

Welcome to USQ Software Carpentry with Unix and Python 2019 Workshop Etherpad!

INTRODUCE YOURSELF AND INTERACT HERE:

Welcome, my name is *Francis Gacenga* my day job is *getting technologies and the people behind them to work together for research*. Follow me on twitter @fgacenga and @USQ_eResearch for all things eResearch. **Your participation and active interaction will greatly improve everyone's workshop outcomes.** At this workshop facilitating the **Unix, and Python** is a host of awesome instructors and helpers including *Anita Frederiks, Richard Young, Adam Sparks, Paul Melloy, Mathieu Clerte, Dag Evensberget, Edan Scriven*.

INTRODUCE YOURSELF :-)

Hi. My name is a Tim Webb. I am a researcher in the Biomedical Sciences.

Hi I am Doug I am a helper and Python instructor today.

Hi all! I'm Aimee - I've just finished my PhD in immunology and genetics (immunogenetics if you will) at UQ. (twitter: @DrAimeeLee)

Hi, Mathieu here, software engineer at USQ ICT also working with Research , helper today ! - twitter @t0t4r4

Hi All, I'm Anita, one of the helpers today, I am one of the Maths Learning Advisors found in USQ Library. (Twitter: @AnitaFrederiks)

Hi All, My name is Fakrul, I'm working as a Network Engineer at USQ, Toowoomba Campus.

Hi everyone. My name is Andrii. I am a postdoc at UQ doing research in virology. My twitter is @elephass

Hi all, I'm George. I'm a network engineer at USQ based in Springfield.

Hi I'm Jeffrey from USQ

Hello, I'm Gaofeng from UQ based at Brisbane, my twitter is @gaofengni

Hi there, I'm Gabriel from UQ at Brisbane. Twitter: @CapsonTojo. Nice to meet you all !

Hi I am Kabir from USQ. I am a researcher in Health Economics. Nice to meet you all.

Hello all, I am Sunny from USQ

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 Software Carpentry and Data Carpentry community; this is not for general purpose use (for that, try etherpad.wikimedia.org).

Users are expected to follow our code of conduct: <http://software-carpentry.org/conduct.html>

Please complete the pre-workshop survey: https://www.surveymonkey.com/r/swc_pre_workshop_v1?workshop_id=2019-10-02-usq

Software Carpentry USQ workshop

<https://fgacenga.github.io/2019-10-02-usq/>

Interaction - Please interact throughout the workshop

Hashtag for the workshop:

#usq_sw

Pre-Course Section

Please ensure you have done the following prior to the course

Eduroam Wi-Fi

Connecting a Windows 7 laptop: [https://usq.saasitau.com/Default.aspx?](https://usq.saasitau.com/Default.aspx?ProviderName=UAUTH_USQ_SSO&Scope=SelfService&CommandId=Open&Tab=Knowledge&ItemId=74E6531D1343485985C88695CB85EC6C)

[ProviderName=UAUTH_USQ_SSO&Scope=SelfService&CommandId=Open&Tab=Knowledge&ItemId=74E6531D1343485985C88695CB85EC6C](https://usq.saasitau.com/Default.aspx?ProviderName=UAUTH_USQ_SSO&Scope=SelfService&CommandId=Open&Tab=Knowledge&ItemId=74E6531D1343485985C88695CB85EC6C)

Changing a password on Windows 10 devices - [https://usq.saasitau.com/Default.aspx?](https://usq.saasitau.com/Default.aspx?ProviderName=UAUTH_USQ_SSO&Scope=SelfService&CommandId=Open&Tab=Knowledge&ItemId=2D81C3823D2F4B9FB79F507EEE52FCAB)

[ProviderName=UAUTH_USQ_SSO&Scope=SelfService&CommandId=Open&Tab=Knowledge&ItemId=2D81C3823D2F4B9FB79F507EEE52FCAB](https://usq.saasitau.com/Default.aspx?ProviderName=UAUTH_USQ_SSO&Scope=SelfService&CommandId=Open&Tab=Knowledge&ItemId=2D81C3823D2F4B9FB79F507EEE52FCAB)

Linux - Connecting to USQ Wi-fi (Eduroam) - [https://usq.saasitau.com/Default.aspx?](https://usq.saasitau.com/Default.aspx?ProviderName=UAUTH_USQ_SSO&Scope=SelfService&CommandId=Open&Tab=Knowledge&ItemId=93E2EF996AA54D52A16D1E1151D8FD2C)

[ProviderName=UAUTH_USQ_SSO&Scope=SelfService&CommandId=Open&Tab=Knowledge&ItemId=93E2EF996AA54D52A16D1E1151D8FD2C](https://usq.saasitau.com/Default.aspx?ProviderName=UAUTH_USQ_SSO&Scope=SelfService&CommandId=Open&Tab=Knowledge&ItemId=93E2EF996AA54D52A16D1E1151D8FD2C)

Lessons Data

Unix - (for those using Mac or Linux)

1. Download data-shell.zip
2. <http://swcarpentry.github.io/shell-novice/data/data-shell.zip> and move the file to your Desktop.
3. Unzip/extract the file (ask your instructor if you need help with this step). You should end up with a new folder called **data-shell** on your Desktop.
4. Open a terminal and type cd, then press the Enter key. That last step will make sure you start with your home folder as your working directory.

Day One Unix Session Feedback

Please complete the survey: <https://surveys.usq.edu.au/index.php/962581?lang=en>

Python

1. Download python-novice-inflammation-data <http://swcarpentry.github.io/python-novice-inflammation/data/python-novice-inflammation-data.zip> and python-novice-inflammation-code <http://swcarpentry.github.io/python-novice-inflammation/code/python-novice-inflammation-code.zip>
2. Create a folder called swc-python on your Desktop.
3. Move downloaded files into this newly created folder.
4. Unzip the files. You should now see two new folders called data and code in your swc-python directory on your Desktop.

Day One Python Session Feedback

Please complete the survey: <https://surveys.usq.edu.au/index.php/498932?lang=en>

Workshop VM

Accessing the Workshop Virtual Machine (VM): <https://app.ecocloud.org.au> then use your university username and password or create an account.

Unix

Lesson:

<http://swcarpentry.github.io/shell-novice/>

Super cool online resource! <http://explainshell.com/> will dissect any shell command you type in and display help text for each piece.

Unix Basics (PDF 871KB): <https://www.usq.edu.au/-/media/usq/current-students/academic/research/hpc/unix-basics-2017.ashx?la=en&hash=5123B327754B471DE0C58FE808FC52AE>

Another super cool online resource is <http://www.shellcheck.net>, which will check shell scripts (both uploaded and typed in) I

Python

Lesson:

<http://swcarpentry.github.io/python-novice-gapminder/>

.

Other:

Python 3 Standard Library : <https://docs.python.org/3/library/>

Python Community and Activities: <https://www.reddit.com/r/python>

You may consider installing Python (all-in-one installaton) on your computer - note: install Python 3 <https://www.anaconda.com/>

Day Two Python Session Feedback

Please complete the survey: <https://surveys.usq.edu.au/index.php/557389?lang=en>

Post Workshop Survey: https://www.surveymonkey.com/r/swc_post_workshop_v1?workshop_id=2019-10-02-usq

Use of this service is restricted to members of the Software Carpentry and Data Carpentry community; this is not for general purpose use (for that, try etherpad.wikimedia.org).

Users are expected to follow our code of conduct: <http://software-carpentry.org/conduct.html>

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

Things to do after the workshop to keep learning and progressing:

Attend the reproduce workshop: <https://aas.eventsair.com/reproduce-workshop/>

Regularly attend your instituitons hacky hours: <https://www.qcif.edu.au/index.php/events/hacky-hour>

Register for more training at USQ: <https://www.qcif.edu.au/index.php/events/525-usq-eresearch-services-2019-training-schedule>

Register for more training with QCIF: <https://www.qcif.edu.au/events>

Find a data set to apply your python skills on:
FYI – could be interesting if you need a data set:

<https://www.iqt.org/labs/>

One example is a voices data set, with information here:

<https://voices18.github.io/>

<https://registry.opendata.aws/lab41-sri-voices/>

This data is licensed under these terms, so as long as you acknowledge you're free to do whatever you want:

<https://creativecommons.org/licenses/by/4.0/>

And satellite imagery, with information here:

<https://medium.com/the-downlinq/announcing-solaris-an-open-source-python-library-for-analyzing-overhead-imagery-with-machine-48c1489c29f7>

<https://solaris.readthedocs.io/en/latest/>