

Download & Install

Please google if you don't know how to download and install below tools.

Download & Install

JDK

Java IDE

Maven

Tomcat(web server/container - Optional)

Database

MySQL*(Relational DB)

NoSQL

Note: It is better to put maven and tomcat to the same folder, for example: ~/Documents/software

- Apple Mac with **M chip** please pick **ARM version**(otherwise use **x86**)

JDK

Prefer 1.8 : <https://www.oracle.com/java/technologies/downloads/#java8>

Note: please only download **JDK 8**(version). Other versions might result in bugs in future projects and all the big companies are currently using Java 8. Also make sure you are **downloading JDK not JRE**.

Java IDE

IntelliJ: <https://www.jetbrains.com/idea/download/>

Note:

- Download **IntelliJ Ultimate** (not the community version) and its **NOT** free. You can use your **edu address** **or your friends edu address** to get a 1 year of free trial.
 - Optional IDE -- **VScode** (NOT **Eclipse**)
- If you don't have edu email, you can buy the account in Taobao.

Run Sample Java:

1. Print **Hello World** from both IDE.
 1. Note: you need to add your JDK to your IDE's class path.
2. Reverse String
 1. "abcdef" -> "fedcba"

Maven

Tutorial: <https://www.baeldung.com/install-maven-on-windows-linux-mac>

Tomcat(web server/container - Optional)

<https://tomcat.apache.org/download-90.cgi>

Database

MySQL*(Relational DB)

<https://dev.mysql.com/downloads/>

Note: Download **MySQL Community Server** and **MySQLWorkBench**(SQL IDE) (version 8.x)

⬇ MySQL Community Downloads

- MySQL Yum Repository
- MySQL APT Repository
- MySQL SUSE Repository
- **MySQL Community Server**
- MySQL Cluster
- MySQL Router
- MySQL Shell
- MySQL Operator
- MySQL NDB Operator
- **MySQL Workbench**
- MySQL Installer for Windows
- C API (libmysqlclient)
- Connector/C++
- Connector/J
- Connector/NET
- Connector/Node.js
- Connector/ODBC
- Connector/Python
- MySQL Native Driver for PHP
- MySQL Benchmark Tool
- Time zone description tables
- Download Archives

- **MySQL Workbench** a graphic user interface. (or use **Data grip**)
- After downloading and installing those two, testing it works by:
 - create a table **User** with 3 columns: ID, Name, Phone number.
 - Add 2 entries to the table.
 - Query your table.

NoSQL

Please download and install the below databases. It is **optional** to learn how to do **CRUD(Crete, Read, Update, Delete)** with the two databases.

- **MonogoDB**
 - <https://www.mongodb.com/try/download/community>
- **Cassandra**
 - https://cassandra.apache.org/_/index.html