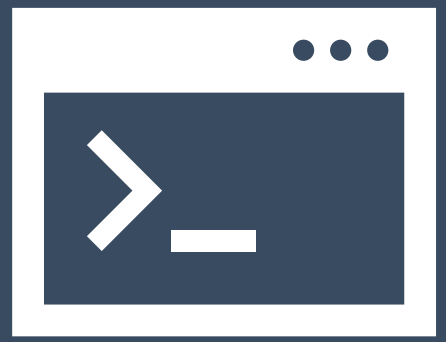
HBC
Harvard Chan Bioinformatics Core

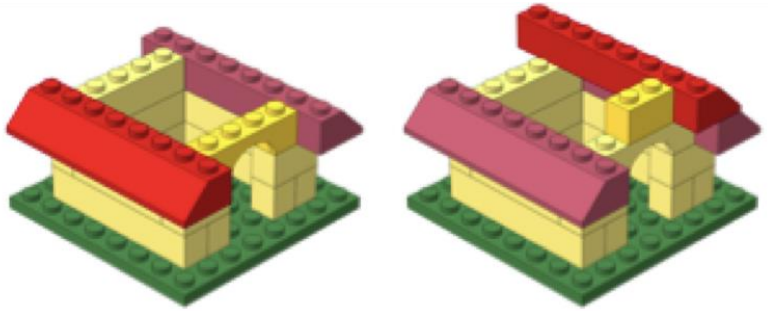
Introduction to Variant Calling

https://tinyurl.com/Intro-to-variant-analysis



Harvard Chan Bioinformatics Core

Learning Objectives

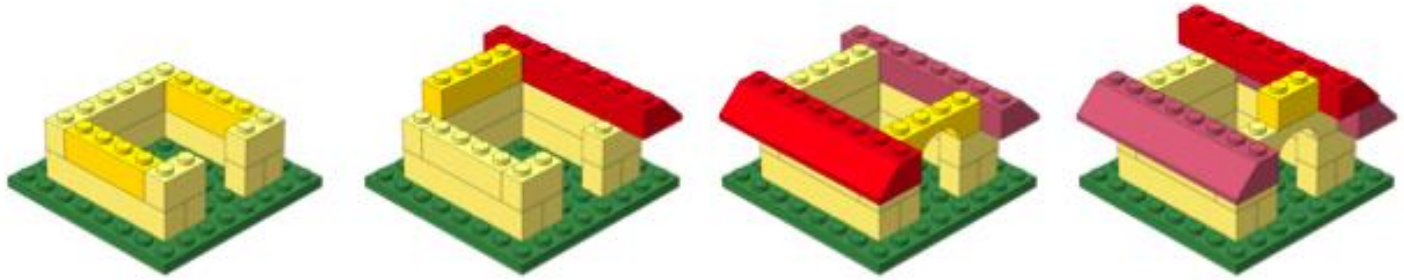


- Evaluate QC metrics for variant calling
- Call variants using GATK
- Filter variants to retain only high-quality variant calls
- Annotate variants using SnpEff and dbSNP
- Prioritize variants by their impact
- Visualize variants in IGV
- Implement cBioPortal to analyze variants

Exit survey

https://tinyurl.com/hbc-varcalling-exit-survey

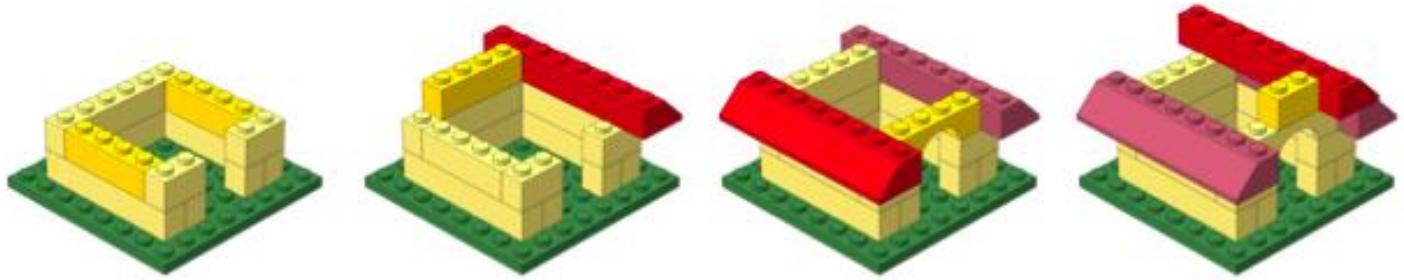
Keep building!



Topic	Category	Date	Duration	Prerequisites
Introduction to R	Basic	October 8, 11, 15, 18	Four 2h sessions	None
Peak analysis	Advanced	October 25, 29, November 1	Three 2.5h sessions	R
Introduction to SingleCell RNA-seq	Advanced	November 12, 15, 19	Three 2.5h sessions	R
Pseudobulk	Advanced	December 3, 6, 10	Three 2.5h sessions	R

https://bioinformatics.sph.harvard.edu/upcoming-workshops

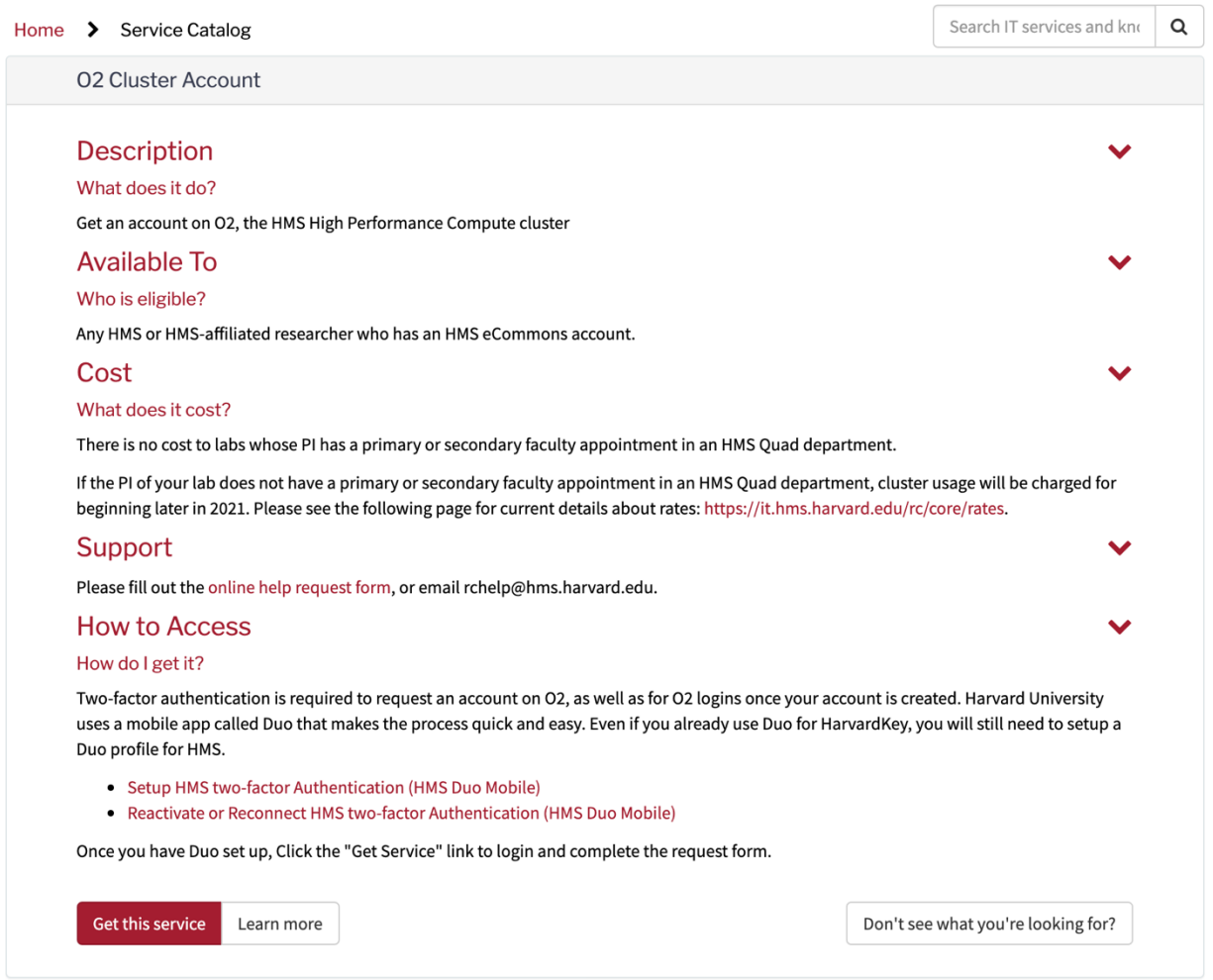
Keep building!



Topic	Pre-requisites	Date/Time	Time	Registration
scRNA pre-processing	R basics	10/16/24	1 – 4pm	Register!
GitHub Part I	TBD	11/20/24	1 – 4pm	Coming Soon!
GitHub Part II	TBD	12/11/24	1 – 4pm	Coming Soon!

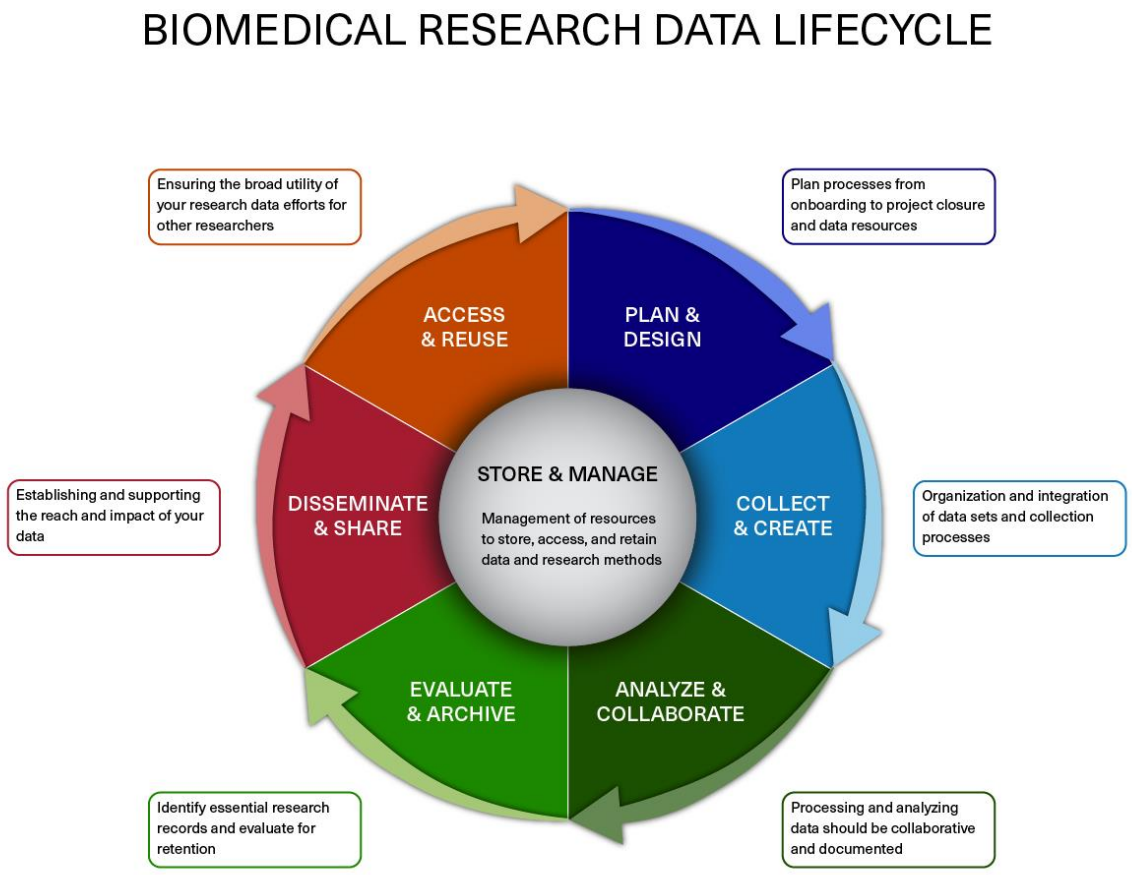
https://bioinformatics.sph.harvard.edu/current-bioinformatics-topics-workshops

Get an O2 account!



HMS IT RC O2- Confluence

Research Data Management (RDM)



Fall 2024 Data Lifecycle Training

Plan & Design

September 24
Managing Research Data Efficiently

September 26
Project and Lab Onboarding

October 31
Data Horror Stories: Avoid the Nightmare

November 19
Writing a Data Management and Sharing Plan

Collect & Analyze

September 19
Intro to MATLAB

October 10
Research Computing: Intro to Python

October 16
scRNA pre-processing

November 21
Research Computing: Intro to O2

December 5
RCBio: easy and quick HPC pipeline builder & runner

Store & Evaluate

October 22
Introduction to the General Records Schedule

October 24
Computing Strategies and Resources

November 22
Managing Paper Records: Off-Site Records Storage

December 17
Managing Electronic Records: Shared Drives and Emails

Share & Publish

September 18
Interact with your data using RShiny

November 14
Principles of Finding and Citing Data

November 20
GitHub Part I

December 3
Research Management: Tools for Open Science

December 12
Data Sharing in Repositories

In-person Virtual

LONGWOOD
RESEARCH DATA MANAGEMENT

https://datamanagement.hms.harvard.edu/about/news-events/rdmwg-calendar

Better RDM practice benefits you

- **HMS Data Management LMA**
  - **Webpage:** https://datamanagement.hms.harvard.edu
  - **Sign up for quarterly email updates**
- **Harvard-wide Research data Management**
  - https://researchdatamanagement.harvard.edu/

Join us for HBC Community Breakfast!

- An opportunity to get to know others in the community
- Free food and beverages
- Great conversations

More Info:

http://bioinformatics.sph.harvard.edu/breakfast/

Thanks!

- Kathleen Chappell and Andy Bergman from HMS-RC
- Dr. Tali Mazor from DFCI
- Data Carpentry

Contact Us

HBC
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