I’d recommend downloading a fresh copy of Fiji and running it from a separate directory to keep any muck-ups isolated.

**Installing customized SPIMAcquisition plugin**

1. Download the latest version of Fiji (I’d recommend 64-bit if you can run it), unzip in a fresh directory and run the executable.
2. Add the Micro-Manager development branch to the updates in Fiji.
   1. Select “Help > Update…”
   2. Click “Manage update sites”
   3. Click “Add” (scroll down to bottom)
   4. Change the “Name” of new entry to “Micro-Manager-dev”
   5. Change the “URL” to “http://sites.imagej.net/Micro-Manager-dev/”
   6. Make sure the box to the left of the entry is selected and click “Close”
   7. Click “Apply changes”
   8. Click “Ok”
   9. Close Fiji

**Install Maven**

1. Download and extract maven into some directory
2. Setup Environmental Variables to add Maven to run path
   1. get to Environmental Variables by right clicking on Computer and select Properties” then slecting “Advances System Properties” the “Advanced” tab and click “Environmental Variables…” at the bottom”
      1. User Variables

M2\_HOME = “[unzip-patch]\apache-maven-3.2.5”

M2 = %M2\_HOME%\bin

Path = %M2%

* + 1. Make sure JAVA\_HOME is set to something like “~\Program Files\Java\jdk…”

1. Make sure your run path is setup by running “mvn” from a command prompt

**Create CoherentOBIS.java based on CoherentCube.java**

1. Download [SPIMAcq](https://github.com/openspim/SPIMAcquisition/archive/master.zip) and extract into ~\Fiji.app\plugins\Micro-Manager\
2. Open ~\Fiji.app\plugins\Micro-Manager\src\main\java\spim\setup\CoherentCube.java in some form of text editor (I just used gedit for Windows as it formats and color-codes)
3. Find and Replace (Ctrl+H) the four instances of CoherentCube with CoherentOBIS.
4. Look up properties **PowerSetpoint**, **Minimum Laser Power**, and **Maximum Laser Power** in [OBIS](https://github.com/hadim/micromanager/blob/96f12e31227b2173b98093036c735a6f42b5516e/DeviceAdapters/CoherentOBIS/CoherentOBIS.cpp) vs. [Cube](https://github.com/hadim/micromanager/blob/96f12e31227b2173b98093036c735a6f42b5516e/DeviceAdapters/CoherentCube/CoherentCube.cpp) github .cpp files to make sure they look the same (they do).
5. Save file as CoherentOBIS.java in the same directory (~\Fiji.app\plugins\Micro-Manager\src\main\java\spim\setup\)
6. Open command prompt and navigate to ~\Fiji.app\plugins\Micro-Manager\
7. Run the following three commands (first 2 should take ~1 sec, last one took ~1min)

mvn install:install-file -DgroupId=org.micromanager -Dversion=1.4.21-SNAPSHOT -Dpackaging=jar -DartifactId=MMJ\_ -Dfile=MMJ\_.jar

mvn install:install-file -DgroupId=org.micromanager -Dversion=1.4.21-SNAPSHOT -Dpackaging=jar -DartifactId=MMCoreJ -Dfile=MMCoreJ.jar

mvn -Dscijava.enforce.skip

1. If no fatal errors (mvn still reports BUILD SUCCESS), copy SPIMAcquisition-1.0.0-SNAPSHOT.jar (found in ~Fiji.app\plugins\Micro-Manager\target\) to ~Fiji.app\mmplugins\, and remove existing SPIMAcquisition.jar