Introduction to the command-line interface (shell)
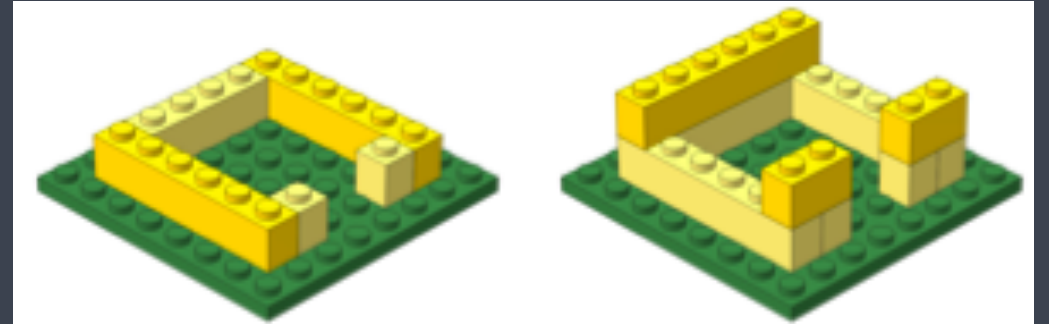
Harvard Chan Bioinformatics Core

in collaboration with

HMS Research Computing

https://tinyurl.com/hbc-shell-online

Learning Objectives

✓ Learn what a "shell" is and become comfortable with the command-line interface

- Find your way around a filesystem using written commands

- Work with small and large data files

- Become more efficient when performing repetitive tasks

✓ Understand what a computational cluster is and why we need it

Exit survey

https://tinyurl.com/hbc-shell-exit

Get an O2 account!

Search IT services and kno[wledge]

O2 Cluster Account

Description ⌄

What does it do?

Get an account on O2, the HMS High Performance Compute cluster

Available To ⌄

Who is eligible?

Any HMS or HMS-affiliated researcher who has an HMS eCommons account.

Cost ⌄

What does it cost?

There is no cost to labs whose PI has a primary or secondary faculty appointment in an HMS Quad department.

If the PI of your lab does not have a primary or secondary faculty appointment in an HMS Quad department, cluster usage will be charged for beginning later in 2021. Please see the following page for current details about rates: https://it.hms.harvard.edu/rc/core/rates.

Support ⌄

Please fill out the online help request form, or email rchelp@hms.harvard.edu.

How to Access ⌄

How do I get it?

Two-factor authentication is required to request an account on O2, as well as for O2 logins once your account is created. Harvard University uses a mobile app called Duo that makes the process quick and easy. Even if you already use Duo for HarvardKey, you will still need to setup a Duo profile for HMS.

- Setup HMS two-factor Authentication (HMS Duo Mobile)
- Reactivate or Reconnect HMS two-factor Authentication (HMS Duo Mobile)

Once you have Duo set up, Click the "Get Service" link to login and complete the request form.

Get this service   Learn more   Don't see what you're looking for?

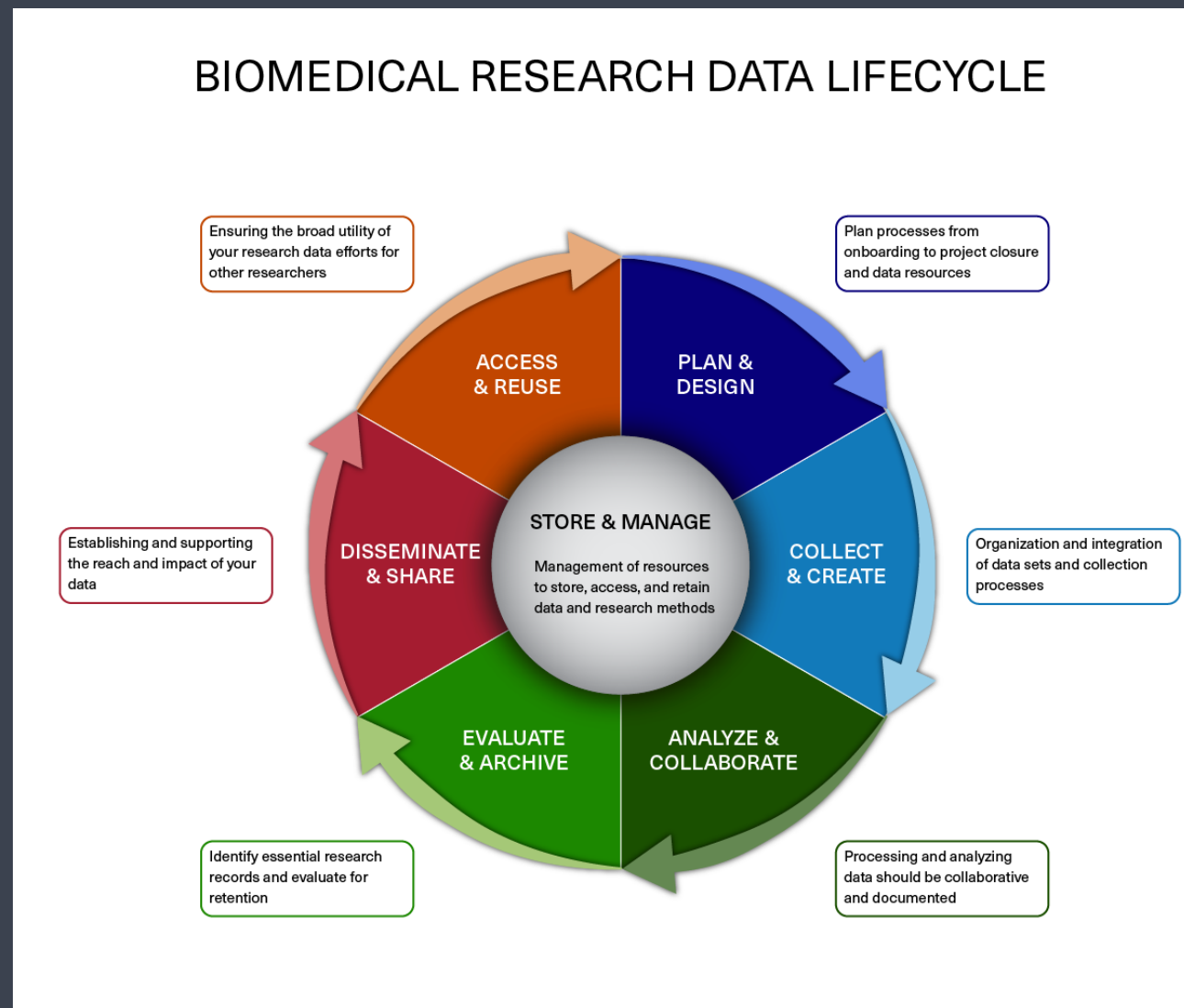# Data Management

- HMS Data management -

    Webpage: https://datamanagement.hms.harvard.edu/

    Click here to sign up for data management related emails

- Harvard-wide Research Data Management -

    https://researchdatamanagement.harvard.edu/

Data Management Short Workshops

BIOMEDICAL RESEARCH DATA LIFECYCLE

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

Data Management Short Workshops

Fall 2023 Data Lifecycle Training

Plan & Design

September 19
Managing Research Data Efficiently

October 4
Onboarding: Procedures for Research Consistency

October 17
Research Management with Open Science Framework

October 31
Data Horror Stories: Avoid the Nightmare

November 7
Writing a Data Management Plan with DMPTool

Collect & Analyze

September 6
Intro to O2

September 20
O2 Portal: Simplifying the Interaction & Experience of Using an HPC Environment

September 27
Intro to MATLAB

October 18
Optimizing O2 Jobs

November 8
Intro to Python

December 13
Data Cleaning with OpenRefine

Store & Evaluate

September 26
Introduction to the General Records Schedule

October 10
Managing Your Paper Records

October 11
The When, Where, and How of Data Storage

December 5
Managing Your Electronic Records

December 6
Keeping Data Safe and Secure

Share & Publish

September 20
Publication Perfect I

September 27
Making Code and Software Open: Connecting GitHub and Harvard Dataverse

October 18
Publication Perfect II

November 15
Securely Managing and Publishing Sensitive Data

November 15
Rmarkdown: Reproducible Reports

In-person
Virtual

LONGWOOD
RESEARCH DATA MANAGEMENT

Learn More & Register: bit.ly/rdmwg-calendar

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

Thanks!

- **Kathleen Chappell** and **Andy Bergman** from HMS-RC

- [Data Carpentry](#)

Contact us!

HBC webpage: http://bioinformatics.sph.harvard.edu

HBC training materials: http://hbctraining.github.io/main

HBC workshop listserv: https://tinyurl.com/hbc-mailing-list

Training email: hbctraining@hsph.harvard.edu

Consulting email: bioinformatics@hsph.harvard.edu

O2 (HMS-RC): rchelp@hms.harvard.edu

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@bioinfocore