<https://doc.ole.mn/OSOD_2024>

presentations

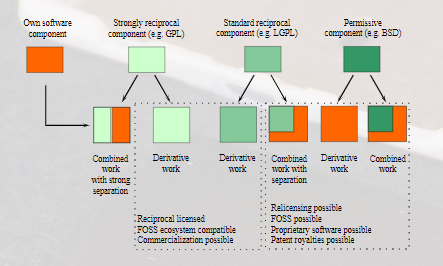
<https://cbds.gitlab.io/estp_2024/Open_Source_Open_Data/>

demo.bokeh.org

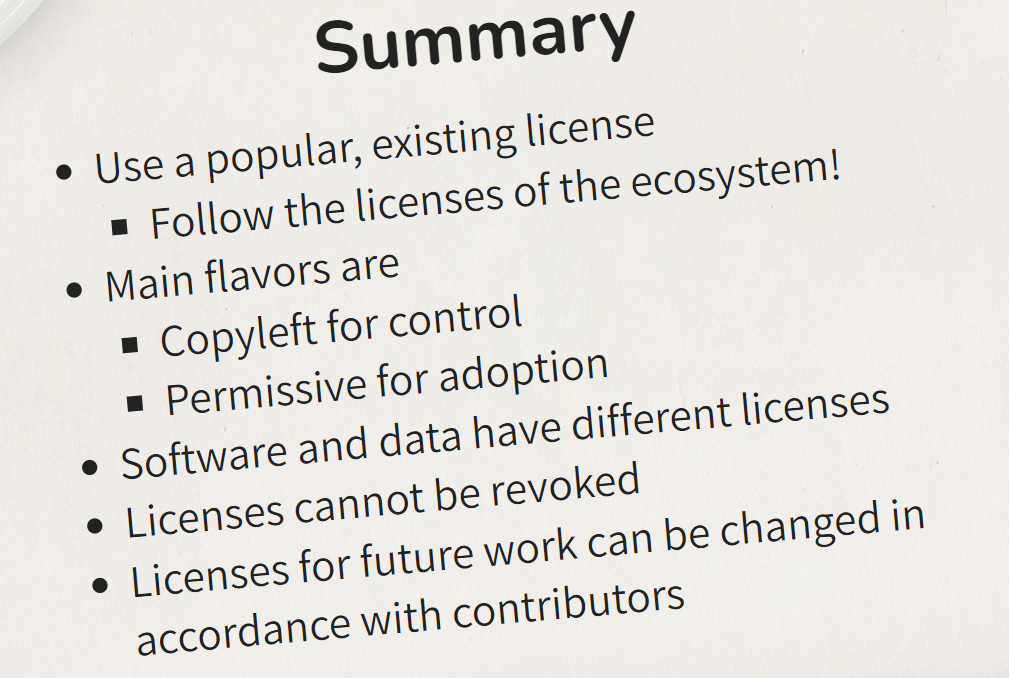
https://tr.linkedin.com/pulse/a%C3%A7ik-kaynak-yazilim-lisans-t%C3%BCrleri-gantektechnology

Ders1

Lisanslar 🡪



Lisansların ortak kullanımına örnek



Google colab

Renku

Terminalde yazılanlar:

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku dataset import --name flight-data https://www.doi.org/10.7910/DVN/WTZS4K renku dataset import --name flight-data https://www.doi.org/10.7910/DVN/WTZS4K

Warning: The '--short-name/--name' flags are deprecated. Use '-s/--slug' instead.

CHECKSUM NAME SIZE TYPE

---------- ----------------------- ------ ---------------

2019-01-flights.csv.zip 7.9 MB application/zip

Warning: Do you wish to download this version? [y/N]: y

2019-01-flights.csv.zip: 0%| | 0.00/7.2019-01-flights.csv.zip: 1%|█▏ | 81.9k/7.93M [002019-01-flights.csv.zip: 4%|████▏ | 295k/7.93M [002019-01-flights.csv.zip: 12%|█████████████▌ | 950k/7.93M [00:2019-01-flights.csv.zip: 22%|████████████████████████▉ | 1.77M/7.93M [00:2019-01-flights.csv.zip: 27%|██████████████████████████████▎ | 2.15M/7.93M [00:2019-01-flights.csv.zip: 35%|██████████████████████████████████████▋ | 2.74M/7.93M [00:2019-01-flights.csv.zip: 38%|██████████████████████████████████████████▊ | 3.03M/7.93M [00:2019-01-flights.csv.zip: 44%|████████████████████████████████████████████████▊ | 3.46M/7.93M [00:2019-01-flights.csv.zip: 49%|███████████████████████████████████████████████████████ | 3.90M/7.93M [00:2019-01-flights.csv.zip: 53%|███████████████████████████████████████████████████████████ | 4.18M/7.93M [00:2019-01-flights.csv.zip: 55%|██████████████████████████████████████████████████████████████ | 4.39M/7.93M [00:2019-01-flights.csv.zip: 58%|████████████████████████████████████████████████████████████████▊ | 4.59M/7.93M [00:2019-01-flights.csv.zip: 60%|███████████████████████████████████████████████████████████████████▎ | 4.77M/7.93M [00:2019-01-flights.csv.zip: 63%|██████████████████████████████████████████████████████████████████████▎ | 4.98M/7.93M [00:2019-01-flights.csv.zip: 65%|████████████████████████████████████████████████████████████████████████▍ | 5.13M/7.93M [00:2019-01-flights.csv.zip: 68%|███████████████████████████████████████████████████████████████████████████▉ | 5.37M/7.93M [00:2019-01-flights.csv.zip: 71%|███████████████████████████████████████████████████████████████████████████████▎ | 5.62M/7.93M [00:2019-01-flights.csv.zip: 73%|█████████████████████████████████████████████████████████████████████████████████▋ | 5.78M/7.93M [00:2019-01-flights.csv.zip: 75%|████████████████████████████████████████████████████████████████████████████████████▏ | 5.96M/7.93M [00:2019-01-flights.csv.zip: 77%|██████████████████████████████████████████████████████████████████████████████████████▊ | 6.14M/7.93M [00:2019-01-flights.csv.zip: 80%|█████████████████████████████████████████████████████████████████████████████████████████▌ | 6.34M/7.93M [00:2019-01-flights.csv.zip: 82%|███████████████████████████████████████████████████████████████████████████████████████████▍ | 6.47M/7.93M [00:2019-01-flights.csv.zip: 84%|█████████████████████████████████████████████████████████████████████████████████████████████▉ | 6.65M/7.93M [00:2019-01-flights.csv.zip: 86%|████████████████████████████████████████████████████████████████████████████████████████████████▋ | 6.85M/7.93M [00:2019-01-flights.csv.zip: 88%|██████████████████████████████████████████████████████████████████████████████████████████████████▌ | 6.98M/7.93M [00:2019-01-flights.csv.zip: 90%|█████████████████████████████████████████████████████████████████████████████████████████████████████ | 7.16M/7.93M [00:2019-01-flights.csv.zip: 92%|██████████████████████████████████████████████████████████████████████████████████████████████████████▉ | 7.29M/7.93M [00:2019-01-flights.csv.zip: 94%|█████████████████████████████████████████████████████████████████████████████████████████████████████████▋ | 7.49M/7.93M [00:2019-01-flights.csv.zip: 97%|████████████████████████████████████████████████████████████████████████████████████████████████████████████▊ | 7.70M/7.93M [00:2019-01-flights.csv.zip: 99%|██████████████████████████████████████████████████████████████████████████████████████████████████████████████▊ | 7.85M/7.93M [00: Info: Adding these files to Git LFS:

data/flight-data/2019-01-flights.csv.zip

To disable this message in the future, run:

renku config set show\_lfs\_message false

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku dataset ls

ID SLUG NAME VERSION DATADIR STORAGE

-------------------------------- ----------- ------------------ --------- ---------------- ---------

eda5458643ab4aaf909fe76650f9da0d flight-data 2019-01 US Flights 1.0 data/flight-data

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ git log

commit f734a7c4f023609de3ef5598b5da02f26282d417 (HEAD -> master)

Author: M. A <ahmetvemert@gmail.com>

Date: Tue Jun 4 11:48:51 2024 +0000

renku dataset import --name flight-data https://www.doi.org/10.7910/DVN/WTZS4K

renku-transaction: 05eeb80a6ab94deab98353eda12526c2

commit b3c4209f6272b1cecce7525689ecdeb2ae35669d (origin/master)

Author: M. A <ahmetvemert@gmail.com>

Date: Tue Jun 4 11:36:36 2024 +0000

renkulab.io: init Flights Tutorial2

renku-transaction: 2597142697d64d799917c7bd48475a27

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ git status

On branch master

Your branch is ahead of 'origin/master' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ git push

Locking support detected on remote "origin". Consider enabling it with:

$ git config lfs.https://gitlab.renkulab.io/ahmetvemert/flights-tutorial2.git/info/lfs.locksverify true

Uploading LFS objects: 0% (0/1), 0 B | 0 B/s Uploading LFS objects: 0% (0/1), 0 B | 0 B/s Uploading LFS objects: 0% (0/1), 33 KB | 0 B/s Uploading LFS objects: 100% (1/1), 7.9 MB | 0 B/s Uploading LFS objects: 100% (1/1), 7.9 MB | 0 B/s Uploading LFS objects: 100% (1/1), 7.9 MB | 0 B/s, done.

Enumerating objects: 27, done.

Counting objects: 100% (27/27), done.

Delta compression using up to 8 threads

Compressing objects: 100% (17/17), done.

Writing objects: 100% (20/20), 3.82 KiB | 782.00 KiB/s, done.

Total 20 (delta 5), reused 0 (delta 0), pack-reused 0

To https://gitlab.renkulab.io/ahmetvemert/flights-tutorial2.git

b3c4209..f734a7c master -> master

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ pip install -r requirements.pip install -r requirements.txt

Collecting pandas==2.2.2 (from -r requirements.txt (line 1))

Downloading pandas-2.2.2-cp310-cp310-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl.metadata (19 kB)

Collecting numpy>=1.22.4 (from pandas==2.2.2->-r requirements.txt (line 1))

Downloading numpy-1.26.4-cp310-cp310-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl.metadata (61 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 61.0/61.0 kB 542.3 kB/s eta 0:00:00

Requirement already satisfied: python-dateutil>=2.8.2 in /opt/conda/lib/python3.10/site-packages (from pandas==2.2.2->-r requirements.txt (line 1)) (2.8.2)

Requirement already satisfied: pytz>=2020.1 in /opt/conda/lib/python3.10/site-packages (from pandas==2.2.2->-r requirements.txt (line 1)) (2023.3)

Collecting tzdata>=2022.7 (from pandas==2.2.2->-r requirements.txt (line 1))

Downloading tzdata-2024.1-py2.py3-none-any.whl.metadata (1.4 kB)

Requirement already satisfied: six>=1.5 in /opt/conda/lib/python3.10/site-packages (from python-dateutil>=2.8.2->pandas==2.2.2->-r requirements.txt (line 1)) (1.16.0)

Downloading pandas-2.2.2-cp310-cp310-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl (13.0 MB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 13.0/13.0 MB 26.8 MB/s eta 0:00:00

Downloading numpy-1.26.4-cp310-cp310-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.whl (18.2 MB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 18.2/18.2 MB 34.3 MB/s eta 0:00:00

Downloading tzdata-2024.1-py2.py3-none-any.whl (345 kB)

━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 345.4/345.4 kB 3.2 MB/s eta 0:00:00

Installing collected packages: tzdata, numpy, pandas

Successfully installed numpy-1.26.4 pandas-2.2.2 tzdata-2024.1

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✎ ▶ $ ▶ renku save -m 'updated renku save -m 'updated packages'

Successfully saved to remote branch master:

requirements.txt

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku save -m "saving the new notebook"

Successfully saved to remote branch master:

notebooks/mynotebook.ipynb

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ track everything inside the notebooks folder

git add notebooks

git commit -m "Added some notebooks"

git push

bash: track: command not found

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Everything up-to-date

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ git add notebooks

git commit -m "Added some notebooks"

git push

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Everything up-to-date

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ gıt log

bash: gıt: command not found

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ gıt ınıt

bash: gıt: command not found

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ gıt

bash: gıt: command not found

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ git

usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]

[--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]

[-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]

[--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]

[--super-prefix=<path>] [--config-env=<name>=<envvar>]

<command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)

clone Clone a repository into a new directory

init Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)

add Add file contents to the index

mv Move or rename a file, a directory, or a symlink

restore Restore working tree files

rm Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)

bisect Use binary search to find the commit that introduced a bug

diff Show changes between commits, commit and working tree, etc

grep Print lines matching a pattern

log Show commit logs

show Show various types of objects

status Show the working tree status

grow, mark and tweak your common history

branch List, create, or delete branches

commit Record changes to the repository

merge Join two or more development histories together

rebase Reapply commits on top of another base tip

reset Reset current HEAD to the specified state

switch Switch branches

tag Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)

fetch Download objects and refs from another repository

pull Fetch from and integrate with another repository or a local branch

push Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some

concept guides. See 'git help <command>' or 'git help <concept>'

to read about a specific subcommand or concept.

See 'git help git' for an overview of the system.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ git log

commit 3747136ff98ca0e7cb591f102077e0892526a6e4 (HEAD -> master, origin/master)

Author: M. A <ahmetvemert@gmail.com>

Date: Tue Jun 4 12:00:23 2024 +0000

saving the new notebook

commit 5ac1b2e210fbfe879b6d82cbece2c273a54217e2

Author: M. A <ahmetvemert@gmail.com>

Date: Tue Jun 4 11:51:21 2024 +0000

updated packages

commit f734a7c4f023609de3ef5598b5da02f26282d417

Author: M. A <ahmetvemert@gmail.com>

Date: Tue Jun 4 11:48:51 2024 +0000

renku dataset import --name flight-data https://www.doi.org/10.7910/DVN/WTZS4K

renku-transaction: 05eeb80a6ab94deab98353eda12526c2

commit b3c4209f6272b1cecce7525689ecdeb2ae35669d

Author: M. A <ahmetvemert@gmail.com>

Date: Tue Jun 4 11:36:36 2024 +0000

renkulab.io: init Flights Tutorial2

renku-transaction: 2597142697d64d799917c7bd48475a27

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ git log

commit 3747136ff98ca0e7cb591f102077e0892526a6e4 (HEAD -> master, origin/master)

Author: M. A <ahmetvemert@gmail.com>

Date: Tue Jun 4 12:00:23 2024 +0000

saving the new notebook

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Author: M. A <ahmetvemert@gmail.com>

Date: Tue Jun 4 11:51:21 2024 +0000

updated packages

commit f734a7c4f023609de3ef5598b5da02f26282d417

Author: M. A <ahmetvemert@gmail.com>

Date: Tue Jun 4 11:48:51 2024 +0000

renku dataset import --name flight-data https://www.doi.org/10.7910/DVN/WTZS4K

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commit b3c4209f6272b1cecce7525689ecdeb2ae35669d

Author: M. A <ahmetvemert@gmail.com>

Date: Tue Jun 4 11:36:36 2024 +0000

renkulab.io: init Flights Tutorial2

renku-transaction: 2597142697d64d799917c7bd48475a27

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ git status

On branch master

Your branch is up to date with 'origin/master'.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: notebooks/mynotebook.ipynb

Untracked files:

(use "git add <file>..." to include in what will be committed)

notebooks/FilterFlights.ipynb

src/

no changes added to commit (use "git add" and/or "git commit -a")

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✎ ▶ 2+ ▶ $ ▶ git checkout .

git clean -fd

Updated 1 path from the index

Removing .renku/pointers/

Removing notebooks/FilterFlights.ipynb

Removing src/filter\_flights.py

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ git status

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ mkdir -p data/output

renku run --name filter-flights -- python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv

python: can't open file '/home/jovyan/work/flights-tutorial2/src/filter\_flights.py': [Errno 2] No such file or directory

Error: Command returned non-zero exit status 2.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ mkdir -p data/output

renku run --name filter-flights -- python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv

python: can't open file '/home/jovyan/work/flights-tutorial2/src/filter\_flights.py': [Errno 2] No such file or directory

Error: Command returned non-zero exit status 2.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ mkdir -p data/output

renku run --name filter-flights -- python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv

Error: The repository is dirty. Please use the "git" command to clean it.

On branch master

Your branch is up to date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

src/

nothing added to commit but untracked files present (use "git add" to track)

Once you have added the untracked files, commit them with "git commit".

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1+ ▶ $ ▶ git commit

On branch master

Your branch is up to date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

src/

nothing added to commit but untracked files present (use "git add" to track)

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1+ ▶ $ ▶ mkdir -p data/output

renku run --name filter-flights -- python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv

Error: The repository is dirty. Please use the "git" command to clean it.

On branch master

Your branch is up to date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

src/

nothing added to commit but untracked files present (use "git add" to track)

Once you have added the untracked files, commit them with "git commit".

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1+ ▶ $ ▶ git checkout

Your branch is up to date with 'origin/master'.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1+ ▶ $ ▶ git status

On branch master

Your branch is up to date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

src/

nothing added to commit but untracked files present (use "git add" to track)

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1+ ▶ $ ▶ mkdir -p data/output

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On branch master

Your branch is up to date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

src/

nothing added to commit but untracked files present (use "git add" to track)

Once you have added the untracked files, commit them with "git commit".

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1+ ▶ $ ▶ git add src/filter\_flights.py

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ mkdir -p data/output

renku run --name filter-flights -- python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv

Error: The repository is dirty. Please use the "git" command to clean it.

On branch master

Your branch is up to date with 'origin/master'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: src/filter\_flights.py

Once you have added the untracked files, commit them with "git commit".

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ ls

data Dockerfile environment.yml notebooks README.md requirements.txt src workflows

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ ls data/output

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ git status

On branch master

Your branch is up to date with 'origin/master'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: src/filter\_flights.py

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ vi src/

filter\_flights.py .ipynb\_checkpoints/

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ vi src/

filter\_flights.py .ipynb\_checkpoints/

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ vi src/filter\_flights.py

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ git add src/filter\_flights.py

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ git add src/filter\_flights.py^C

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ ^C

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ ^C

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ ^C

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ ^C

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ renku run --name filter-flights -- python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv

Error: The repository is dirty. Please use the "git" command to clean it.

On branch master

Your branch is up to date with 'origin/master'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: src/filter\_flights.py

Once you have added the untracked files, commit them with "git commit".

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ ls data

flight-data output

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ git status

On branch master

Your branch is up to date with 'origin/master'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: src/filter\_flights.py

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ git commıt -m "commit changes"

git: 'commıt' is not a git command. See 'git --help'.

The most similar command is

commit

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✔ ▶ $ ▶ git commit -m "commit changes"

DeprecationWarning: The command 'check-lfs-hook' is deprecated.

[master 344c3f3] commit changes

1 file changed, 26 insertions(+)

create mode 100644 src/filter\_flights.py

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku run --name filter-flights -- python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv

Info: Adding these files to Git LFS:

data/output/flights-filtered.csv

To disable this message in the future, run:

renku config set show\_lfs\_message false

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 2⬆ ▶ $ ▶ ls

data Dockerfile environment.yml notebooks README.md requirements.txt src workflows

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 2⬆ ▶ $ ▶ renku save -m 'added the script to count flights'

Successfully saved to remote branch master:

src/count\_flights.py

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ git status

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku run --name count-flights -- python src/count\_flights.py data/output/flights-filtered.csv data/output/flights-count.txt

File "/home/jovyan/work/flights-tutorial2/src/count\_flights.py", line 1

<!DOCTYPE html>

^

SyntaxError: invalid syntax

Error: Command returned non-zero exit status 1.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku run --name count-flights -- python src/count\_flights.py data/output/flights-filtered.csv data/output/flights-count.txt

There were 23078 flights to Austin, TX in Jan 2019.

renku save

File "/home/jovyan/work/flights-tutorial2/src/count\_flights.py", line 1

<!DOCTYPE html>

^

SyntaxError: invalid syntax

Error: Command returned non-zero exit status 1.

bash: There: command not found

Successfully saved to remote branch master.

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku run

Usage: renku run [OPTIONS] <COMMAND> or <WORKFLOW FILE>

Try 'renku run -h' for help.

Error: Missing argument '<COMMAND> or <WORKFLOW FILE>'.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku run --name count-flights -- python src/count\_flights.py data/output/flights-filtered.csv data/output/flights-count.txt

There were 23078 flights to Austin, TX in Jan 2019.

renku save

File "/home/jovyan/work/flights-tutorial2/src/count\_flights.py", line 1

<!DOCTYPE html>

^

SyntaxError: invalid syntax

Error: Command returned non-zero exit status 1.

bash: There: command not found

Successfully saved to remote branch master.

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku run --name count-flights -- python src/count\_flights.py data/output/flights-filtered.csv data/output/flights-count.txt

File "/home/jovyan/work/flights-tutorial2/src/count\_flights.py", line 1

<!DOCTYPE html>

^

SyntaxError: invalid syntax

Error: Command returned non-zero exit status 1.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ git status

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku run --name count-flights -- python src/count\_flights.py data/output/flights-filtered.csv data/output/flights-count.txt

File "/home/jovyan/work/flights-tutorial2/src/count\_flights.py", line 1

<!DOCTYPE html>

^

SyntaxError: invalid syntax

Error: Command returned non-zero exit status 1.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku save

Successfully saved to remote branch master:

src/count\_flights.py

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku run --name count-flights -- python src/count\_flights.py data/output/flights-filtered.csv data/output/flights-count.txt

There were 23078 flights to Austin, TX in Jan 2019.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ python src/count\_flights.py data/output/flights-filtered.csv data/output/flights-count.txt

There were 23078 flights to Austin, TX in Jan 2019.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku

data/ environment.yml .gitignore notebooks/ .renkulfsignore src/

Dockerfile .git/ .gitlab-ci.yml README.md .renku.lock workflows/

.dockerignore .gitattributes .ipynb\_checkpoints/ .renku/ requirements.txt

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku help

Usage: renku [OPTIONS] COMMAND [ARGS]...

Check common Renku commands used in various situations.

Options:

--version Print version number.

Args: ctx: Current click context.

param: Not used. value: Not used.

--global-config-path Print global application's config path.

--path <path> Location of a Renku repository. [default:

(dynamic)]

--external-storage / -S, --no-external-storage

Use an external file storage service.

-h, --help Show this message and exit.

Commands:

clone Clone a Renku repository.

config Interact with renku configuration.

dataset Dataset commands.

doctor Check your system and repository for potential problems.

env Renku environment commands.

gc Cache and temporary files cleanup.

githooks Manage Git hooks for Renku repository.

graph Graph commands.

help Show help message and exit.

init Initialize a project in PATH.

lfs Manage lfs.

log Show a history of renku workflow and dataset commands.

login Log in to the platform.

logout Logout from the platform and delete credentials.

mergetool Mergetool commands.

migrate Check for migration and migrate to the latest Renku project...

mv Move files and check repository for potential problems.

project Project commands.

rerun Recreate files generated by a sequence of ``run`` commands.

rm Remove files and check repository for potential problems.

rollback Rollback project to a previous point in time.

run Tracking work on a specific problem.

save Save and push local changes.

service Manage service components.

session Session commands.

status Show a status of the repository.

storage Manage storage.

template Template commands.

update Update existing files by rerunning their outdated workflow.

workflow Workflow commands.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku workflow help

Usage: renku workflow [OPTIONS] COMMAND [ARGS]...

Try 'renku workflow -h' for help.

Error: No such command 'help'.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku workflow

Usage: renku workflow [OPTIONS] COMMAND [ARGS]...

Workflow commands.

Options:

-h, --help Show this message and exit.

Commands:

compose Create a composite workflow consisting of multiple steps.

edit Edit workflow details.

execute Execute a given workflow.

export Export workflow.

inputs Show all inputs used by workflows.

iterate Execute a workflow by iterating through a range of provided...

ls List or manage workflows with subcommands.

outputs Show all outputs generated by workflows.

remove Remove a workflow named <name>.

revert Revert activity metadata and generations.

show Show details for workflow <name\_or\_id\_or\_path>.

visualize Visualization of workflows that produced outputs at the...

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku workflow ls

ID NAME COMMAND

--------------------------------------- -------------- ------------------------------------------------------------------------------------------------------

/plans/295a0f64dcc64f3eb3d8f1dfa6a29e87 filter-flights python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv

/plans/709a2ee7d5014cbc8e4375be696de908 count-flights python src/count\_flights.py data/output/flights-filtered.csv data/output/flights-count.txt

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku workflow visualize

┌─────────────────────┐ ┌────────────────────────────────────────┐

│src/filter\_flights.py│ │data/flight-data/2019-01-flights.csv.zip│

└─────────────────────┘ └────────────────────────────────────────┘

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║python src/filter\_flights.py...║

╚═══════════════════════════════╝

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┌────────────────────┐ ┌────────────────────────────────┐

│src/count\_flights.py│ │data/output/flights-filtered.csv│

└────────────────────┘ └────────────────────────────────┘

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║python src/count\_flights.py...║

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│data/output/flights-count.txt│

└─────────────────────────────┘

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku save

Successfully saved to remote branch master.

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ df = df[df['DEST'] == 'DFW']

df: '=': No such file or directory

df: 'df[df[DEST]': No such file or directory

df: '==': No such file or directory

df: DFW]: No such file or directory

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ GİT STATUS

bash: GİT: command not found

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✎ ▶ $ ▶ git status

On branch master

Your branch is up to date with 'origin/master'.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: notebooks/mynotebook.ipynb

no changes added to commit (use "git add" and/or "git commit -a")

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✎ ▶ $ ▶ git status

On branch master

Your branch is up to date with 'origin/master'.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: notebooks/mynotebook.ipynb

no changes added to commit (use "git add" and/or "git commit -a")

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1✎ ▶ $ ▶ git status

On branch master

Your branch is up to date with 'origin/master'.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

modified: notebooks/mynotebook.ipynb

modified: src/filter\_flights.py

no changes added to commit (use "git add" and/or "git commit -a")

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 2✎ ▶ $ ▶ renku save -m 'fix filter error'

Successfully saved to remote branch master:

notebooks/mynotebook.ipynb

src/filter\_flights.py

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku status

Outdated outputs(2):

(use `renku workflow visualize [<file>...]` to see the full lineage)

(use `renku update --all` to generate the file from its latest inputs)

data/output/flights-count.txt: src/filter\_flights.py

data/output/flights-filtered.csv: src/filter\_flights.py

Modified inputs(1):

src/filter\_flights.py

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku update --all

Workflow Progress 100%|████████████████████████████████████████████████████████████████████████████████████████████████████████████████| 1/1 (0 failures) [00:05<00:00, 0.22 jobs/s]

Moving outputs [ ] 2/2

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku update --all

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku save

Successfully saved to remote branch master.

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku update --all

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku update --all

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku save

Successfully saved to remote branch master.

OK

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ name: flights-processing-pipeline

steps:

filter:

command: python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv

inputs:

- src/filter\_flights.py

- data/flight-data/2019-01-flights.csv.zip

outputs:

- data/output/flights-filtered.csv

bash: name:: command not found

bash: steps:: command not found

bash: filter:: command not found

bash: command:: command not found

bash: inputs:: command not found

bash: -: command not found

bash: -: command not found

bash: outputs:: command not found

bash: -: command not found

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ $ ▶ renku run workflow.yml

Error: Invalid parameter value - [Errno 2] No such file or directory: 'workflow.yml'

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1+ ▶ $ ▶ renku run workflow.yml

Executing step 'flights-processing-pipeline.filter': 'python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv' ...

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 1⬆ ▶ $ ▶ renku run workflow.yml filter count

Executing step 'flights-processing-pipeline.filter': 'python src/filter\_flights.py data/flight-data/2019-01-flights.csv.zip data/output/flights-filtered.csv' ...

Executing step 'flights-processing-pipeline.count': 'python src/count\_flights.py data/output/flights-filtered.csv data/output/flights-count.csv' ...

There were 4951 flights to Austin, TX in Jan 2019.

base ▶ ~ ▶ work ❯ flights-tutorial2 ▶ master ▶ 2⬆ ▶ $ ▶