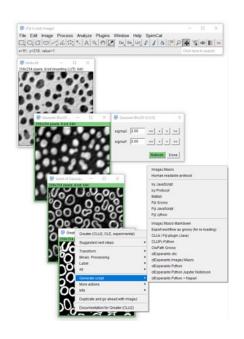
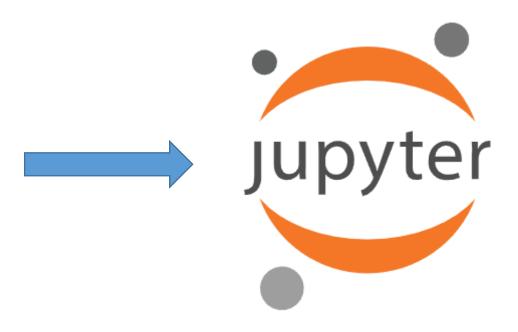




From assistant to notebooks

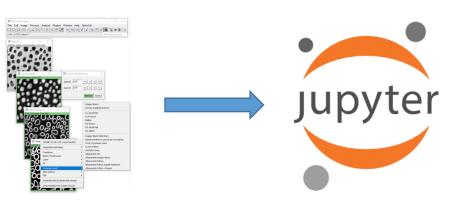
Till Korten





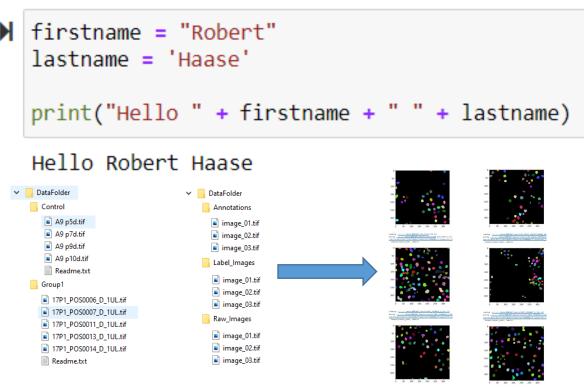


Exporting workflows as notebooks



Python programming basics

Processing folders of images



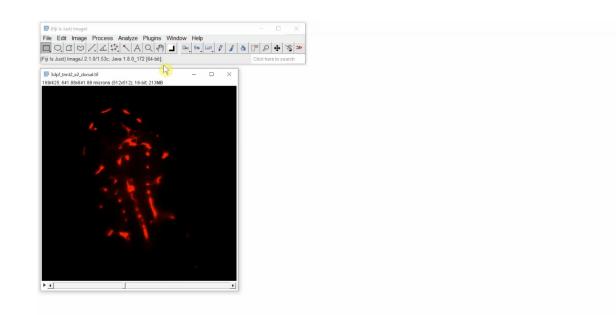
Recap – creating image analysis workflows



GPU acceleration + code generation



After setting up the workflow, generate code!





Special thanks to Elisabeth Kugler!



Elisabeth Kugle @KuglerElisabeth



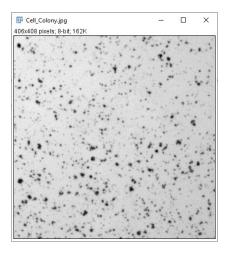
Image data source: Elisabeth Kugler; labs of Tim Chico and Paul Armitage, The University of Sheffield (UK)" https://zenodo.org/record/4204839#.X8DCRGj7Q2w

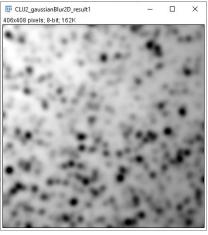


CLIJ2: What every ImageJ Macro script must have



Load data



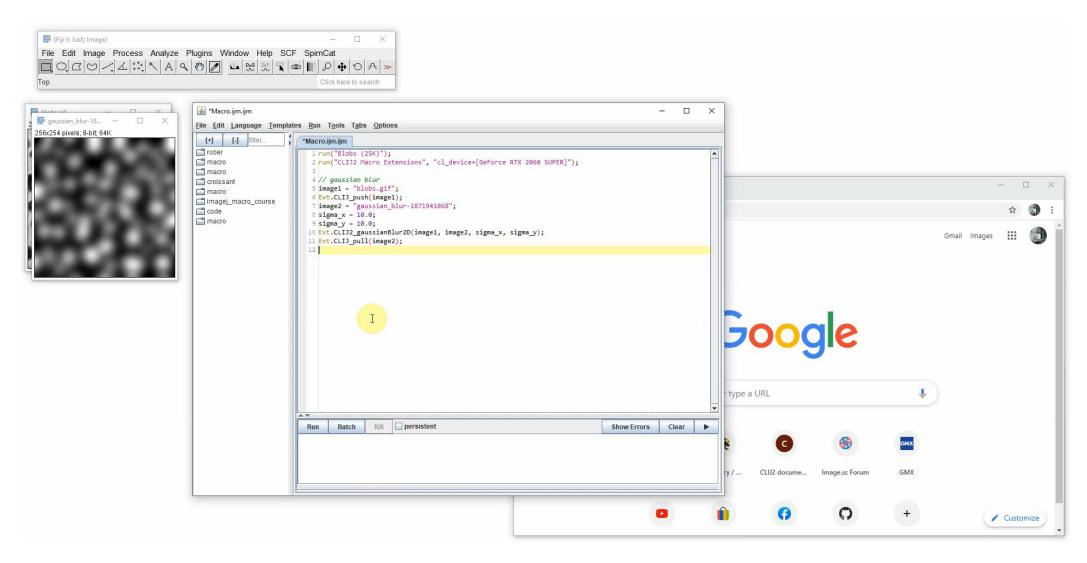




5

CLIJ2: Macro editing



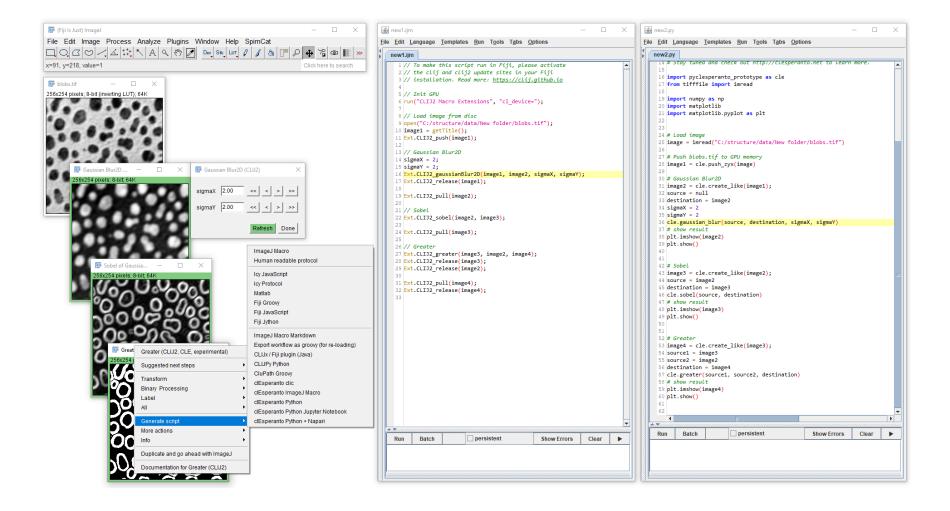




clEsperanto script language comparison



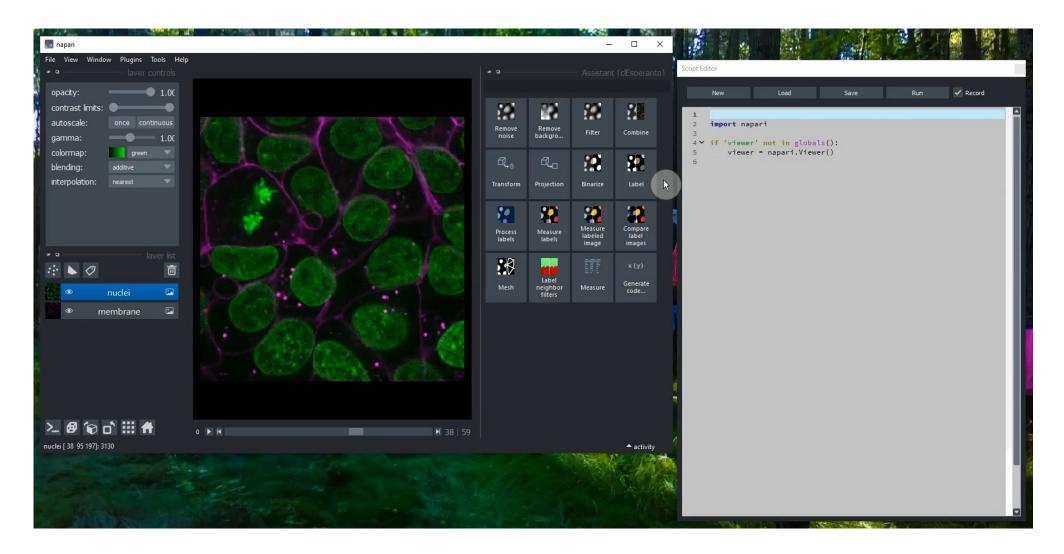
• Generate multiple scripts in multiple languages from a given Image Data Flow Graph





Export code to Python







Export code to Jupyter Notebooks

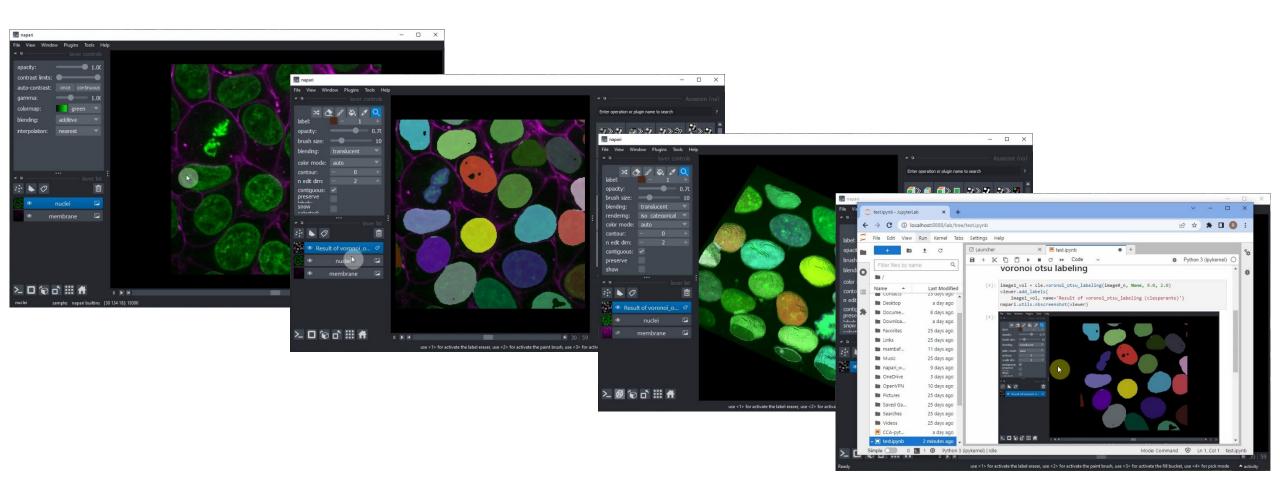




Summary



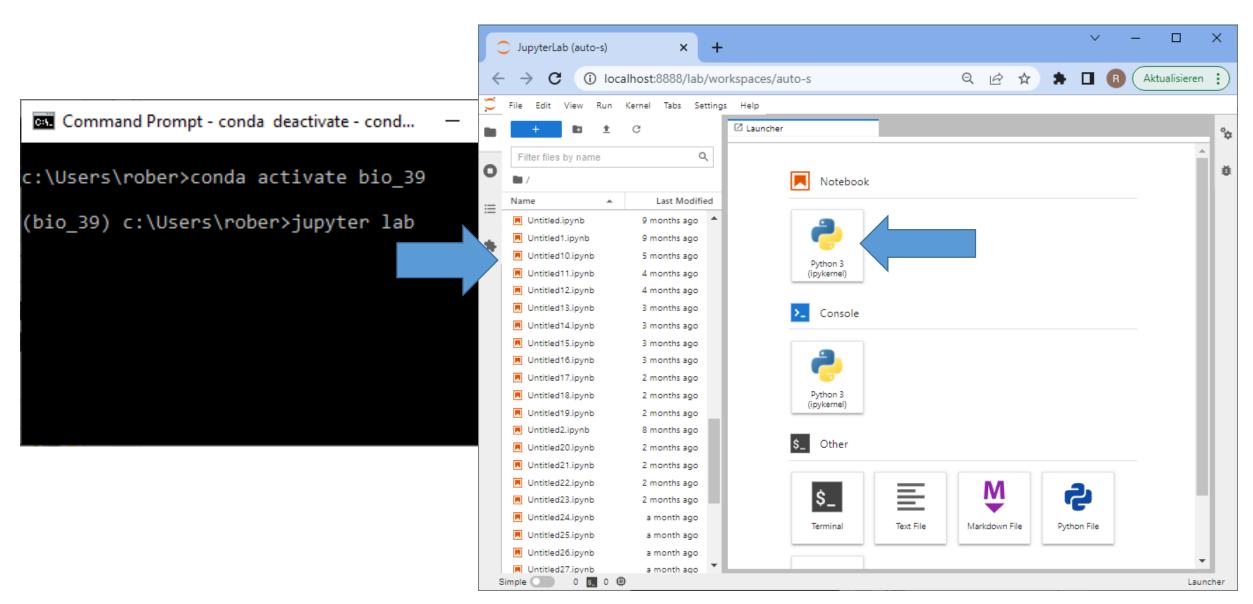
• Use the Napari Assistant to generate a Jupyter Notebook





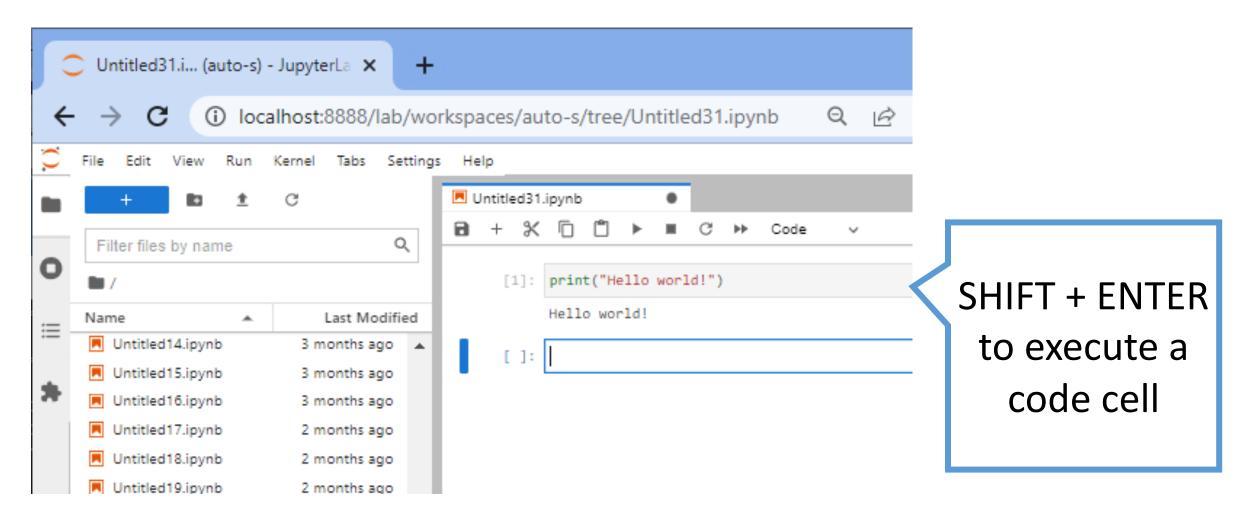
Open the notebook in Jupyter lab





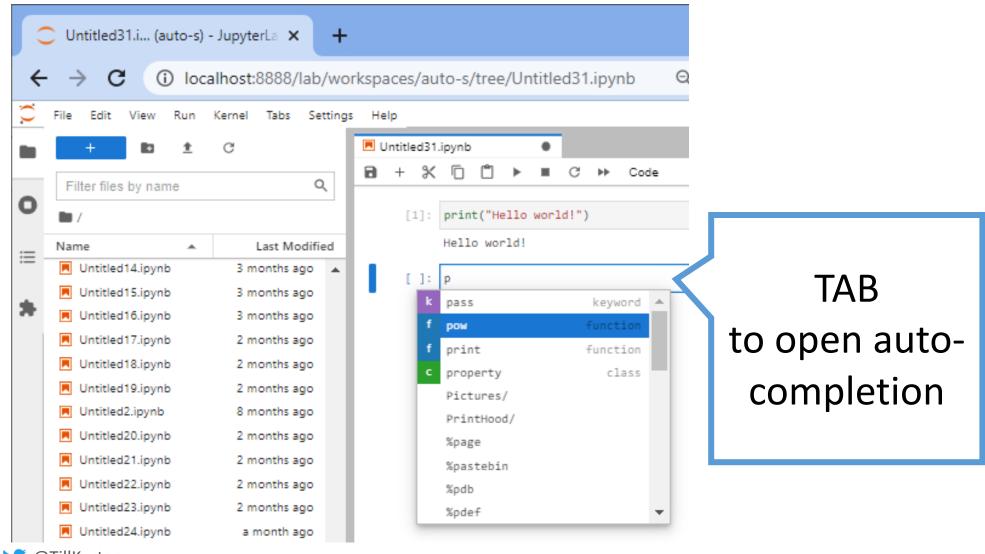


Execute code cell-by-cell and see results instantaneously





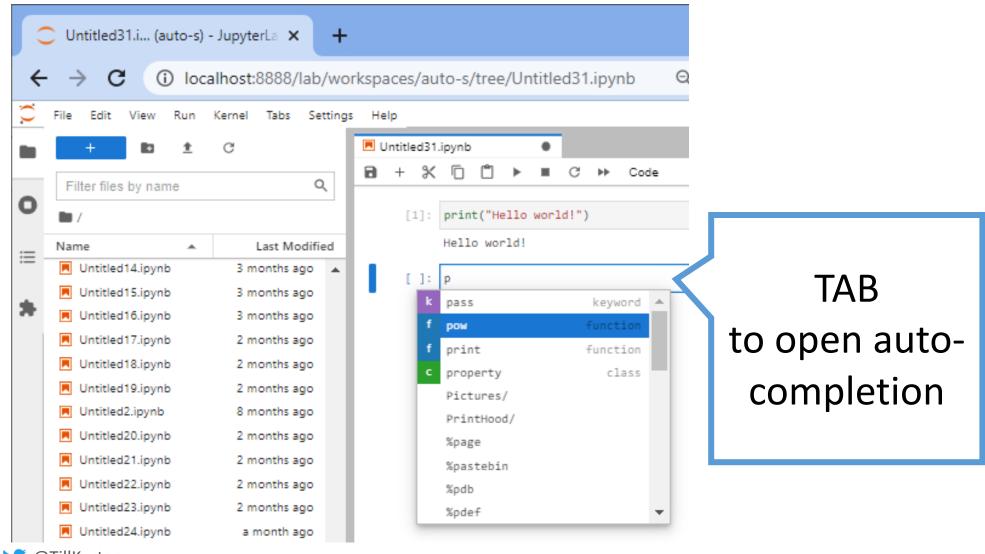
Context-specific help, auto-completion



↑ @TillKorten



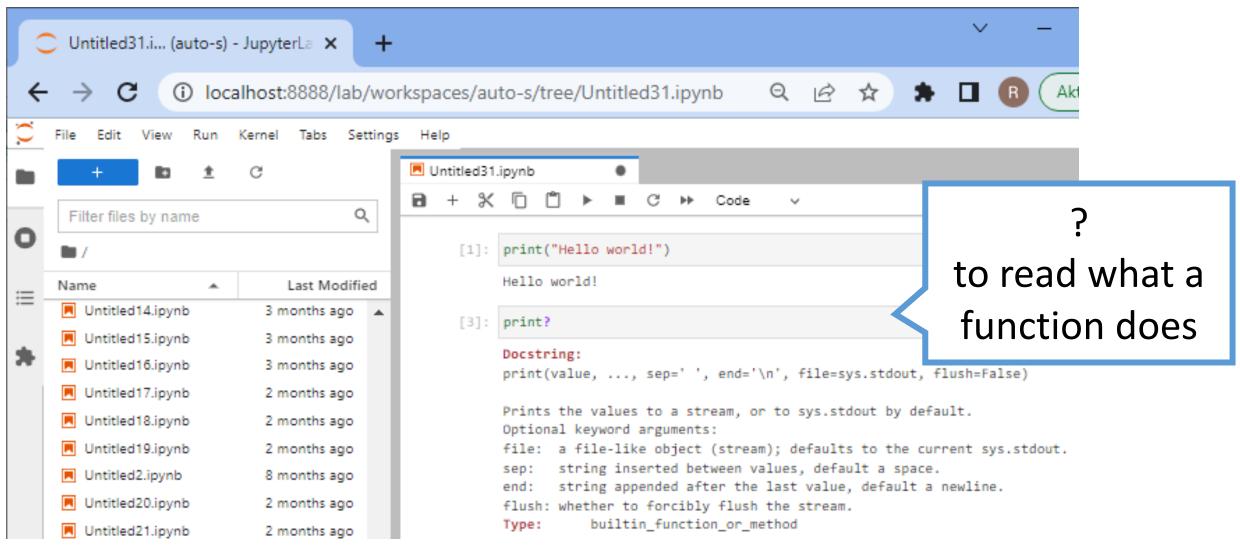
Context-specific help, auto-completion



↑ @TillKorten

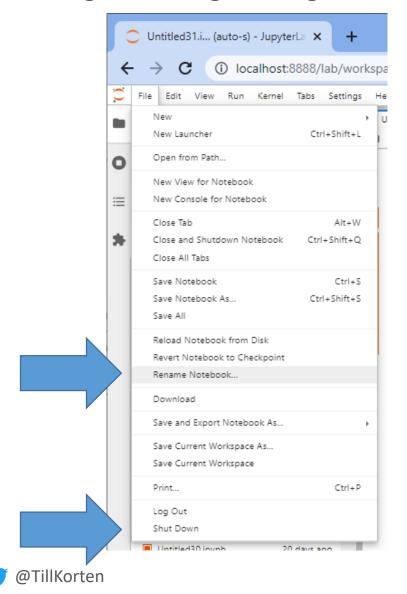


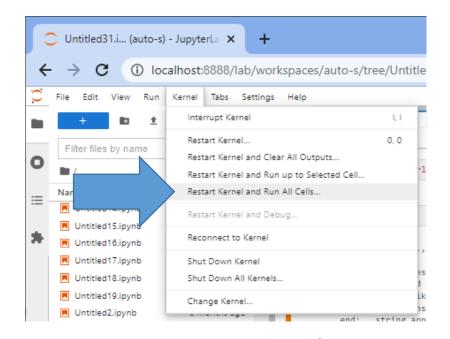
Help / "docstrings"





Saving / renaming / closing





Enforcing a "clean" execution state is important for ensuring reproducibility and repeatability

Live demo: create workflow notebook using napari



