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CS153-Assignments / HW06 / docs / Setup Guide.md

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1 contributor

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Simpl ©: Setup Guide

Building Simpl Source

To build Simpl, navigate to the Simpl directory and run:

```
./build.sh
```

The above will generate antlr sources, compile all java into an `out` folder, and run various tests. The project is built with the only dependencies being the JVM assembler `Jasmin` and the parser generator `Antlr`.

Compiling a Simpl program

To compile a `.simpl` file, navigate to the Simpl directory and run:

```
./simplc.sh <source_filepath>
```

The above will generate `.j` (JVM assembly) and a `.class` (JVM bytecode) files of the same name. The output location defaults to the parent directory of the given sourcefile, but can be specified with the command line option `-d` (to be added in the near future).

Executing a Simpl program

To execute a program, run it by specifying its compiled class filepath by using:

```
./simplr.sh <class_filepath>
```

The above will run the compiled Simpl program with any output printed to console.

Troubleshooting and Tips

If executing `java` or `javac` directly, ensure classpath is set correctly by using:

```
export CLASSPATH="out:<jasmin2.4-jar-path>:<antlr4.7-jar-path>:$CLASSPATH"
```

If a `permission denied` error occurred while running a script, grant access by using:

```
chmod +x ./<script_filepath>.sh
```

If newline issues occur after modifying the scripts on windows, remove excess new line characters by using:

```
sed -i 's/\r$//' ./<script_filepath>
```

Delete any generated jasmin and class files by using (optionally limit depth by adding `-maxdepth 1`):

```
find <output_directorypath> -regex ".*\.(j|class)" -type f -delete
```