

GETTING STARTED

Prerequisite: You have Java SDK 5 (or higher) installed on your system.

Download the project ZIP-file from github and unzip it to a temporary folder ("root" folder).

To work with the BASIC Compiler source code in your Eclipse IDE, import the BASICCompiler project from the root folder as an *Existing Projects into Workspace*, as usual.

To compile the BASIC compiler into a convenient JAR-file, open a command prompt in the root folder and type (Windows only, %JAVA_HOME% points to the installation folder of your Java SDK):

```
> makejar
```

To run the BASIC compiler and get command-line options, type

```
> java -jar BASICCompiler.jar
```

BASIC Computer

Version 1.3 (25-MAR-2015) by Lorenz Wiest

```
Usage:  java BASICCompiler <BASIC source filename> <Java class filename> [<options>]
Options: -formatted=<filename> | Writes a formatted BASIC source file
        -optimize               | Applies compiler optimizations
```

Option `-formatted=<filename>` writes a pretty-printed version of the BASIC program to `<filename>`. The line numbers of the BASIC program are renumbered from 1000 on in increments of 10.

Option -optimize applies compiler optimizations. As of now, the only implemented optimization is the folding of constant string arguments in PRINT.

To compile a BASIC program, for example STARTREK.BAS in folder sample, type

```
> java -jar BASICCompiler.jar samples/STARTREK.BAS StarTrek
```

To run the compiled program, type

```
> java StarTrek
```

Enjoy! – Lorenz