

IDEs & Editors



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IDE vs Editor

IDE:

- IDE can debug
- IDE Setup (**knows context**)
- IDE is slow and big

Editor:

- Editor is very fast!
- No need to set up
- Editor is not made to debug



Why IntelliJ is better than Eclipse

IntelliJ has that eclipse does not:

- Fast and smart contextual assistance
- Live Expression Debugger
- Amazing tool integration (Git, Maven, Gradle)
- Intuitive and Slick UI





izou pom.xml

Project

izou [izou] ~/Projects/intellimate/izou

src

main

java

org.intellimate.izou

activator

addon

config

events

identification

main

output

resource

security

support

system

threadpool

util

resources

target

archive-tmp

classes

generated-sources

javadoc-bundle-options

maven-archiver

maven-status

izou-1.15.1.jar

izou-1.15.1-jar-with-dependencies.jar

izou-1.15.1-javadoc.jar

izou-1.15.1-sources.jar

gitignore

rultor.yml

izou.iml

LICENSE.txt

pom.xml

pubring.gpg.asc

README.md

secring.gpg.asc

settings.xml.asc

External Libraries

project licenses license name

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org
  <modelVersion>4.0.0</modelVersion>

  <groupId>org.intellimate.izou</groupId>
  <artifactId>izou</artifactId>
  <version>1.15.1</version>
  <packaging>jar</packaging>
  <name>Izou</name>
  <description>Izou is a framework used for an addon-based personal assistant</descri
  <url>https://github.com/intellimate/Izou</url>

  <scm>
    <connection>scm:git:git@github.com:intellimate/Izou.git</connection>
    <developerConnection>scm:git:git@github.com:intellimate/Izou.git</developerCon
    <url>http://intellimate.github.io/Izou</url>
  </scm>

  <properties>
    <log4j.version>2.1</log4j.version>
  </properties>

  <licenses>
    <license>
      <name>The Apache License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    </license>
  </licenses>

  <distributionManagement>
    <snapshotRepository>
      <id>ossrh</id>
      <url>https://oss.sonatype.org/content/repositories/snapshots</url>
    </snapshotRepository>
  </distributionManagement>

  <developers>
    <developer>
      <id>LeanderK</id>
      <name>Leander Kurscheidt</name>
      <email>Leander.Kurscheidt@gmx.de</email>
    </developer>
    <developer>
      <id>JulianB</id>
      <name>Julian Brendl</name>
      <email>julianbrendl@gmail.com</email>
    </developer>
  </developers>

  <dependencies>
    <dependency>
      <groupId>org.apache.logging.log4j</groupId>
      <artifactId>log4j-api</artifactId>
      <version>${log4j.version}</version>
    </dependency>
    <dependency>
      <groupId>org.apache.logging.log4j</groupId>
      <artifactId>log4j-core</artifactId>
      <version>${log4j.version}</version>
    </dependency>
  </dependencies>
</project>
```

Maven Projects

izou

Lifecycle

clean

validate

compile

test

package

verify

install

site

deploy

Plugins

Dependencies

27:22 LF: UTF-8 Git: master

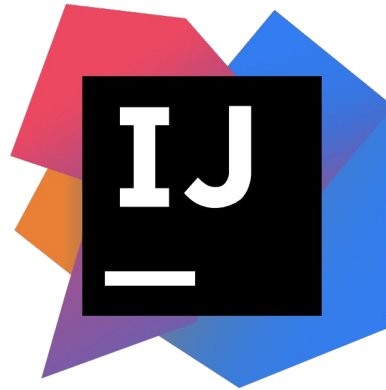


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Let's play: IntelliJ



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Let's play: IntelliJ

- IDE Setup (Project vs Module, Language)
- Editor-interactions (warnings, errors, navigation)
- VCS (Merge!)
- Code-generation
- Debugging (inline-stuff)
- History



Useful Editors

- Sublime
- Atom
- VS Code



Terminal Editors

- Nano
- Vim



Nano

Exit: Ctrl x

Let's play:

```

:::
iLEP8Dj:      ;jD88888Dj:
.LG1tEP8ED.f8GjjjL888EE:      .d8888b. 888b 888 888 888
iE :8888Et.   .G8888.
;1  E888.      .8888:
      D888:      888 888 888888b 888 888 888
      D888:      888 888 Y88b 888 888 888
      D888:      888 888888 888 Y888888 888 888
      D888:      888 888 888 Y888888 888 888
      D888:      888 888 888 Y888888 888 888
      D888:      Y88b d88P 888 Y8888 Y88b. .d88P
      888W:      "Y8888P88 888 Y888 "Y88888P"
      W88W:      .8888:
      W88W:      88888b. 8888b. 88888b. .d88b.
      DGGD:      888 "88b "88b 888 "88b d88""88b
      888 888 .d88888888 888 888 888
      :W88:      888 888 888 888 888 888 Y88. d8P
      :8888:      888 888 "Y8888888 888 888 "Y88P"
      E8881
      tW88D

```



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Vim

The most asked question on Stack Overflow:

How to exit Vim.

Exit (on save): (esc) :x or Shift z z

Exit (without save): (esc) :q!



Let's play:



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Linters - what do they do?

- Show formatting discrepancies
- Show non-adherence to code standards and conventions
- Pinpoint to possible logical errors in your code



Linters

Just as important as a book.

```
1  'use strict';  
2  ● var foo = "bar";
```

Error foo is defined but never used (no-unused-vars) at line 2 col 5

```
4  ● fn(function (err) {});
```

Error foo is defined but never used (no-unused-vars) at line 2 col 5

Error Strings must use singlequote. (quotes) at line 2 col 11

Error "fn" is not defined. (no-undef) at line 4 col 1

Warning Expected error to be handled. (handle-callback-err) at line 4 col 4

Error err is defined but never used (no-unused-vars) at line 4 col 14



What IDE for what Language?

Java: IntelliJ

Javascript: WebStorm

Python: PyStorm

Ruby: RubyMine

C/C++: Visual Studio, CLion

C#: Visual Studio, Rider (cross platform), MonoDevelop (for Unix)

Haskell: VS Code, Emacs

