby
- @here - zawołanie każdego z kanału
- aplikacja mobilna
- snippet – wklejanie kodu
  z zachowaniem struktury



Java

Runtime Environment vs Development Kit

JRE vs JDK

- java -version
- javac -version
- update-alternatives --config java
- JAVA_HOME
- apt-get install default-jdk

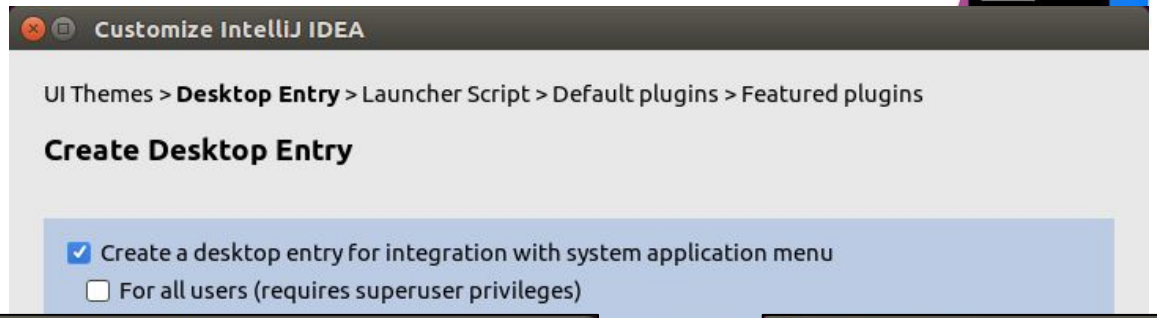
IntelliJ IDEA

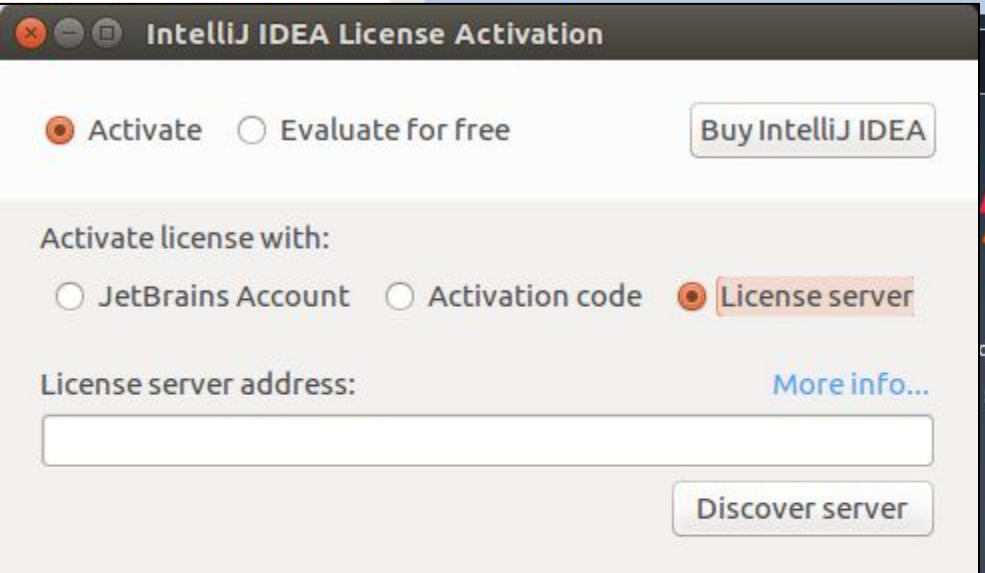
IDE

IntelliJ IDEA

- IDE - Integrated Development Environment
  - IDE vs workspace
- licencja edukacyjna
  - indywidualnie na slacku
- uruchomienie
  - sudo cp -r /home/kursant/Downloads/ ~
  - ~/idea-IU-123.1234.5/bin/idea.sh

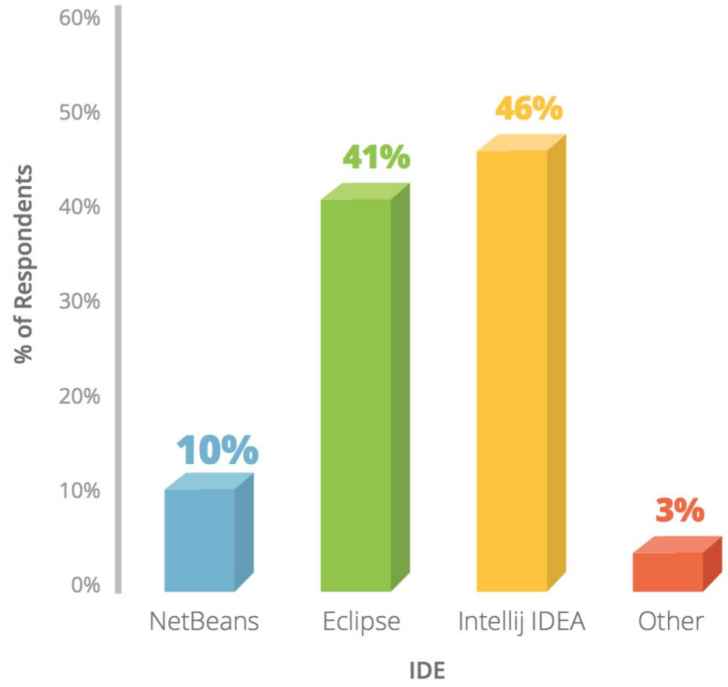
IntelliJ IDEA





IntelliJ IDEA - dlaczego

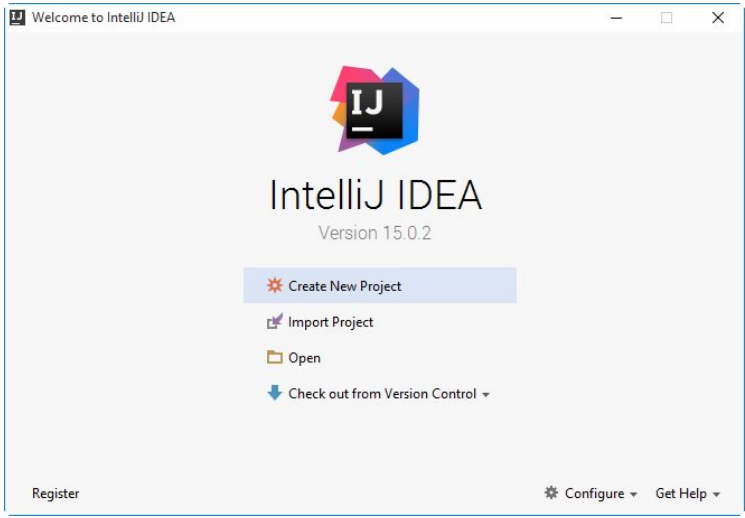
Figure 1.11 Battle of the IDEs

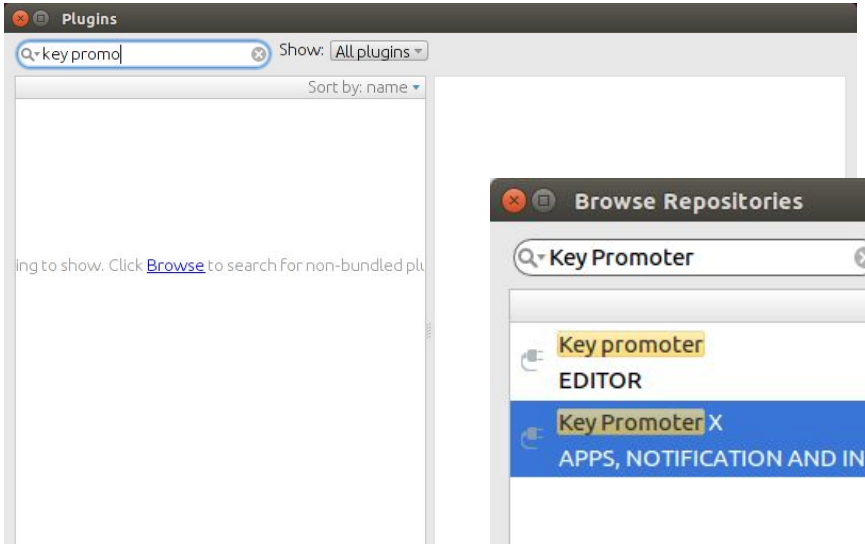


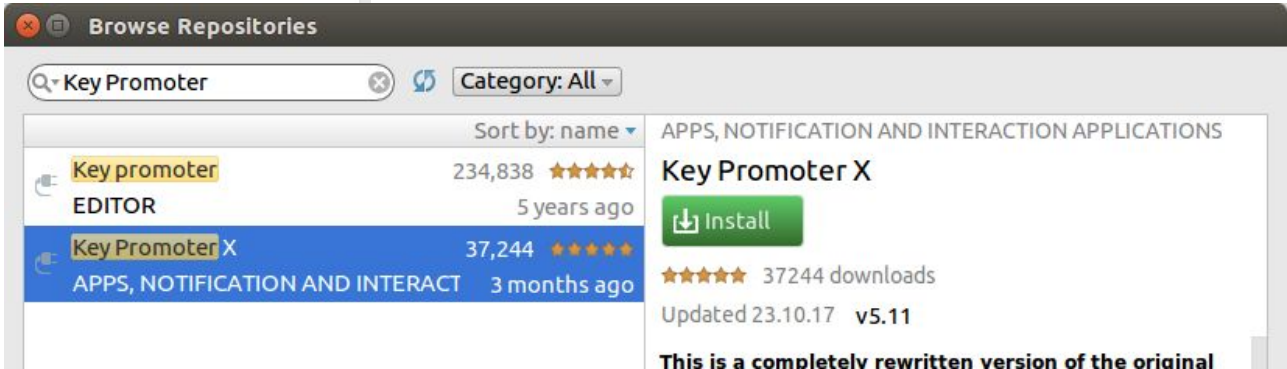
REBEL LABS by ZERO TURNAROUND

IntelliJ IDEA

- pluginy - po co i dlaczego
  - Key Promoter X







IntelliJ IDEA

- skróty klawiszowe - konflikty z Ubuntu
  - **Settings -> Keyboard -> Shortcuts**
    - Disable the Shade window action: **Ctrl + Alt + S**
    - Change or disable the Lock Screen action: **Ctrl + Alt + L**
    - Change or disable the Launch terminal action: **Ctrl + Alt + T**
    - Disable the Move window action: **Alt + F7**
    - Change or disable the Resize window action: **Alt + F8**

Źródło: https://askubuntu.com/questions/412046/unable-to-use-intellij-idea-keyboard-shortcuts-on-ubuntu

IntelliJ IDEA - pobranie projektu z git

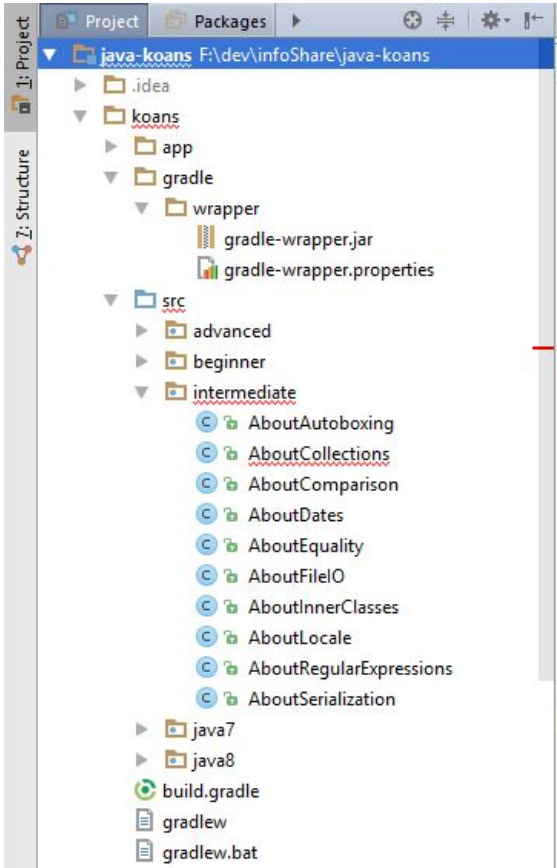
- checkout from Version Control
- GitHub
- https://github.com/JetBrains/intellij-samples.git

IntelliJ IDEA - przegląd możliwości

- okienka i ustawienia (systemowe oraz projektu)
- nawigacja do elementów projektu
- edycja kodu, a w szczególności:
  - autouzupełnianie
  - zaznaczanie
  - generowanie
  - formatowanie
  - zmiany nazw
  - komentarze
  - inspekcja kodu i błędy w aplikacji

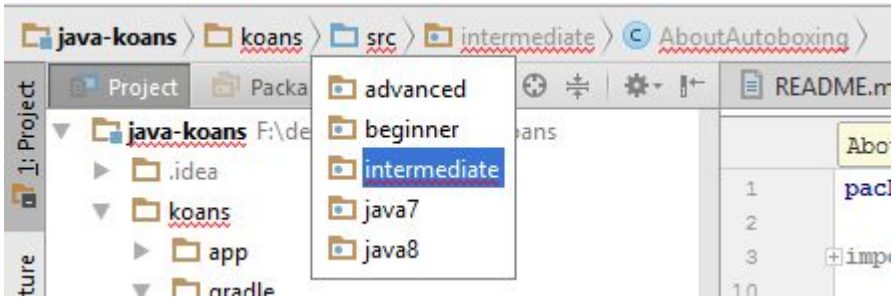
IntelliJ IDEA - Project

- wszystkie pliki w projekcie
- Alt + 1



IntelliJ IDEA - Navigation bar

- nawigacja w projekcie
- alt + home
- lewo/prawo – zmiana poziomu ścieżki
- góra/dół – przejście do innego elementu

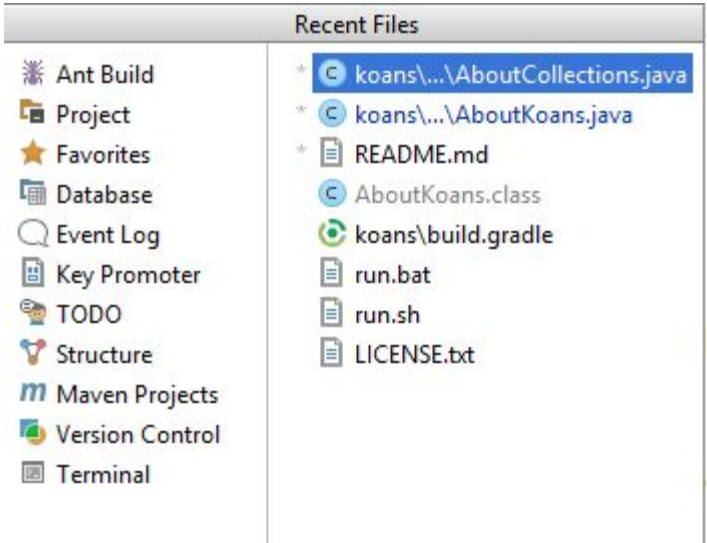


IntelliJ IDEA - Navigate to...

- ... class → Ctrl + n
  - camel case search
- ... file → Ctrl + Shift + n
- ... declaration → Ctrl + LewyPrzyciskMyszy
- search everywhere → 2 x Shift
- back/forward → Ctrl + Alt + left/right

IntelliJ IDEA - Recent files

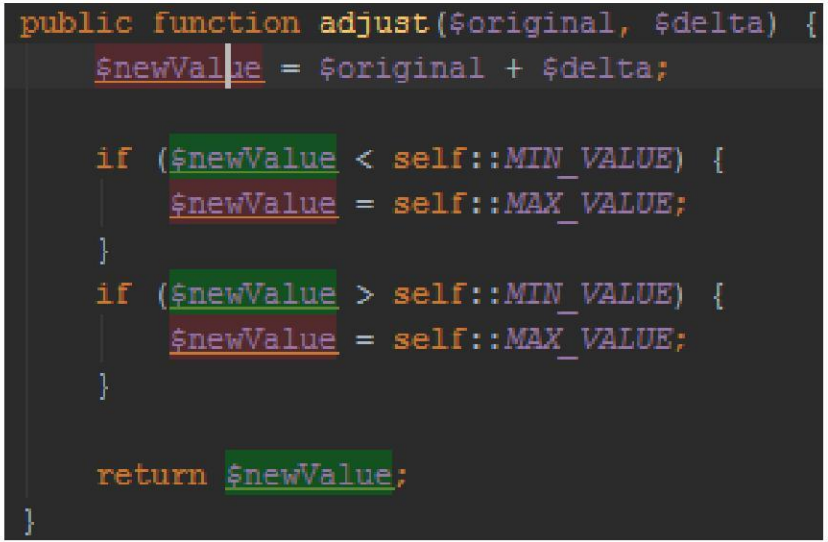
- lista ostatnio używanych plików
- Ctrl + e



IntelliJ IDEA - podświetlenia

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

Esc to clear highlighting.



Ctrl+Shift+F7

Shift+Command+F7

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IntelliJ IDEA - 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)

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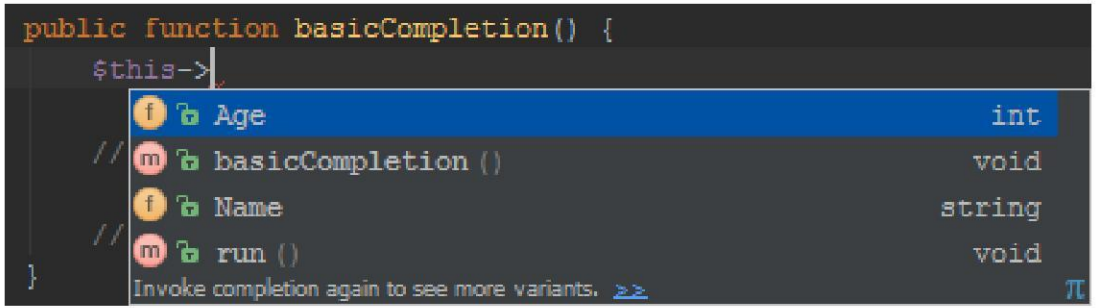
IntelliJ IDEA - Basic completition

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

- Hit Ctrl+Space twice for more variants
- Also allows path completion



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

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

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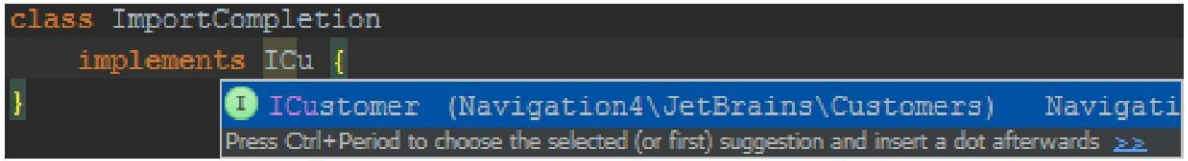
IntelliJ IDEA - Import completition

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)

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IntelliJ IDEA - 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

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IntelliJ IDEA - Selecting code

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Alt+Up / Down

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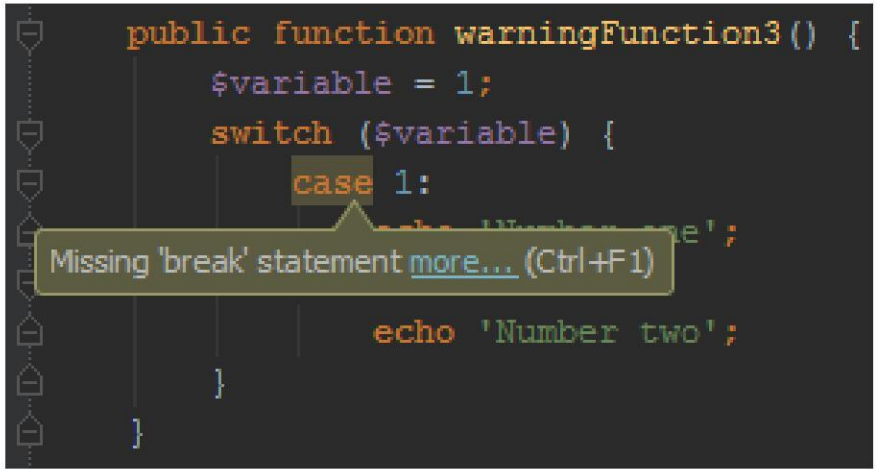
IntelliJ IDEA - Highlights

In-editor highlighting of code issues.

- Errors
- Warnings
- Suggestions
- Hints
- Dead Code

Can be suppressed.

Support for PHP Code Sniffer / PHP Mess Detector.



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IntelliJ IDEA - Quick fixes

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

Alt+Enter

Alt+Enter

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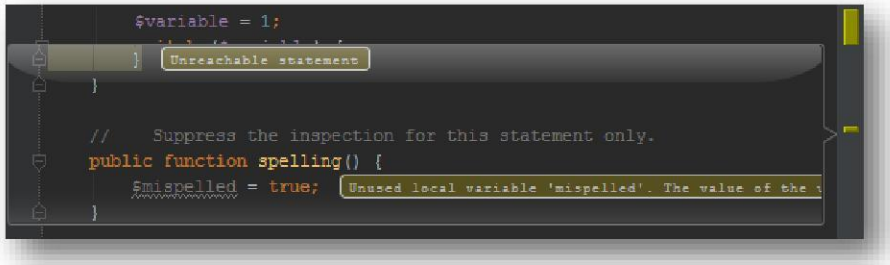
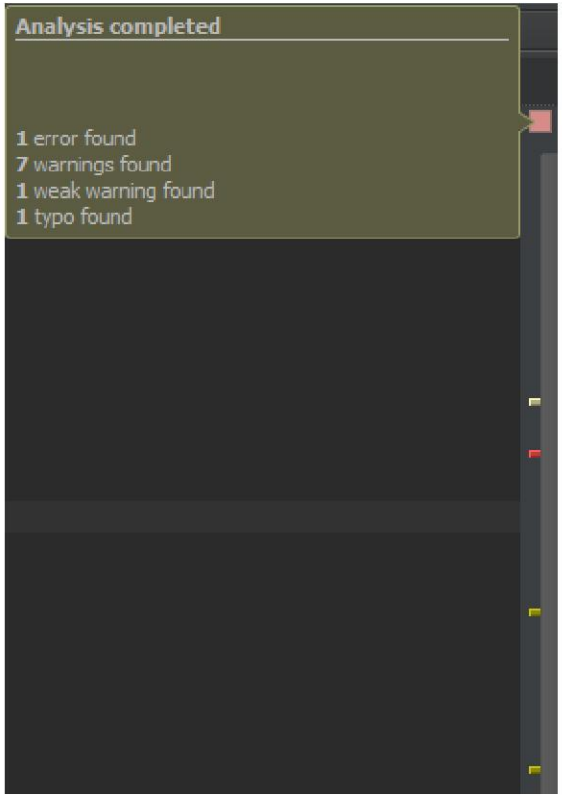
IntelliJ IDEA - Gutter and lens

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





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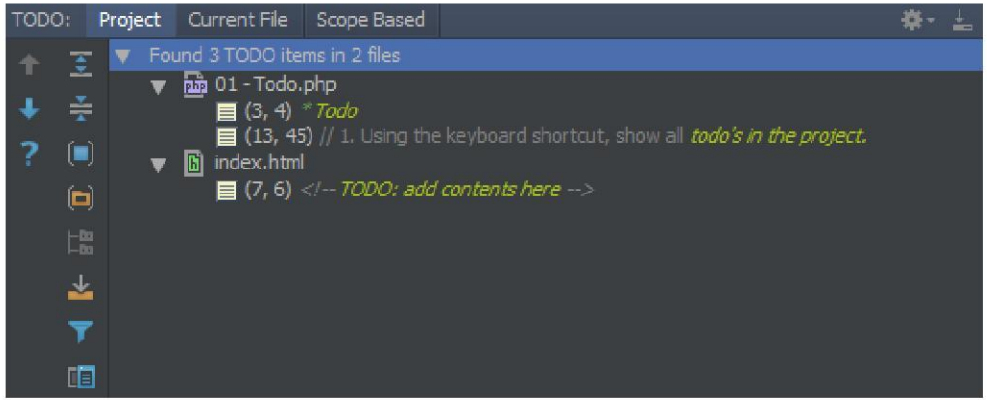
IntelliJ IDEA - ToDo

Listing tasks commented in code.

- Work in every file type.
- Default patterns:
  - *// todo*
  - *// fixme*



Alt+6

Command+6

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IntelliJ IDEA - Code editing

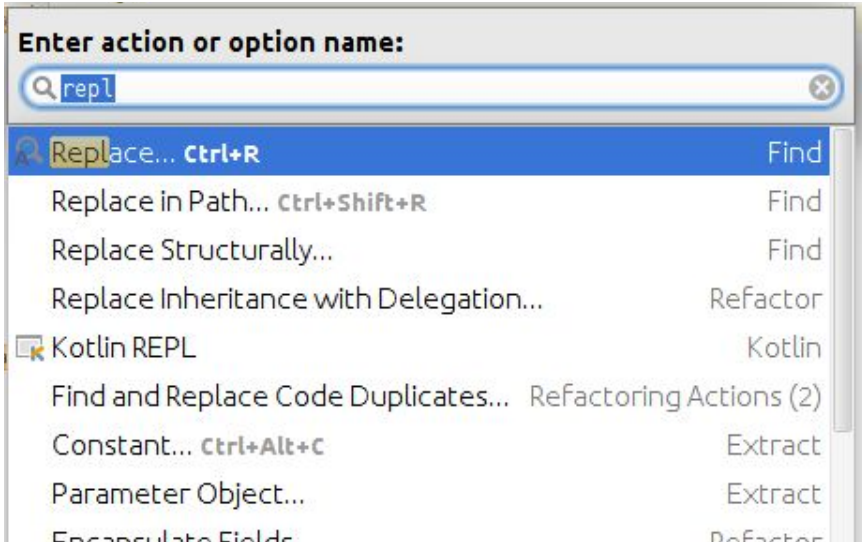
- Ctrl + Alt + L – code (block) formatting
- Ctrl + Tab – tools and last opened files
- comments
  - Ctrl + /
  - Ctrl + Shift + /
- Ctrl+Alt+O – optimize imports

IntelliJ IDEA - Code generation

- Alt+Insert – Create new...

IntelliJ IDEA - Find action

- Ctrl+Shift+A



IntelliJ IDEA - Code templates

- file header
- exception implementation
- class
- test

IntelliJ IDEA - Live templates

- psf – public static final
- psfs – public static final String
- thr – throw new

IntelliJ IDEA - Live templates

- fori – iteration loop
- itar – iterate elements of array
- itco – iterate elements of Collection
- iten – iterate Enumeration
- ittok – iterate tokens from String

IntelliJ IDEA - Live templates

- and much more...
- ... even custom

Dzieki

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