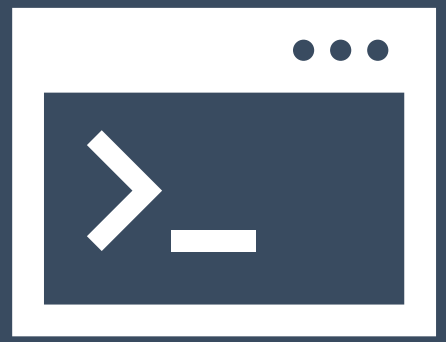
Introduction to R

https://tinyurl.com/hbc-r-revised



Harvard Chan Bioinformatics Core

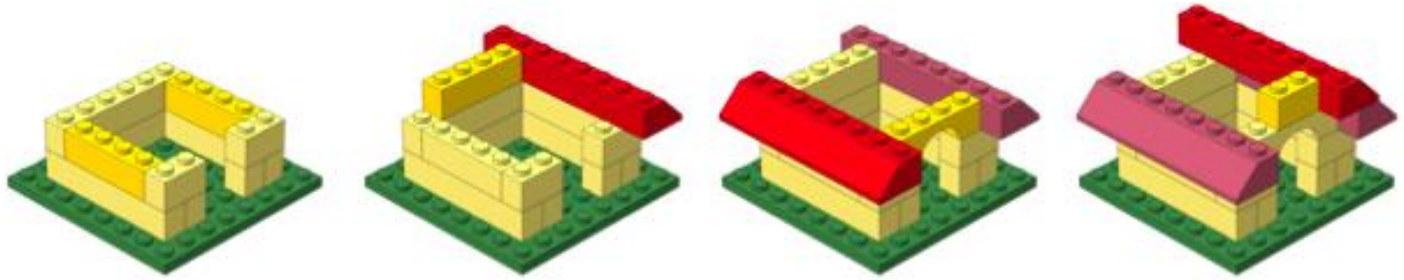
Learning Objectives

- Comfortably use RStudio (a graphical interface for R)
- Fluently interact with R using RStudio
- Become familiar with R syntax
- Understand data structures in R
- Inspect and manipulate data structures
- Install packages and use functions in R
- Visualize data using ggplot2
- Utilize pipes, tibbles and functions from the Tidyverse package suite

Exit survey

https://tinyurl.com/r-workshop-hbc

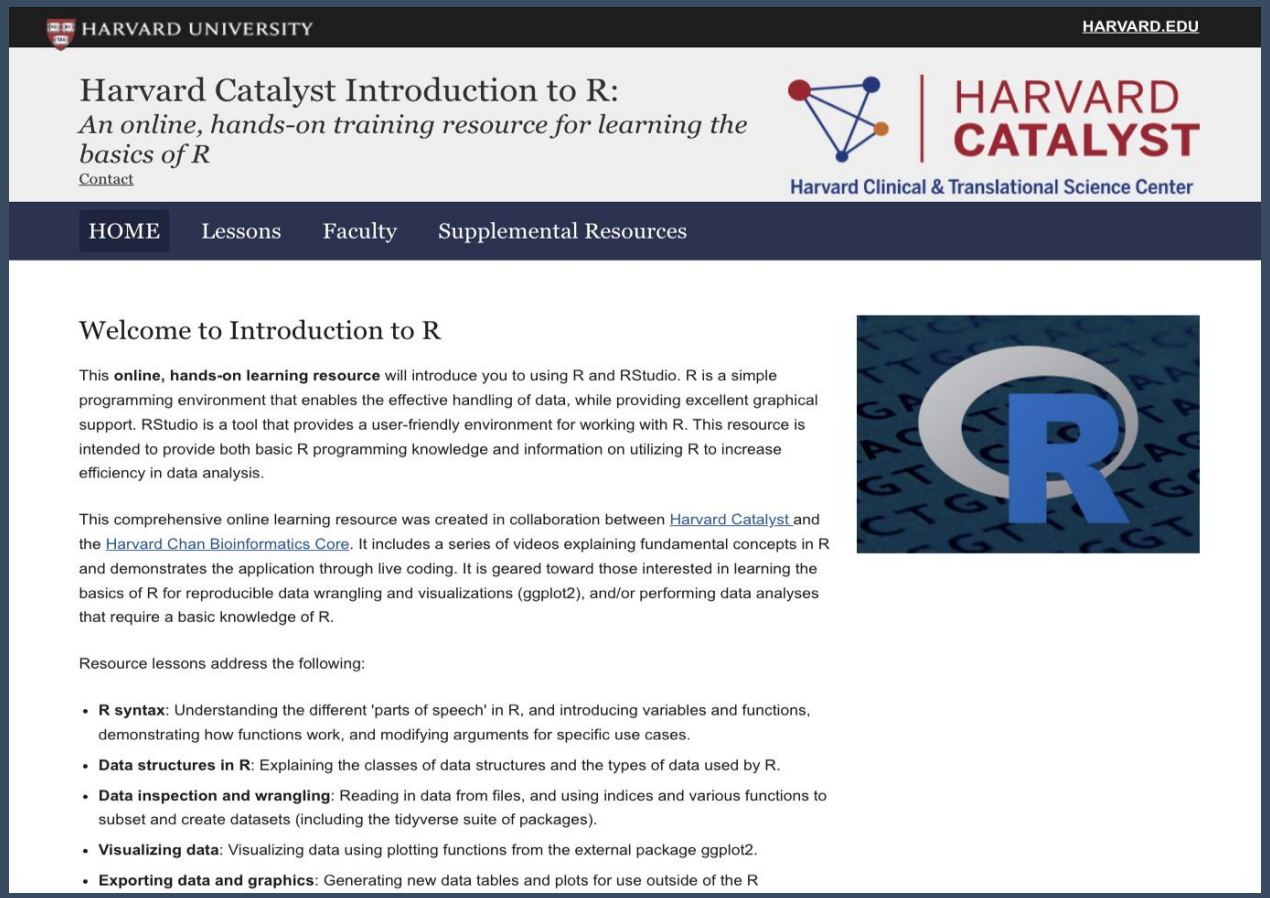
Keep building!



Topic	Pre-requisites	Date/Time	Time	Registration
Reproducible Research using Rmarkdown	R basics	3/19/25	1 - 4 pm	Register now!
"Track Changes" for Your Code: an Introduction to Git and GitHub	None	4/16/25	1 - 4 pm	Register now!
Coding with Others: Managing Conflicts on GitHub	“Track Changes” for your code: An Introduction to Git and GitHub	5/21/25	1 - 4 pm	Register now!

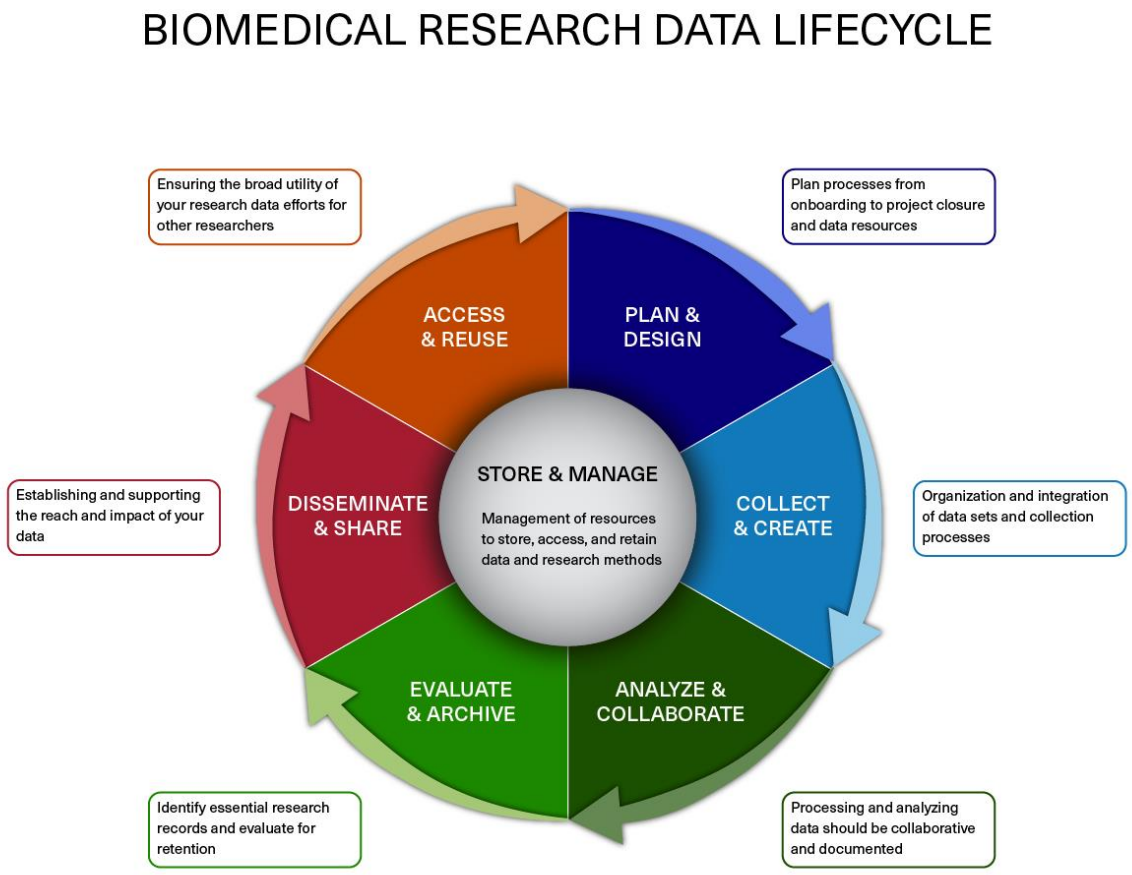
https://bioinformatics.sph.harvard.edu/current-bioinformatics-topics-workshops

Harvard Catalyst Online Resource



https://projects.iq.harvard.edu/hcatrresource

Research Data Management (RDM)



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/

Spring 2025 Data Lifecycle Training

Plan & Design

February 11
Data Management Offboarding for Research Projects

March 19
A Guide to Efficient Research Practices

March 26
Tips and Tricks for Writing an Actionable Data Management Plan

May 21
Research Data Stewardship Basics

Collect & Analyze

January 29
Data Literacy: Introduction to GIS

February 19
Foundations in R

March 19
Reproducible Research using RMarkdown

April 16
An Introduction to Git and GitHub

May 21
Managing Conflicts on GitHub

Store & Evaluate

March 10
Introduction to the General Records Schedule

April 7
Managing Paper Records: Off-Site Records Storage

April 21
Managing Electronic Records: Shared Drives and Emails

Share & Publish

February 27
Research Management: Open Access Publishing

April 9
Research Management: Closing Out Your Research

April 23
Data Sharing with Harvard Dataverse

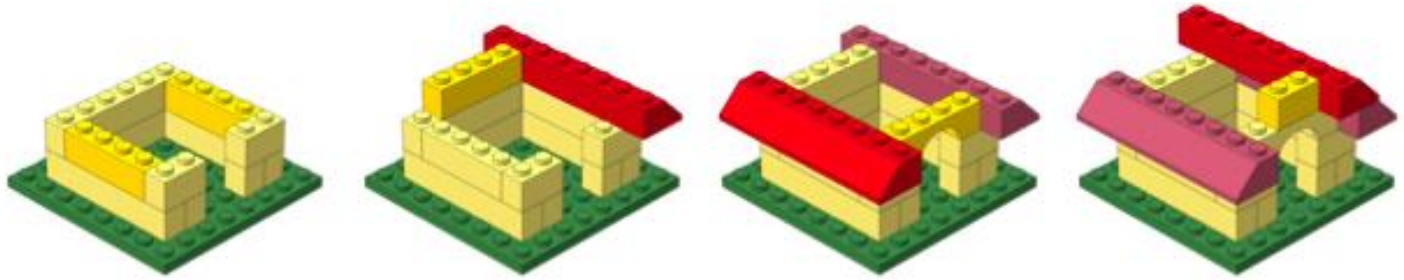
In-person
Virtual

LONGWOOD
RESEARCH DATA MANAGEMENT

Learn More & Register
bit.ly/rdmwg-calendar

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

Keep building!



Topic	Category	Date	Duration	Prerequisites
Introduction to SingleCell RNA-seq	Advanced	March 4, 7, 11	Three 2.5h session	R
Introduction to Differential Gene Expression Analysis	Advanced	March 18, 21, 25, 28	Four 2h sessions	R
Pseudobulk and related approaches for scRNA-seq analysis	Advanced	April 4, 8, 11	Three 2.5h sessions	R
Shell for Bioinformatics	Basic	April 22, 25, 29	Three 2.5h sessions	None
Investigating chromatin biology using ChIP-seq and CUT&RUN	Advanced	May 2, 6, 9	Three 2.5h sessions	Shell for Bioinformatics
Introduction to R	Basic	May 20, 23, 27, 30	Four 2h sessions	None
Peak Analysis	Advanced	June 17, 20, 24	Three 2.5h sessions	R

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

Join us for HBC Community Breakfast!

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

Thursday May 8th, 2025
9:00 to 10:30am

More Info:

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

Talk to us early!

Involvement in study design to optimize experiments

More Information

- *HBC training materials: https://hbctraining.github.io/main*
- *HBC website: http://bioinformatics.sph.harvard.edu*

Contact Us

Sign up for our mailing list:

https://tinyurl.com/hbc-training-mailing-list

- *HBC training team:* hbctraining@hsph.harvard.edu
- *HBC consulting:* bioinformatics@hsph.harvard.edu