

SAN FRANCISCO STATE UNIVERSITY COMPUTER SCIENCE DEPARTMENT

GOOGLE GUAVA

CODE LIBRARIES FOR JAVA AND ANDROID

How to import Google Guava into Intellij

Duc Ta











Guava Multimap

- **Google Guava** is an open-source set of common libraries for Java, mainly developed by Google engineers. (https://en.wikipedia.org/wiki/Google_Guava)
- Basic utilities to reduce menial labors to implement common methods and behaviors.
- An extension to the Java collections framework (JCF) formerly called the Google Collections Library.
- 3. Other utilities which provide convenient and productive features such as functional programming, graphs, caching, range objects, and hashing.

Google Guava

Original author(s) Kevin Bourrillion and Jared Levy

(Google Collections Library) [1]

Developer(s) Google

Stable release 24.0 / January 31, 2018^[2]

Repository https://github.com/google/guava ๔

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Development status Active

Written in Java

Operating system Cross-platform

Type Utility and Collection Libraries

License Apache License 2.0

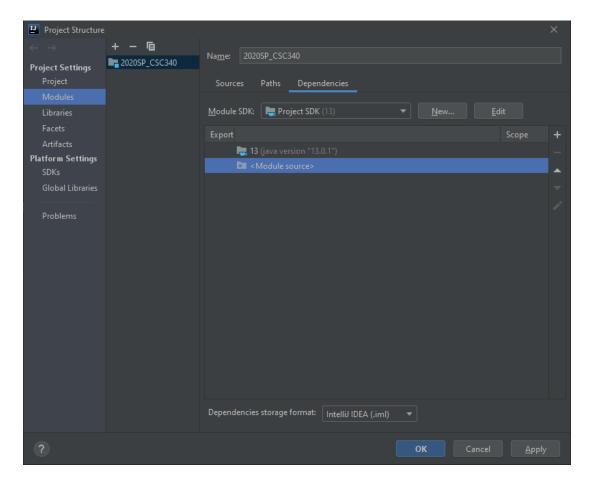
Website github.com/google/guava ₽

Guava Multimap

- Interface Multimap:
 - https://google.github.io/guava/releases/snapshot-jre/api/docs/com/google/common/collect/Multimap.html
- Repository:
 - https://github.com/google/guava
 - https://search.maven.org/#search|gav|1|g:%22com.google.guava%22%20AND%20a:%22guava%22
- Download:
 - Get file guava-##.#-jre.jar from the repository or from File Manager.

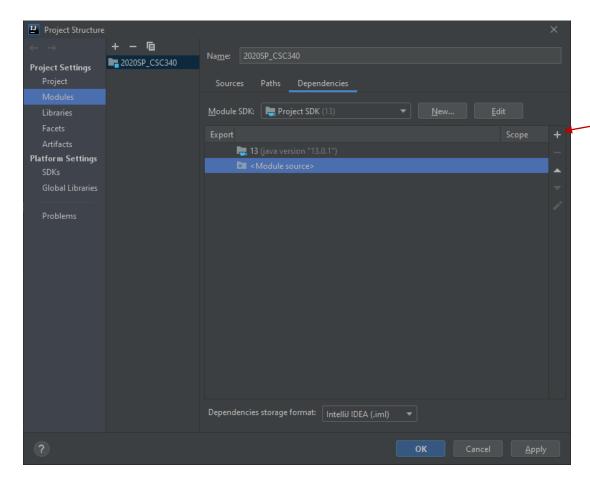


- In IntelliJ IDE, click to choose our project then:
 - Right click on the project and choose "Open Module Settings" or
 - F4



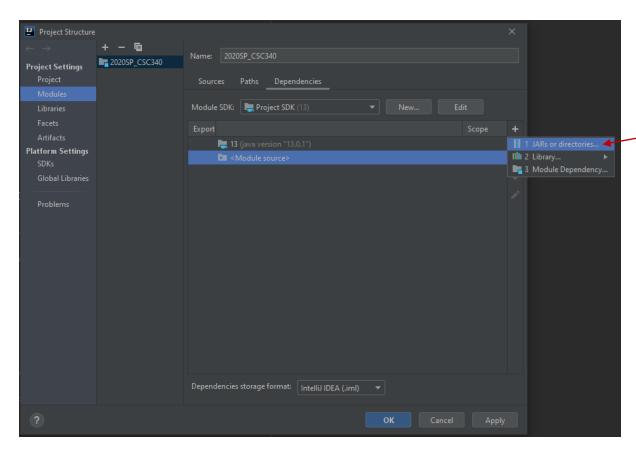


- We should be in the "Dependencies" tab. Click on the "+" sign then
- Choose "JARs or directories"



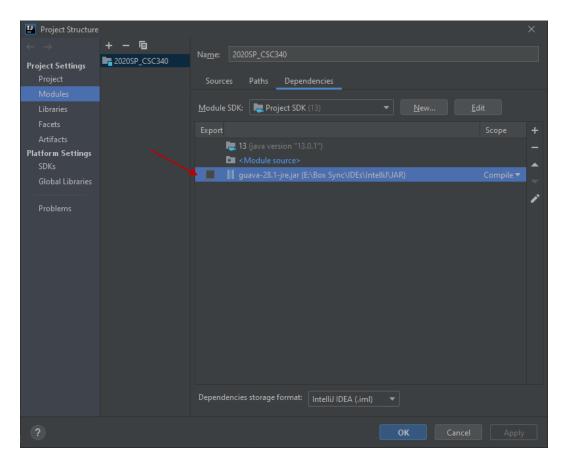


- We should be in the "Dependencies" tab. Click on the "+" sign then
- Choose "JARs or directories..."



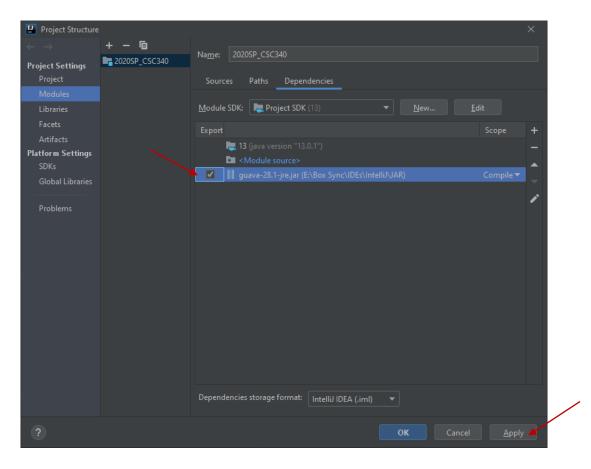


- Browse to the downloaded file guava-##.#-jre.jar and select it to add.





Check in the box to the left then "Apply"



- Download TinyBookGoogleGuava.java to test the imported Guava library.

```
package javaDictionaryCSC340;
jimport com.google.common.collect.ArrayListMultimap;
import com.google.common.collect.Multimap;
import java.util.Collection;
 * @author Duc Ta PLUS
public class TinyBookGoogleGuava {
    public static void main(String[] args) {
        Multimap<String, String> tinyBook = ArrayListMultimap.create();
```

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See you next class!