# Java IDE - IntelliJ

## Why use an IDE?

We don't need to use an IDE to write Java applications.
We can write them in any text editor and compile them
manually using **javac**:

```
class
Foo {
…
}
```

Source code

```
C:\temp>javac Hello.java
```

```
Hello.class
```

byte code

```
C:\temp>java hello
Hello, World
```

It reality its almost impossible to do anything serious
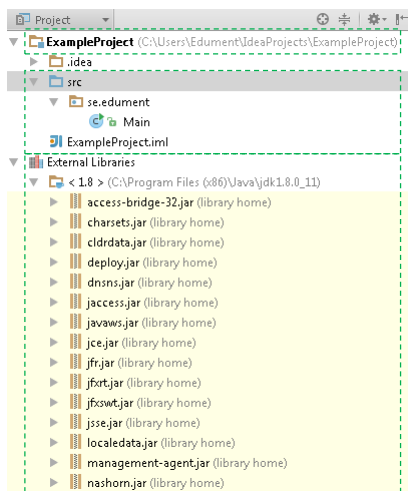without an IDE.

## Some Java IDEs

There are many different IDEs that can be used for
Java development.

- **IntelliJ IDEA** by JetBrains.
    - Free community edition available.
    - Ultimate edition with advanced features also available.
    - Google's Android Studio based on this.
    - We will be using IntelliJ in this course

- **Eclipse** by the Eclipse Foundation.
    - Free, open source community developed IDE.
    - The most popular IDE for Java programming.

- **NetBeans** by Oracle.
    - Oracle own Java.
    - Free, open sourced IDE.
    - Often used for desktop software as it has a great GUI design tool.

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## IntelliJ IDEA – Project window

**Project**

**Projects** are containers that contain all of
the code and other elements that make
up an application.

**Files and Folders**
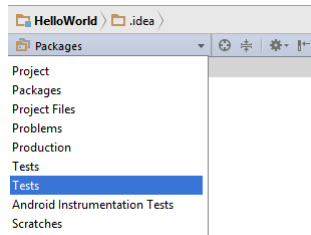
Every project contains your source code
and other files

**Libraries**

Libraries are collections of code others have
written that you can use in your project. These
listed here are those that come with the JDK.

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## Project window - Views

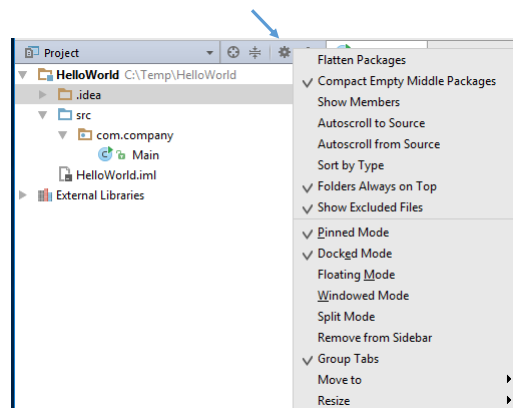The project window contains many different views



- **Project**
  Shows all project items
- **Packages**
  Shows the package structure
- **Scratches**
  With this feature you can sketch something really quick right in the editor, without modifying your project or creating any files
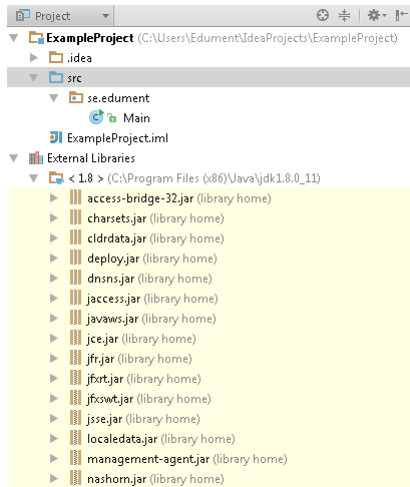
## Project window - Configuration

The project window The project window have many configuration options:

Some rules and facts:

- You can only work on one project at a time per IntelliJ instance.

- You can, however, have as many IntelliJ windows open as you want, each managing separate projects.

If we create a simple hello world application, then the following files are created:



- **\.idea**
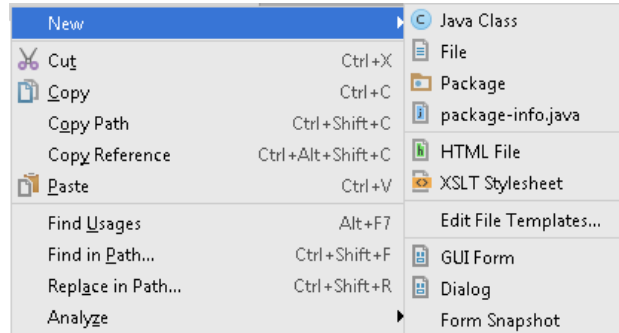  Contains all the project specific settings (Not all files here should be in source control)
- **\Out**
  Contains compiled class files
- **\Src**
  Your source code.
- **HelloWorld.iml**
  A IML file is a file created by IntelliJ IDEA and it stores information about a module.
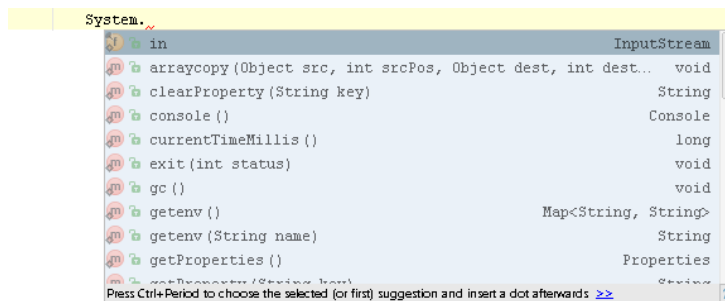
# IntelliJ IDEA: File templates

Automatically create Java specific files, which often
include the template code the files always need.



# IntelliJ IDEA: IntelliSense

**Auto-completion** and hints on types, methods and
parameters when writing code.

## IntelliJ IDEA: Help

If you ever get confused when using IntelliJ IDEA, just push the **F1 key** on your keyboard and the IntelliJ web help will open.

Additional resources:

- IntelliJ documentation and tutorials
  https://www.jetbrains.com/idea/documentation/

- Jetbrains.tv – online video tutorials
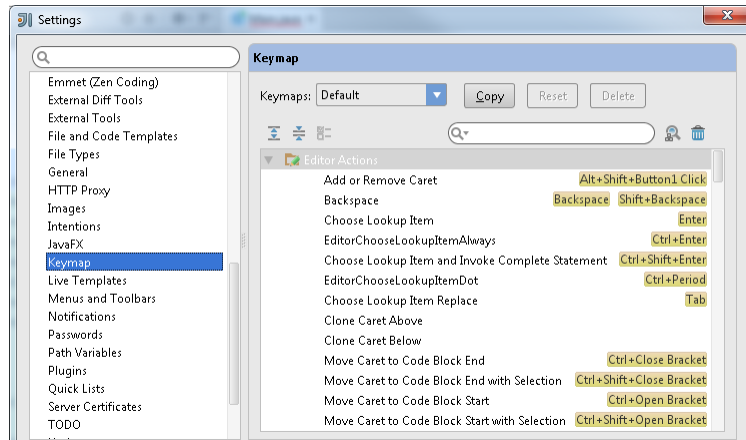  https://www.jetbrains.tv

## Become a better developer

Learn to type without looking!

# Become a better developer

## Learn your IDE's shortcuts!



# Exercise 2

Let's do exercise 2