

Implementation of Python Large Optic Stitching software with orange data mining platform.

Installation orange-pylost (includes PyLOSt libraries)

- Install Orange software (<https://orangedatamining.com/download/>)
- Install git, if not already present (<https://git-scm.com/downloads>)
- Run the following command in 'Orange command prompt'

```
pip install git+https://gitlab.esrf.fr/moonpics_stitching_2018/orange-pylost.git
```

- Start Orange shortcut (or with command orange-canvas)

Reinstall orange-pylost with following

- `pip uninstall orange-pylost`
- `pip uninstall pylost`
- `pip install git+https://gitlab.esrf.fr/moonpics_stitching_2018/orange-pylost.git`

For development of orange-pylost widgets install as follows

- `git clone https://gitlab.esrf.fr/moonpics_stitching_2018/orange-pylost.git`
- `git clone https://gitlab.esrf.fr/moonpics_stitching_2018/PyLOSt.git`
- In orange-pylost directory, using Orange command prompt run

```
python -m pip install -e . --no-deps --no-binary :all:
```

Installation orange-pylost stable version using Anaconda environment

- Install **Miniconda 4.10.3 Python 3.9.5 released July 21, 2021** (all users installation) which can be found here as archive: <https://repo.anaconda.com/miniconda/> (~60MB)
- Install stable pylost and orange-pylost source codes with following commands

```
git clone https://gitlab.esrf.fr/moonpics_stitching_2018/orange-pylost.git@021cc2e7c168565eaa0eb4f3c82b853f4c4c2d57
```

```
git clone https://gitlab.esrf.fr/moonpics_stitching_2018/PyLOSt.git@92534fedfe8769ad13596e59c0da64a2038b1a62
```

- Run the following in mini-conda command prompt.

The **pylost_orange_py38.yml** file is available at https://gitlab.esrf.fr/moonpics_stitching_2018/orange-pylost/-/tags/stable_version_miniconda-4-10_py38.

```
conda env create -f pylost_orange_py38.yml
conda activate pylost
cd /PyLOSt <-- PyLOSt folder containing setup.py
python setup.py develop --no-deps
cd /orange-pylost <-- orange-pylost folder containing setup.py
python setup.py develop --no-deps
```