

# Hands-on session 3.1: image reconstruction using the PyTorch and Spyrit packages

N Ducros, T Leuliet, A Lorente Mur, L Friot Giroux, T. Grenier  
University of Lyon  
nicolas.ducros@creatis.insa-lyon.fr

April 22, 2021

## Quick start guide

1. Create a new workspace in your personal project:
  - Press the 'Create Workspace' button
  - Select 'Start from scratch'
  - Set 'Environment' to 'Pytorch 1.7' and 'Machine' to 'GPU'
  - Press the 'Create environment' button
2. Enter in the new workspace (Warning: this step can take several minutes)
3. Add dataset using the right-hand panel:
  - Type 'dlmis21\_reconstruction\_hands\_on\_vf/2'
  - Click on the 'Attach dataset' button
4. In a 'New Launcher' (directly accessible, if not, via File | New Launcher) choose 'Terminal' and run the following command lines:

```
$ wget https://www.creatis.insa-lyon.fr/~ducros/hands_on/start.sh
$ bash ./start.sh
```

NB: The downloads and installation typically take two minutes

```
$ rm start.sh
```
5. Launch the jupyter notebook  
`/floyd/home/spyritexamples-master/2021_DLMIS_Hands-on/main.ipynb`

Remark: If you need to restart your workspace. You'll need to run the following command in a terminal and restart your Jupyter kernel.

```
$ pip install -e spyrit
```