

Welcome to The Carpentries Etherpad!

This pad is synchronized as you type, so that everyone viewing this page sees the same text. This allows you to collaborate seamlessly on documents.

Use of this service is restricted to members of The Carpentries community; this is not for general purpose use (for that, try <https://etherpad.wikimedia.org>).

Users are expected to follow our code of conduct: https://docs.carpentries.org/topic_folders/policies/code-of-conduct.html

All content is publicly available under the Creative Commons Attribution License:
<https://creativecommons.org/licenses/by/4.0/>

This etherpad is used for the Workshop Data skills for genomics organized by the UvA Library on 30 November and 1 December 2021.

Workshop
<https://waydeveldman.github.io/2021-11-30-uva-online/>

Link to Google Slide with AMI accounts: https://docs.google.com/spreadsheets/d/1XbmULA-5vjsUQE_c_H5NCx49DQQgLka6uK1B23gDEjUE/edit#gid=0

From there, please choose a line between 15 to 44
and put your name in the column B

Hello
Hi!
Hi everyone!
Hello !
Hello!
Hi all!
hello!
Hiiii :)
Hi
Hello :)

Episode 1:
Data tidiness
<https://datacarpentry.org/organization-genomics/01-tidiness/index.html>

OpenRefine:
<https://datacarpentry.org/OpenRefine-ecology-lesson/setup.html>
https://www.youtube.com/watch?v=EnzJ_agj5_c

Exercise:

<https://datacarpentry.org/organization-genomics/01-tidiness/index.html#:~:text=kinds>

<https://datacarpentry.org/shell-genomics/01-introduction/index.html>

Planning for NGS Projects

<https://datacarpentry.org/organization-genomics/02-project-planning/index.html>

Exercise

<https://datacarpentry.org/organization-genomics/02-project-planning/index.html#:~:text=How%20are%20these%20samples%20organized>

Examining Data on the NCBI SRA Database

<https://datacarpentry.org/organization-genomics/03-ncbi-sra/index.html>

Seeking help

<https://stackoverflow.com/questions/tagged/bash>

<https://stackoverflow.com/questions/tagged/shell>

<https://stackoverflow.com/help/how-to-ask>

<https://codeblog.jonskeet.uk/2010/08/29/writing-the-perfect-question/>

Accessing terminal of the AMI - Amazon Machine Image

using putty

use git bash

- `ssh username@computer_address`

use R studio terminal

FAIR principles

<https://www.go-fair.org/fair-principles/>

CARE principle

<https://datacarpentry.org/shell-genomics/01-introduction/index.html>

CTRL + L to clear screen

CTRL +C to abort and start over

```
export PS1_backup=$PS1
```

```
export PS1="\n\\w\\n$ "
```

~

home directory/folder
contains
documents
downloads
pictures
desktop
etc.

to list file/folders
ls

Speed check

okay: +++
go-faster: ++
go-slower:

<https://explainshell.com/explain?cmd=ls+-F>

going to home directory
cd
cd ~
cd /home/dcuser

return to the previous directory
cd -

https://en.wikipedia.org/wiki/Pair_programming

<https://datacarpentry.org/shell-genomics/04-redirection/index.html#exercise>

command < input_file.txt > output_file

command < input_file.txt

command > output_file

<https://git-scm.com/>

https://datacarpentry.org/shell-genomics/Extra_lesson/index.html

\$ denotes a variable

a value that may change in time for example the index "i" of the loop can be referred to \$i

wget ftp://ftp.ensemblgenomes.org/pub/release-37/bacteria/species_EnsemblBacteria.txt

scp dcuser@ec2-34-239-151-36.compute-1.amazonaws.com:/home/dcuser/shell_data/untrimmed_fastq/species_EnsemblBacteria.txt ~/Desktop

gzip
gunzip

<https://www.7-zip.org/download.html>

<http://journals.plos.org/ploscompbiol/article?id=10.1371/journal.pcbi.1000424>

<https://explainshell.com/explain?cmd=ls+-F>

Related playlist:

<https://www.youtube.com/playlist?list=PLu7d3po48tBobUSZ3dvFScMBD2oDp-CtQ>

Guide:

<https://tldp.org/guides.html>

Learn UNIX in 10 minutes

<http://copeland.ece.gatech.edu/jac/6612/info/learnUNIXin10minutes.html>

Day 2:

Review of uploading and downloading files

<https://datacarpentry.org/shell-genomics/05-writing-scripts/index.html#transferring-data-between-your-local-machine-and-the-cloud>

https://docs.google.com/spreadsheets/d/1XbmULA-5vjsUQE_c_H5NCx49DQQgLka6uK1B23gDEjUE/edit#gid=0