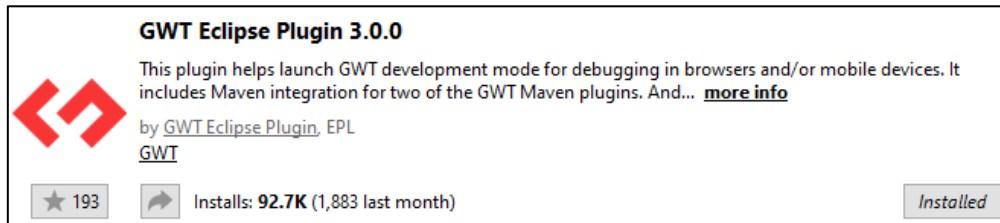


Installing Tools

1. Install Eclipse Oxygen for Java Developers, I highly recommend using the Eclipse Installer:
<https://www.eclipse.org/downloads/packages/installer>
2. Install the GWT plugin for Eclipse. GWT allows Java code to be compiled to JS.
 - a. In Eclipse, select **Help => Eclipse Marketplace...**
 - b. Search for “gwt” and you should be able to find the most recent version of gwt:



Marketplace page for GWT 3.0.0

- c. Click on **Install**
3. Install Java SE Development Kit 8 from
<https://www.oracle.com/java/technologies/javase/javase-jdk8-downloads.html> and note where it is installed. You will need to create or sign into an Oracle account.
 4. Clone or download the Git repo at <https://github.com/pfalstad/circuitjs1>

Compiling for Development

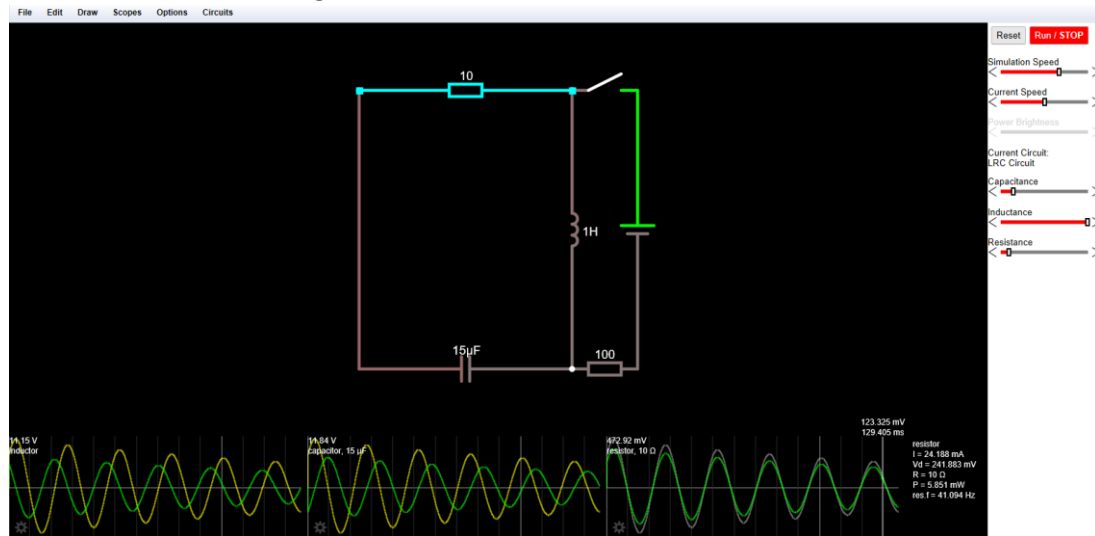
1. Open the circuitjs1 repo in Eclipse
 - a. Select **File => Open Project from File System...**
 - b. Select the circuitjs folder and tick the options **Search for nested projects** and **Detect and configure project natures**.
2. Select JRE 1.8 as the active JRE in Eclipse
 - a. Navigate to **Project => Properties...**
 - b. Select **Java Build Path** from the panel on the left
 - c. Click on the **Libraries** tab
 - d. If you have another version of Java installed, you may see an entry beginning with “JRE System Library”. If so, select this entry and click **Edit**. Otherwise, click **Add Library**.
 - e. Click on **Alternate JRE** and **Installed JREs...**
 - f. A window should appear listing installed JREs.
 - g. Click **Add...**
 - h. Select **Standard VM** and click **Next >**.
 - i. Next to **JRE Home**, select **Directory** and navigate to **jdk1.8.0** (or similar) on your system as installed earlier.
 - j. Select **Finish**
 - k. Tick the box for **jdk1.8.0** and select **Apply and Close**.
3. Compile with GWT
 - a. Click on the GWT icon in the toolbar:



GWT icon

- b. Select the project from the package explorer and click on **GWT Compile Project...**

- c. Click on **Compile**
- d. If you encounter an error at this stage related to com.google.gwt.core.Core, ensure that you are using JRE 1.8.
4. Move contents of “war” folder (EXCEPT “WEB-INF”) to server docs folder
5. Start the server
6. Open a web browser and navigate to “http://localhost:[PORT NUMBER]/circuitjs.html”. You should see the following:



Falstad running on local server