

Welcome to the **LEGUP** development team! Depending on your level of skill and experience, you may need more or less time to become comfortable working on the project. This guide will help you prepare your computer so you can spend more time contributing and less time setting up.

LEGUP is developed in **Java** using **Swing** for the GUI, making it platform independent, operable on any system with a **Java Runtime Environment** (JRE). Development is shared by use of a **Git** server.

There is no required operating system, integrated development platform (IDE), or Git client to contribute to LEGUP. This guide documents several methods of setting up using a variety of operating systems and software. Every developer has their own preferred software and style. If you are new to any of this, we recommend you stick to one of the methods described in this document. If you already have your preferred development platform set up, feel free to skip around, and contribute your own expertise!

STEP ONE – Setting up the JDK

In order to compile the LEGUP source code into Java executables, you will need the **Java Development Kit** (JDK). We recommend you use the official Oracle (formerly Sun) JDK for compatibility. This also includes the JRE required for running the Java executable.

WINDOWS

The self-extracting installer can be found at

http://java.sun.com/javase/downloads/widget/jdk6.jsp. For detailed installation instructions, please see Oracle's guide at

http://www.oracle.com/technetwork/java/javase/documentation/install-windows-152927.html

MAC

Please see Apple Developer Connection at http://developer.apple.com/java/download/ to download and install the JDK.

UBUNTU

If you are using Ubuntu 10.04, you can install the official JDK by issuing the following commands in a terminal:

```
sudo add-apt-repository "deb http://archive.canonical.com/ lucid partner" sudo apt-get update sudo apt-get -y -m install sun-java6-jdk sun-java6-fonts
```

OTHER

Detailed installation instructions for most platforms can be found on the Oracle website at http://www.oracle.com/technetwork/java/javase/index-137561.html.

STEP TWO – Downloading the source code and setting up your development environment

You can download the LEGUP source code via any method you like. The source is located at https://github.com/Bram28/LEGUP. A good guide for doing this is located here: http://githowto.com/. Alternatively, you can download, compile, and execute the code in Eclipse via the following directions.

ECLIPSE

Eclipse (http://www.eclipse.org/downloads/) is a free cross platform IDE with plugins for many languages, including Java. Download "Eclipse IDE for Java Developers", or install from the repositories.

Once installed, you can create a new project by "File" > "New" > "Project". If you already have downloaded LEGUP, find "Java Project from Existing Ant Buildfile" and follow the wizard, using **<yourwork-folder>/build.xml** as the ant build file.

If using Eclipse's Git plugin, you can download it by going to "Help" > "Install New Software". In the "Work with:" drop down menu, select "--All Available Sites--". After it finishes loading, expand the "Collaboration" section. Check "Eclipse EGit" and go through the remaining prompts. When Eclipse restarts, you can download LEGUP by going to "File" > "Import" > "Git" > "Projects from Git" > "URI" and entering https://github.com/Bram28/LEGUP.git as the URL along with your Github credentials. Next, select the branch you wish to work with. After selecting the import directory, Eclipse will start downloading the source code. Import the program as a general project. To run LEGUP, open the legup/build.xml file. Right click on "test" and select "Run As" > "Ant Build".

STEP THREE – Contribute!

If you've made it this far, congrats! Now you can actually start working on learning what makes LEGUP tick, and how to improve it. Once you're ready to start making changes, you should know a few things about our Git system. First off,

EXTREMELY IMPORTANT! DO <u>NOT</u> DELETE, MOVE, OR ADD FILES OR FOLDERS UNLESS YOU REALLY KNOW WHAT YOU ARE DOING!