


# Imagej fiji user guide

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This HTML version is also available as a downloadable archive that can be installed on a hard drive to view offline. The original files of this guide are available through the Git version management repository on the Fiji website. Given the intensive development of ImageJ, this guide will always remain incomplete. All ImageJ users and developers are encouraged to contribute to ImageJ documentation resources (see Engagement). Getting started with ImageJ Scenario Custom Interface Team OMERO Guide Fiji This section shows how to use ImageJ as a Python library to analyze data in OMERO. Using the Python API makes it easy to load a 2D aircraft that we need to see or analyze. It's much easier than using the Java API plug-in and Bio-Formats. We'll show in examples: How to start ImageJ in Python. How to download data from OMERO. How to run a macro ImageJ from Python. To use python examples and notepads in this guide, we recommend using Conda (option 1). Conda manages programming environments in the same way as virtualenv. You can also use repo2docker to create and run Docker images locally (option 2). This Docker image will provide the Jupyter Condua and laptops with some workflows to analyze the images. Install omero-py and pyimagej through Conda: Install Miniconda if necessary. Create a programming environment with Conda and activate it: \$ Conda create -n imagej\_python python3.6 \$Conda activate imagej\_python Install omero-py and pyimagej: \$ Conda set -c con We noticed problems using the option 1 approach when running scripts on some operating systems due to problems with the ImageJ1-ImageJ2 bridge. Create a local Docker image using repo2docker, see README.md: \$ pip set jupyter-repo2docker \$ clone \$CD omero-guide-fiji \$repo2docker. When the image is ready: Copy the URL displayed in the In your favorite browser Click a new button on the right side of the window Select Terminal A terminal will open in the new environment Tab A Conda was already created when Docker Image was built to list all the environments Conda, run: Wednesday with OMERO Python binding and several other libraries called laptop, activate it: \$ Conda activate the laptop script used in this document run\_macro\_python. One of the advantages of this approach is that we can only download 2D aircraft that we want to analyze. The script used in this document contains a macro ImageJ1 that needs UI graphics and therefore requires the use of ImageJ in GUI mode. In this mode, GUI processes the resulting window content. If you're working in an example in a Docker container, you'll also need to start a user interface environment if it's not up and running. If you've used option 2 above, select a desktop to run the user interface environment. If you use option 1 above, you will first need to update the script to point to a local Fiji installation or use one of the options described in ImageJ Tutorials. Now you can run the script. To run the script, go to the scripts/python and run: \$ python run\_macro\_python.py If you're not using any ImageJ1 features, such as macro, you don't need a user interface environment. Below we explain the different methods in the scripts: how to start Fiji, how to load airplanes for analysis and how to run ImageJ1 macro. In this example, Fiji was established at the local level. Imported modules are needed: import imagej from omero.gateway import BlitzGateway Load Fiji. If you run the script locally, point to a local Fiji setup or load Fiji on the fly. Note that the headless option was installed on False, as we need a graphical user interface to run ImageJ1 macro: def start\_fiji (): ij s imagej.init ('s/srv/conda/vnc/Fiji.app', headless)ij.getVersion () the return of ij Connect to the server. It's also important to close the connection again to clear potential resources held on the server. This is done in the disconnection method: def connect (username, username, password): Connection to the OMERO server :p the owner's name: Host name :p username: User :p aram password: Password: Password: Return: Connected BlitzGateway Conn and BlitzGateway (user name, password, password, host, secure-True) conn.connect () conn.c.enableKeepAlive (60) return conn def disconnect (conn): Disconnection from the OMERO server :p aram con: BlitzGateway conn.close() Download the image with IDR: image and conn.getObject (Image, image\_id) Download the binary plane as a numpy array: def load\_plane def (image): Download the 2D aircraft as array :p aramaary image: pixel image and image.getPrimaryPixels () return pixels.getPlane (0, 0, 0) For use in ImageJ, the numpy array will be converted into ImageJ types using the to\_java method. In order to make sure that methods implemented above in a proper standalone script: Wrap it all up in the analysis method and call it from the main: def analyse (ij, conn, image\_id): - Step 3 - Download image - conn.getObject (Image, image\_id) - plane No load\_plane (image) from jnius import auto class ('j. WindowManager') ij.ui (.show ('Image', ij.py.to\_java (aircraft)) macro running (8-bit) ij.py.run\_macro (macro) def main (): try: host name and input (Host wss://idr.openmicroscopy.org/omero-ws/) or wss://idr.openmicroscopy.org/omero-ws user name - public password - public image\_id - int (entry (Image ID 1884807: ) or 1884807) print (initial fiji...) ij s start\_fiji () print (connection to IDR...) conn and connect (hostname, Username password) printing (macro launch...) analysis (ij, conn, image\_id) finally: if conn: disconnected (conn) if \_\_name\_\_ == \_\_main\_\_: basic () © Copyright 2019-2020, Open Microscopy Environment Revision 6ac056ca. 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