

User Guide: Setting Up Fiji with Custom Thermal Image Plugins

This guide explains how to set up Fiji (ImageJ) and use two custom JavaScript plugins:

1. **Temperature on Cursor** (displays real temperature at the mouse location)
2. **Temperature LUT Bar** (displays a visual temperature color scale)

1. Installing Fiji

1. Download Fiji from the official site:
 - <https://imagej.net/Fiji/Downloads>
2. Choose the appropriate version for your operating system (Windows, Linux, macOS).
3. Extract the archive to a location of your choice.
4. Launch Fiji by running the executable:
 - Windows: fiji-win64.exe
 - Linux: fiji-linux64
 - macOS: fiji.app

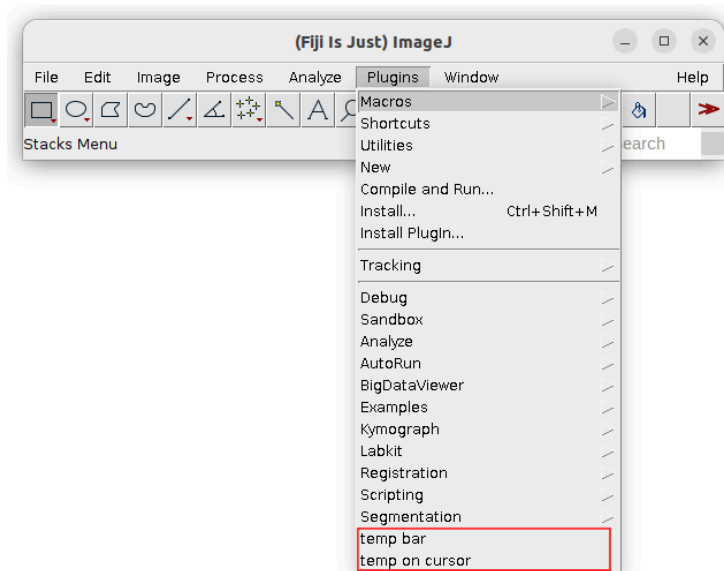
2. Preparing the Plugin Scripts

Download the following .js files:

- temp_on_cursor.js
- temp_bar.js

3. Installing the Plugins into Fiji.

1. Navigate to where FIJI is installed to find all the subfolders.
2. Copy both of the previously downloaded plugins into the Fiji/plugins folder.
3. Restart Fiji or click Help > Refresh Menus.
4. Your plugins will now appear under the Plugins menu.



4. How to Use the Plugins

Temperature on Cursor

- Open a 16-bit thermal TIFF image in Fiji.
- Go to Plugins > temp_on_cursor
- Hover the mouse over the image. The plugin will display the temperature at the current cursor position.
- To exit the plugin, close the image.

Temperature LUT Bar

- With your thermal image open, run:
 - Plugins > temp_bar
- A new window will open with a vertical color bar that:
 - Shows colors from the image's LUT
 - Labels each step with the corresponding temperature