

**TYKKY**

## What is Tykky?

- A tool to used to reduce the load on the filesystem caused by large conda/python installations
- Tries to be as drop in replacement for most usecases and be very simple to use.
  - Uses containers, but tries to hide them
- Available on **Puhti**, **Mahti** and **Lumi** (under a different name *lumi-container-wrapper* )

## conda-containerize

- Creating a conda installations from an env.yaml / explicit env.txt file

```
$ conda-containerize new --prefix Inst/ env.yaml
[ INFO ] Constructing configuration
.
.
.
[ INFO ] Done, duration: 157s
[ INFO ] Program has been installed to Inst/
```

Conda installations should not be done directly on disk, instead using this tool

## pip-containerize

- Creating a pip based installation from a requirements.txt file

```
$ pip-containerize new --prefix Py/ req.txt
[ INFO ] Constructing configuration
:
:
[ INFO ] Done, duration: 157s
[ INFO ] Program has been installed to Ins/
```

- Very small pip installations are ok, for larger environments prefer the tool
- Extending with **pip install --user** works, but produced binaries have to be fixed manually

## Misc

- Updating installations requires using the **update** keyword
  - **pip-containerize update --post-install=script.sh ... TargetDir**
- Building environments based on standard installations possible using **--post-install**
- By default full host environment is available