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**ChatGPT**

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**You said:**

Java Decompiler - share an example to decompile java classfile using CLI

**ChatGPT said:**

To decompile a Java .class file using the command line, you can use **JD-GUI** or **FernFlower**, but one of the simplest methods is using **CFR (Class File Reader) decompiler**.

**Steps to Decompile a**.class**File Using CFR:**

**1. Download CFR Decompiler**

You can download CFR from CFR's official site.

**2. Run CFR Using CLI**

Open the terminal or command prompt and execute the following command:

sh

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java -jar cfr-<version>.jar YourClassFile.class

Example:

sh

CopyEdit

java -jar cfr-0.152.jar HelloWorld.class

This will print the decompiled Java source code of HelloWorld.class in the terminal.

**3. Save the Decompiled Code to a File (Optional)**

If you want to save the decompiled output to a file:

sh

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java -jar cfr-0.152.jar HelloWorld.class > HelloWorld.java

**Alternative: Using FernFlower (from IntelliJ)**

If you have IntelliJ, you can use **FernFlower** via command line:

sh

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java -jar fernflower.jar -d out/ HelloWorld.class

Would you like more details on any of these methods?

**You said:**

Does fernflower.jar is part of IntelliJ IDE

**ChatGPT said:**

Yes, **FernFlower** is included with IntelliJ IDEA, but it's not provided as a standalone JAR by default. It's the built-in Java decompiler used by IntelliJ. However, you can extract and use it separately.

**How to Use FernFlower from IntelliJ:**

1. **Locate FernFlower JAR in IntelliJ**
   * The FernFlower decompiler JAR is inside IntelliJ's lib folder.
   * Navigate to your IntelliJ installation directory and find:

mathematica

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<IntelliJ Install Directory>/lib/java-decompiler.jar

* + This java-decompiler.jar contains **FernFlower**.

1. **Run FernFlower via CLI**
   * You can use it in the command line as:

sh

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java -cp java-decompiler.jar org.jetbrains.java.decompiler.main.decompiler.ConsoleDecompiler input.class output\_dir/

* + Example:

sh

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java -cp java-decompiler.jar org.jetbrains.java.decompiler.main.decompiler.ConsoleDecompiler HelloWorld.class out/

* + This will place the decompiled Java source file inside the out/ directory.

**Alternative: Downloading FernFlower Separately**

If you want a standalone version, you can also download **FernFlower** from its GitHub repository:

* **GitHub:** <https://github.com/JetBrains/fernflower>

Would you like a script to automate this process?

**You said:**

Yes please share an Automation Example to decompile the class file

**ChatGPT said:**

Here's a **Bash script (Linux/macOS)** and a **Batch script (Windows)** to automate the decompilation process using **FernFlower** from IntelliJ IDEA.

**Linux/macOS (Bash Script)**

Save this script as decompile.sh, give it execute permission, and run it.

sh

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#!/bin/bash # Check if java-decompiler.jar exists INTELLIJ\_DIR="/path/to/intellij/lib" # Change this path FERNFLOWER\_JAR="$INTELLIJ\_DIR/java-decompiler.jar" if [ ! -f "$FERNFLOWER\_JAR" ]; then echo "FernFlower JAR not found at $FERNFLOWER\_JAR" exit 1 fi # Create output directory OUTPUT\_DIR="./decompiled" mkdir -p "$OUTPUT\_DIR" # Check if input class file is provided if [ -z "$1" ]; then echo "Usage: ./decompile.sh <YourClassFile.class>" exit 1 fi # Run FernFlower decompiler java -cp "$FERNFLOWER\_JAR" org.jetbrains.java.decompiler.main.decompiler.ConsoleDecompiler "$1" "$OUTPUT\_DIR/" echo "Decompiled file saved in: $OUTPUT\_DIR/"

**How to Use**

1. **Modify** INTELLIJ\_DIR to the correct path where IntelliJ is installed.
2. Give execute permission:

sh

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chmod +x decompile.sh

1. Run the script:

sh

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./decompile.sh HelloWorld.class

**Windows (Batch Script)**

Save this script as decompile.bat and run it in the command prompt.

batch

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@echo off setlocal :: Set the path to IntelliJ's lib directory set INTELLIJ\_DIR=C:\Path\To\IntelliJ\lib set FERNFLOWER\_JAR=%INTELLIJ\_DIR%\java-decompiler.jar :: Check if the JAR file exists if not exist "%FERNFLOWER\_JAR%" ( echo FernFlower JAR not found at %FERNFLOWER\_JAR% exit /b 1 ) :: Create output directory set OUTPUT\_DIR=decompiled if not exist "%OUTPUT\_DIR%" mkdir "%OUTPUT\_DIR%" :: Check if class file argument is provided if "%~1"=="" ( echo Usage: decompile.bat YourClassFile.class exit /b 1 ) :: Run the decompiler java -cp "%FERNFLOWER\_JAR%" org.jetbrains.java.decompiler.main.decompiler.ConsoleDecompiler "%~1" "%OUTPUT\_DIR%" echo Decompiled file saved in: %OUTPUT\_DIR%

**How to Use**

1. **Modify** INTELLIJ\_DIR to your IntelliJ installation path.
2. Run the script in Command Prompt:

cmd

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decompile.bat HelloWorld.class

**What This Script Does**

* Automatically finds **FernFlower** inside **IntelliJ's**lib**folder**.
* Creates an output folder (decompiled/) if it doesn’t exist.
* Decompiles the provided .class file and stores the result in decompiled/.

Would you like enhancements, such as batch decompilation of multiple .class files? 🚀

**You said:**

consider hving jd-gui.exe , is there option to use CLI to decompile the class file with jd-gui.exe

**ChatGPT said:**

**JD-GUI** itself does **not** provide a CLI option to decompile .class files. It is mainly a graphical tool. However, **JD-Core**, the decompiler engine behind JD-GUI, has a command-line tool called **JD-CLI** that can be used for CLI-based decompilation.

**Using JD-CLI for Command-Line Decompilation**

**Step 1: Download JD-CLI**

* You can download **JD-CLI** from the official repository:
  + [JD-CLI GitHub Releases](https://github.com/java-decompiler/jd-cli/releases)

**Step 2: Run JD-CLI**

Once downloaded, you can use it as follows:

sh

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java -jar jd-cli.jar -od output\_dir YourClassFile.class

* -od output\_dir → Specifies the output directory.
* YourClassFile.class → The class file you want to decompile.

**Example**

sh

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java -jar jd-cli.jar -od ./decompiled HelloWorld.class

This will place the decompiled HelloWorld.java inside the ./decompiled directory.

**Alternative: Using JD-GUI in GUI Mode via CLI**

If you only have jd-gui.exe, you **cannot** decompile directly via CLI, but you can open a .class file from the command line:

**Windows CMD Example**

cmd

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jd-gui.exe HelloWorld.class

This will open HelloWorld.class inside the JD-GUI interface.

**Automating JD-CLI Decompilation**

If you want an automated script to decompile multiple .class files using **JD-CLI**, you can use the following:

**Linux/macOS (Bash Script)**

sh

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#!/bin/bash JDCLI\_JAR="/path/to/jd-cli.jar" # Update this path OUTPUT\_DIR="./decompiled" mkdir -p "$OUTPUT\_DIR" if [ -z "$1" ]; then echo "Usage: ./decompile.sh YourClassFile.class" exit 1 fi java -jar "$JDCLI\_JAR" -od "$OUTPUT\_DIR" "$1" echo "Decompiled file saved in: $OUTPUT\_DIR/"

Run it as:

sh

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./decompile.sh HelloWorld.class

**Windows Batch Script**

batch

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@echo off setlocal set JDCLI\_JAR="C:\path\to\jd-cli.jar" REM Update this path set OUTPUT\_DIR=decompiled if not exist "%OUTPUT\_DIR%" mkdir "%OUTPUT\_DIR%" if "%~1"=="" ( echo Usage: decompile.bat YourClassFile.class exit /b 1 ) java -jar %JDCLI\_JAR% -od "%OUTPUT\_DIR%" "%~1" echo Decompiled file saved in: %OUTPUT\_DIR%

Run it as:

cmd

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decompile.bat HelloWorld.class

**Conclusion**

✅ **JD-GUI** itself has no CLI decompilation option.  
✅ **JD-CLI** can be used as a command-line decompiler.  
✅ You can automate the process with **JD-CLI** scripts.

Would you like a script that processes an entire .jar file instead? 🚀

**You said:**

Where to get jd-cli.jar file

**ChatGPT said:**

[[Favicon](https://github.com/jd-wrapper/jd-cli)](https://github.com/jd-wrapper/jd-cli" \t "_blank)

**[jd-wrapper/jd-cli: JD-CLI, a standalone command line Java ...](https://github.com/jd-wrapper/jd-cli" \t "_blank)**

[github.com](https://github.com/jd-wrapper/jd-cli" \t "_blank)

To obtain the jd-cli.jar file, you can download it from the official JD-CLI GitHub repository. JD-CLI is a command-line utility that decompiles Java .class files into readable .java source code.

**Steps to Download and Use JD-CLI:**

1. **Download the Latest Release:**
   * Visit the [JD-CLI Releases page on GitHub](https://github.com/jd-wrapper/jd-cli/releases).
   * Locate the latest release and download the jd-cli-x.y.z.jar file (replace x.y.z with the version number).
2. **Run JD-CLI:**
   * Open your terminal or command prompt.
   * Navigate to the directory where you downloaded jd-cli-x.y.z.jar.
   * Use the following command to decompile a .class file:

sh

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java -jar jd-cli-x.y.z.jar -od output\_directory YourClassFile.class

* + - -od output\_directory specifies the directory where the decompiled .java files will be saved.
    - YourClassFile.class is the path to the .class file you wish to decompile.

**Example:**

If you have a HelloWorld.class file and want to decompile it:

sh

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java -jar jd-cli-1.2.1.jar -od ./decompiled HelloWorld.class

This command will decompile HelloWorld.class and save the resulting HelloWorld.java file in the ./decompiled directory.

**Note:** Ensure you have Java Runtime Environment (JRE) version 8 or newer installed on your system to run JD-CLI.

For more detailed information and updates, refer to the [JD-CLI GitHub repository](https://github.com/jd-wrapper/jd-cli).

Sources

**You said:**

Does jd-cli-1.0.0-min.jar works for Java decompilation using CLI

**ChatGPT said:**

Yes, jd-cli-1.0.0-min.jar can be used for Java decompilation via CLI, but it may have limited features compared to later versions.

**How to Use**jd-cli-1.0.0-min.jar**for Decompilation**

Once you have the jd-cli-1.0.0-min.jar file, you can decompile .class files using the following command:

sh

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java -jar jd-cli-1.0.0-min.jar -od output\_directory YourClassFile.class

**Example**

sh

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java -jar jd-cli-1.0.0-min.jar -od ./decompiled HelloWorld.class

This will decompile HelloWorld.class and place the .java file inside the ./decompiled folder.

**Checking JD-CLI Version (Optional)**

To confirm the JD-CLI version, run:

sh

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java -jar jd-cli-1.0.0-min.jar --version

**Limitations of**jd-cli-1.0.0-min.jar

* Older version, might not support newer Java bytecode (Java 9+).
* May lack optimizations and fixes found in later releases.
* If issues arise, try using a newer **JD-CLI** version from [GitHub](https://github.com/jd-wrapper/jd-cli/releases).

Would you like a script to automate multiple .class file decompilations? 🚀

**You said:**

LInk https://github.com/jd-wrapper/jd-cli/releases shows only 1.0.0 version jd-cli jar . suggect any other link there to get latest version

**ChatGPT said:**

[[Favicon](https://central.sonatype.com/artifact/com.github.kwart.jd/jd-cli)](https://central.sonatype.com/artifact/com.github.kwart.jd/jd-cli" \t "_blank)

**[com.github.kwart.jd:jd-cli - Maven Central - Sonatype](https://central.sonatype.com/artifact/com.github.kwart.jd/jd-cli" \t "_blank)**

[sonatype.com](https://central.sonatype.com/artifact/com.github.kwart.jd/jd-cli" \t "_blank)

I understand you're seeking the latest version of **JD-CLI** for command-line Java decompilation. The official GitHub repository currently lists version 1.0.0 as the latest release. However, alternative sources indicate that version 1.2.1 is available.

**Alternative Download Sources:**

1. **Maven Central Repository:**
   * Version 1.2.1 of JD-CLI is available on Maven Central.
   * **Direct Download:** You can download the jd-cli-1.2.1.jar file from [Maven Central](https://repo1.maven.org/maven2/com/github/kwart/jd-cli/1.2.1/jd-cli-1.2.1.jar).
2. **Jar-Download.com:**
   * This site offers JD-CLI version 1.2.1 for download.
   * **Direct Link:** [JD-CLI 1.2.1 Download](https://jar-download.com/artifacts/com.github.kwart.jd/jd-cli/1.2.1/source-code)

**Building from Source:**

If you prefer to build JD-CLI from the latest source code:

1. **Clone the Repository:**
   * bash

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git clone https://github.com/jd-wrapper/jd-cli.git cd jd-cli

1. **Build the Project:**
   * Ensure you have **Java Development Kit (JDK) 8** or newer and **Gradle** installed.
   * Run the build command:
     + bash

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./gradlew build

* + After the build completes, the jd-cli-x.y.z.jar file will be located in the build/libs/ directory.

**Note:** Building from source ensures you have the most recent version, including any updates not yet published in binary form.

**Usage:**

Once you have the jd-cli.jar file, you can decompile Java class files using the command line:

bash

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java -jar jd-cli.jar -od output\_directory YourClassFile.class

* -od output\_directory: Specifies the directory where the decompiled .java files will be saved.
* YourClassFile.class: The path to the .class file you wish to decompile.

**Example:**

bash

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java -jar jd-cli.jar -od ./decompiled HelloWorld.class

This command will decompile HelloWorld.class and save the resulting HelloWorld.java file in the ./decompiled directory.

For more detailed information and updates, refer to the [JD-CLI GitHub repository](https://github.com/jd-wrapper/jd-cli).

Sources

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