GitHub Container Repo

Add environment setup here
- Dockerfile
- environment.yml
- Directly included (vendored) packages and libraries

Build container on push
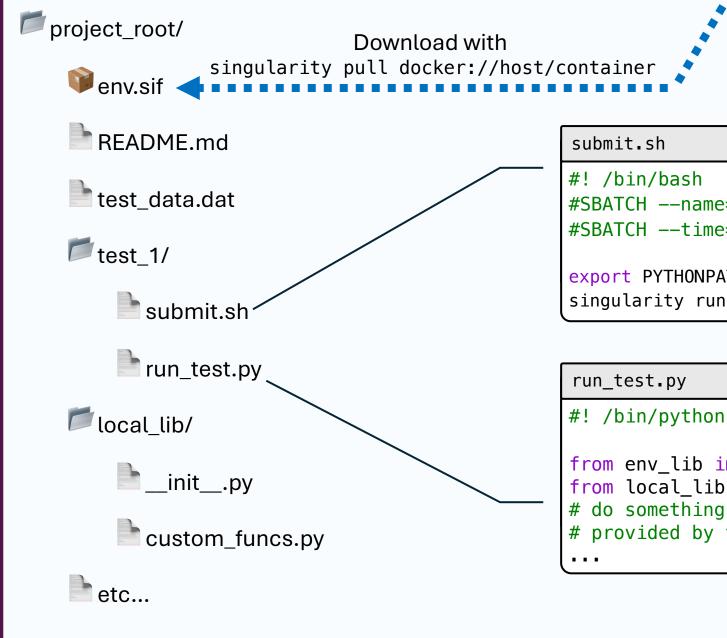
Save on host

Cloud Container Host

Once built, the container is stored by some standard container host, e.g.
- GitHub (ghcr.io)
- DockerHub (hub.docker.com)

Cluster File System

📁 project_root/

📦 env.sif

Download with
`singularity pull docker://host/container`

📄 README.md

📄 test_data.dat

📁 test_1/

    📄 submit.sh

    📄 run_test.py

📁 local_lib/

    📄 __init__.py

    📄 custom_funcs.py

📄 etc...

```
submit.sh

#! /bin/bash
#SBATCH --name=...
#SBATCH --time=...

export PYTHONPATH=$PYTHONPATH:..
singularity run  ../env.sif run_test.py
```

```
run_test.py

#! /bin/python

from env_lib import * #provided by container
from local_lib import *# custom user lib
# do something with the libraries
# provided by the container
...
```