

Cloud-SPAN Handbook

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Preface



Figure 1: Cloud-SPAN logo

This is the handbook for University of York Biology Department's Cloud-SPAN project.

Handbook Contents

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Chapter 1

Introduction

1.1 About Cloud-SPAN

Cloud-SPAN deploys high quality learning resources that will train researchers to effectively generate and analyse a range of 'omics data using Cloud computing resources.

Cloud-SPAN is a collaboration between the Department of Biology at the University of York and the Software Sustainability Institute, and funded by the UKRI innovation scholars award. Project Reference: MR/V038680/1

1.2 About this handbook

This handbook is intended as a guide to project ethos...

1.3 Our Team

1.3.1 Project team

Name	Role	% working on the project	Time period allocated to the project	Institution
Emma Rand	Project oversight	20%	2020-22	Uni of York
James Chong	Project oversight	10%	2020-22	Uni of York

Name	Role	% working on the project	Time period allocated to the project	Institution
Jorge Buenabad-Chavez	Content developer and Cloud deliverer	100%	2020-22	Uni of York
Evelyn Greeves	Content developer and FAIR/CoP deliverer	60%	2020-22	Uni of York
Sarah Dowsland	Administrator	50%	2020-22	Uni of York
Annabel Cansdale	Content developer	20%	2020-22	Uni of York
Sarah Forrester	Content developer	20%	2020-22	Uni of York
Neil Chue Hong	Straetgic advisor	10%	2020-22	Software Sustainability Institute

Chapter 2

Code of Conduct

2.1 Preamble

The CloudSPAN team are dedicated to providing a welcoming and supportive environment for all people, regardless of background or identity. As such, we do not tolerate behaviour that is disrespectful to our community members or that excludes, intimidates, or causes discomfort to others. We do not tolerate discrimination or harassment based on characteristics that include, but are not limited to: gender identity and expression, sexual orientation, disability, physical appearance, body size, citizenship, nationality, ethnic or social origin, pregnancy, familial status, veteran status, genetic information, religion or belief (or lack thereof), membership of a national minority, property, age, education, socio-economic status, technical choices, and experience level.

Everyone who participates in CloudSPAN project activities is required to conform to this Code of Conduct. This Code of Conduct applies to all spaces managed by the CloudSPAN project including, but not limited to, in person focus groups and workshops, and communications online via GitHub. By participating, contributors indicate their acceptance of the procedures by which the project core development team resolves any Code of Conduct incidents, which may include storage and processing of their personal information.

2.2 Our Code of Conduct

We are confident that our community members will together build a supportive and collaborative atmosphere at our events and during online communications. The following bullet points set out explicitly what we hope you will consider to be appropriate community guidelines:

- **Be respectful of different viewpoints and experiences.** Do not engage in homophobic, racist, transphobic, ageist, ableist, sexist, or otherwise exclusionary behaviour.
- **Use welcoming and inclusive language.** Exclusionary comments or jokes, threats or violent language are not acceptable. Do not address others in an angry, intimidating, or demeaning manner. Be considerate of the ways the words you choose may impact others. Be patient and respectful of the fact that English is a second (or third or fourth!) language for some participants.
- **Do not harass people.** Harassment includes unwanted physical contact, sexual attention, or repeated social contact (see below for an extended list of behaviours we consider to be harassment). Know that consent is explicit, conscious and continuous—not implied. If you are unsure whether your behaviour towards another person is welcome, ask them. If someone tells you to stop, do so.
- **Respect the privacy and safety of others.** Do not take photographs of others without their permission. Do not share other participant’s personal experiences without their express permission. Note that posting (or threatening to post) personally identifying information of others without their consent (“doxing”) is a form of harassment.
- **Be considerate of others’ participation.** Everyone should have an opportunity to be heard. In update sessions, please keep comments succinct so as to allow maximum engagement by all participants. Do not interrupt others on the basis of disagreement; hold such comments until they have finished speaking.
- **Don’t be a bystander.** If you see something inappropriate happening, speak up. If you don’t feel comfortable intervening but feel someone should, please feel free to ask a member of the Code of Conduct response team for support.
- As an overriding general rule, **please be intentional in your actions and humble in your mistakes.**

All interactions should be professional regardless of platform: either online or in-person. See this explanation of the four social rules - no feigning surprise, no well-actually’s, no back-seat driving, no subtle -isms - for further recommendations for inclusive behaviours.

2.2.1 Unacceptable Behaviour

Examples of unacceptable behaviour by community members at any project event or platform include:

- written or verbal comments which have the effect of excluding people on the basis of membership of any specific group
- causing someone to fear for their safety, such as through stalking, following, or intimidation
- violent threats or language directed against another person
- the display of sexual or violent images
- unwelcome sexual attention
- nonconsensual or unwelcome physical contact
- sustained disruption of talks, events or communications
- insults or put downs
- sexist, racist, homophobic, transphobic, ableist, or exclusionary jokes
- excessive swearing
- incitement to violence, suicide, or self-harm
- continuing to initiate interaction (including photography or recording) with someone after being asked to stop
- publication of private communication without consent

CloudSPAN prioritizes marginalized people’s safety over privileged people’s comfort. We will not act on complaints regarding:

- ‘Reverse’ -isms, including ‘reverse racism,’ ‘reverse sexism,’ and ‘cisphobia’.
- Reasonable communication of boundaries, such as “leave me alone,” “go away,” or “I’m not discussing this with you.”
- Communicating in a ‘tone’ you don’t find congenial.
- Criticism of racist, sexist, cissexist, or otherwise oppressive behavior or assumptions.

2.3 Acknowledgements

This Code was adapted from the Turing Way Code of Conduct, which itself draws from the Carpentries and Alan Turing Institute Data Study Group codes of conduct. Both are licensed for reuse under a CC BY 4.0 CA license.

Material was additionally drawn from the R Community Diversity, Equity, and Inclusion Working Group, also licensed under CC BY 4.0 CA.

Chapter 3

The Cloud-SPAN community

Under construction

Our aim is to build a friendly and involved community of people who have used our resources, are interested in our resources, or who have expertise in the areas we cover.

That means that whether you are...

an expert in 'omics analyses
a complete newbie at 'omics
not entirely sure what an “omic” is
an experienced Cloud user
a little bewildered by the Cloud

...then the Cloud-SPAN community is for you!

There are lots of ways to contribute and we welcome all of them! Contributing, and joining our community, doesn't have to mean writing technical code.

Here are some ideas of ways you can contribute:

3.1 Ways to contribute

Learn

- Attend or work through our Foundations in Genomics course.
- Ask questions on our community forum.

Connect

- Join our *Community of Practice*.

Help

- Answer questions on our community forum.
- Tell us about bugs or problems you encounter in the course.

Expand

- Suggest new/different software tools for analysis.
- Contribute new examples.
- Attend one of our 'Train the Trainer' courses so you can take parts of the course back to teach at your home institution.

3.2 Using GitHub to contribute

We use GitHub as a tool for managing version control (AKA keeping a record of the project's development). This helps us stay accountable and transparent. It's also one of the ways we are making steps towards adhering to the FAIR Principles.

If you want to contribute any content such as an update to the course or a new example then via GitHub is the best place to get in contact. For lots more guidance about how to contribute via GitHub, read our GitHub Contribution Guide.

Git (the programming language underlying Github) and Github can be a little intimidating at first but don't worry, the team are here to hold your hand!

Chapter 4

FAIR Principles

4.1 What is FAIR data?

FAIR data is **F**indable, **A**ccessible, **I**nteroperable and **R**eusable.

These principles are designed to help both humans and machines find and reuse data as easily as possible. They are aspirational but tangible steps can be made towards realising them.

You can read about the ethical values underlying the FAIR principles via the FAIR Cookbook [here](#).

Findable

Findable is all about making sure data/resources are as easy to find as possible.

How we're making resources **findable** at Cloud-SPAN:

- We will be assigning persistent identifiers to our teaching materials to prevent “link rot”, or broken links.
- We will register our teaching materials with an appropriate registry (e.g. Carpentries Incubator), so they are easier to find.
- We will be describing all our resources with rich metadata so they can be aggregated by the right registries.

Accessible

Accessible means it is easy to find out how to access the data/resources.

How we're making resources **accessible** at Cloud-SPAN:

- Our resources will be openly available, with no caveats, for use by those who cannot attend our workshops or who prefer self-led study.

Interoperable

Interoperable means data/resources can be easily integrated with other data/resources, and be viewable in different programs, applications or workflows.

How we're making resources **interoperable** at CLOUD-SPAN:

- We will supply data which is readable across different programs
- We are providing resources in Markdown, meaning they should display in most browsers.

Reusable

Reusable is about making sure that data/resources are suitable for re-use in different settings.

How we're making resources **reusable** at CLOUD-SPAN:

- We will be applying Creative Commons licenses to our resources so they can be reused and remixed by others.
- We welcome (and encourage!) outside contributions of explanations and examples - see the Ways to contribute for more information.