OMERO.figure embraces OME-Zarr

Walkthrough 1: Public data (with standalone app)

1. The **`OMERO.figure`** presented in this workshop is available under pre-release (https://pypi.org/project/omero-figure/8.0.1rc2/).
2. **Preliminary step** showing that the **present OMERO.figure workflow is preserved**:
    a. In `OMERO`, open an image in `Figure`. Go to outreach.openmicroscopy.org. Then click onto `Add Image` and paste into the dialog https://livingobjects.ebi.ac.uk/idr/zarr/v0.5/idr0062A/6001240_labels.zarr
3. Open figure app - at https://ome.github.io/omero-figure/
4. `File > Open` -> Load demo figure (or just click onto the **`Open`** button in the first landing page)
5. Find public `OME-Zarr` images
    a. https://ngff.openmicroscopy.org/resources/data/index.html
    b. https://idr.github.io/ome-ngff-samples/ etc.
    c. NB: Don't add **`Plate`** or **`bioformats2raw`** collections. The URL needs to be of an Image. You can use OME NGFF Validator to select a URL of an image in a plate or **`bioformats2raw`** collection
6. Copy Zarr URL and paste into "`Add Images`" dialog in figure app.
    a. Make a nice figure
7. **`Save`** -> will download a **`figure.json`** locally
    a. NB: it can be nice to have your browser ask where to save each Download.
    b. E.g. in Chrome, see chrome://settings/downloads or in Firefox under **`Settings > Files and Applications > Downloads`**
8. Put the figure onto GitHub (or any other public server).
    a. E.g. go to https://gist.github.com/ paste in the **`figure.json`** -> **`Create PUBLIC gist`**
    b. E.g. https://gist.github.com/will-moore/75a7f0de5be0f7b4202d5f0229cadcc9
    c. Click **`Raw`** to see raw json. Copy the URL…
9. Open **`figure.json`** in the Figure app: **`File > Open >`** Paste the URL you copied in the previous step.
    a. The figure will display and the URL will update with …**`?file=url-to-figure`**
    b. Now you can share your public figure:
10. Click onto the Export button top-right. A popup with a clickable link will appear. Follow the instructions in the README doc to which this link leads -> this is an installation of the local **`omero-figure[export]`**

11. The **omero-figure[export]** (to be used on the command line) will create a local .**pdf** with the new figure exported

Walkthrough 2: Local data (with standalone app)

1. Start with some local **Proprietary File Format (PFF),** e.g. **Deltavision**, **Zeiss** etc (you can download images from https://downloads.openmicroscopy.org/images/) and convert it to OME-Zarr with NGFF converter
2. Install and run **Fileglancer:** https://github.com/JaneliaSciComp/fileglancer
    a. May need "**conda install psycopg2**" if pip install fails
3. In **Fileglancer,** browse to the images you converted - Copy URL
4. Go to standalone **Figure** app (same as in Walkthrough 1 above, https://ome.github.io/omero-figure/), create a new **Figure** and **Add Images**. Make a nice figure.
5. Download the **figure.json** file by clicking on **Save**
6. Install **omero-figure[export]** locally and run the export script (covered in Walkthrough 1 above).
7. **Fileglancer** must be running during export as it serves OME-Zarrs. Also, **Fileglancer** expects the files to not move on your local disk.

To be discussed

1. Working on using FastAPI backend to run local (similar to Fileglancer) which will serve the figure app and allow you to browse your local file-system from within the figure app to save files, and run the figure export from the browser (no command-line export)
2. Re-name OMERO.figure to OME.figure? Good idea?

Additional material

Links to public figure .json files

1. https://gist.githubusercontent.com/pwalczysko/1a454e10e10754e881a8ac845cb363f0/raw/a1413379f35daf59516bf0421c67ea5f0c1c4b79/ome2026-from-scratch.json
2. https://gist.githubusercontent.com/pwalczysko/7c987d38b7910521f128d85d135ca4ed/raw/597bc1b526d8a146c2c8a5843826a3982107d0a4/test-ome-2026.json
3. https://gist.githubusercontent.com/pwalczysko/433ac6a98b9157b722d08a534553a692/raw/7963fa9c87bb6d66d73c96018c2e5f4bfb1911b6/Figure_2026-04-24_13-21-25.json