Project archival - code and dockerfile in Github, data in dropbox Install a STABLE version of Docker Community Edition (CE) For Mac: https://docs.docker.com/docker-for-mac/install/ For Windows 10: https://docs.docker.com/docker-for-windows/install/ For Ubuntu: https://docs.docker.com/install/linux/docker-ce/ubuntu/ Create a docker account (it is free) https://hub.docker.com/ Using the image as a starting point, write a Dockerfile that configures your environment, you can use as reference the file available in: https://github.com/Rise-group/template_for_project_archival/tree/master/docker Organize a folder for your project with the following structure:

- LICENSE.md: a plain file with your project's license (e.g: the NIT license).

- README.md: a mark-down file describing the project, how to install it, how to use it, what are the dependencies, (i.e: libraries with versions that were used and which are known to work).

- Rigingore: Fire that tells github which files shouldn't be synchronized.

- Additional that the synchronized of the state of the synchronized of th Upload your folder /data to RISE's unlimited Dropbox account.

Note: Make sure that the public link only allows other users to READ and not to EDIT !!!. Upload everything except the /data folder in your project to a private repository in RiSE's github, i.e: https://github.com/Rise-group Camilo can help you with this step. Open a terminal (1)

Clone the github repository for the project:
git clone GITHUB_REPOSITORY For instance:
git clone https://github.com/Rise-group/template_for_project_archival.git cd PATH_TO_YOUR_PROJECT Options for building your docker image cd docker sudo docker build \$(pwd) -t name_for_your_image cd .. For instance: cd docker sudo docker build \$(pwd) -t python3-tensorflow-opency cd ... sudo docker load --input NAME_OF_YOUR_IMAGE.tar For instance: sudo docker load --input python3-tensorflow-opencv.tar Options for running your container Run the container that you need:
sudo docker run -it --rm -e PROJECT_NAME=template_for_project_archival --name "container_tensorflow_opencv_py3" -v s(pwd)/:/template_for_project_archival/:rw python3-tensorflow-opencv /bin/bash

Run the container that you need:
sudo docker run -it --rm -e PROJECT_NAME=template_for_project_archival --name "container_tensorflow-opencv_py3" -v s(pwd)/:/template_for_project_archival/:rw python3-tensorflow-opencv
sudo docker run -it --rm -e PROJECT_NAME=template_for_project_archival/:rw python3-tensorflow-opencv
Now follow the link on the screen and use a web browser to open it. For instance:
http://127.0.0.1:8888/token=c2adcda2a90943a2a80c633da77e61943c7cec7b3d7a6f43 bash --allow-root run_jupyter.sh Follow the guidelines of the README.md file of the project, and run the code within the Docke container copy the displayed token, for instance: 99c36a455ac6cddc1ec0b847b35096366c0c249d71dd1343 Open a web browser and go to: http://localhost:8888/ Optional: image storage Paste the token and log in

Create a new docker image from a container using terminal (2) in order to preserve the installed dependencies for future users:
sudo docker commit CONTAINER_ID PATH_AND_NAME_TO_NEW_IMAGE
sudo docker commit de79fba0947b tensorflow_1_12_opencv_3_4_3_python3

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In terminal (2) save your image to a compressed, tar file and make it accesible, by typing:
sudo docker save —output YOUR_DOCKER_IMAGE.tar YOUR_DOCKER_IMAGE.tar
For instance:
sudo docker save —output typthon3-tensorflow-opencv.tar python3-tensorflow-opencv
sudo chmod a+rw python3-tensorflow-opencv.tar If you won't be using the container anymore, feel free to force it to stop and remove it.

sudo docker im -force CONTAINER_ID

If you won't use the docker image any longer you can delete it as well. To see the image identifier, type:

sudo docker images -a

Once you know the IMAGE_ID of the image that want to delete, type:

sudo docker rmi IMAGE_ID

To run the Jupyter notebook from the terminal