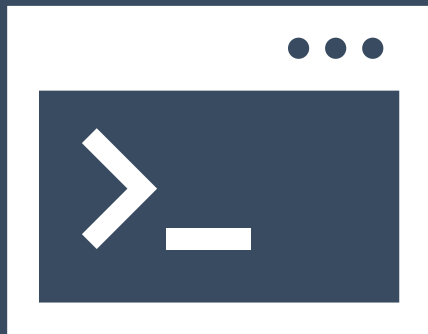


# Tools for Reproducible research

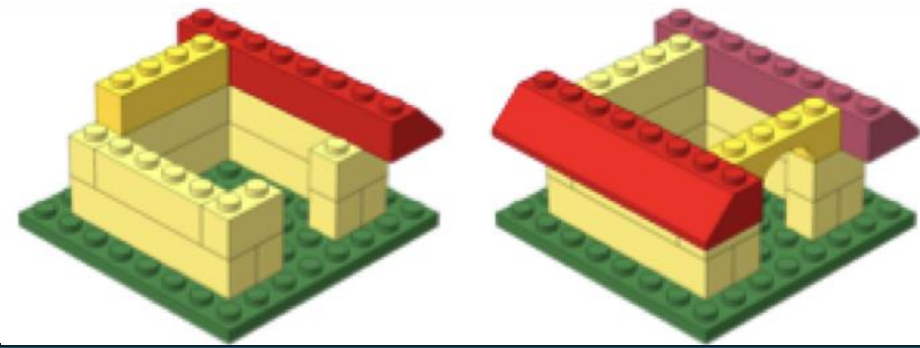
<https://tinyurl.com/hbc-rr>



Harvard Chan Bioinformatics Core



# Workshop Scope

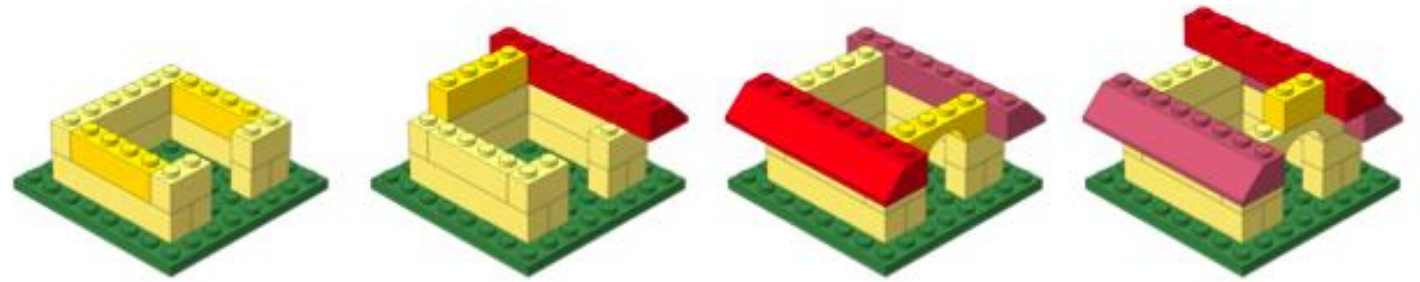


- ❖ Generate reports for your analyses using RMarkdown
- ❖ Track changes as you work on files using a version control system called Git (GitHub Desktop tool)
- ❖ Collaborate effectively, and disseminate code & other documents using Github

# Exit survey

<https://tinyurl.com/trr-exit>

# Keep building!



Topic	Pre-requisites	Date/Time	Time	Registration
Publication Perfect II	<a href="#">R basics</a>	8/21/24	1 – 4pm	Coming soon!
RShiny	<a href="#">R basics</a>	9/18/24	1 – 4pm	Coming soon!

# Research Data Management (RDM)

## BIOMEDICAL RESEARCH DATA LIFECYCLE



# Better RDM practice benefits you

- ❖ **HMS Data Management LMA**

- ❖ **Webpage:** <https://datamanagement.hms.harvard.edu>

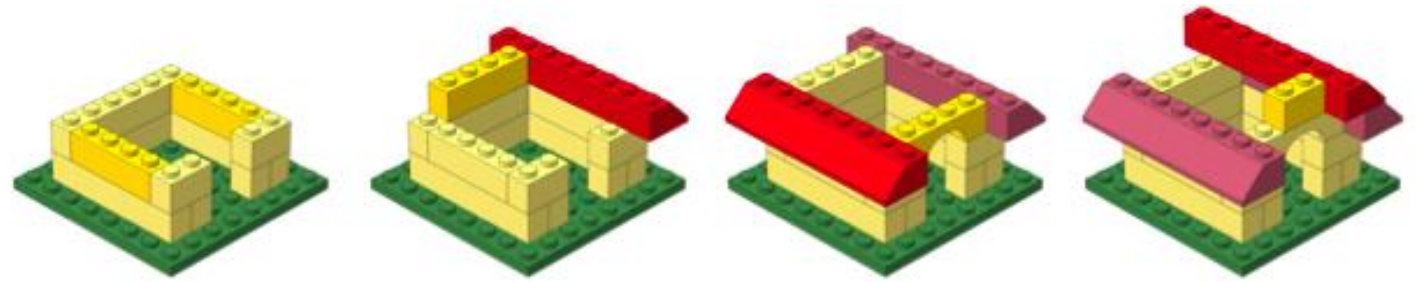
- ❖ **Sign up** for quarterly email updates

- ❖ **Harvard-wide Research data Management**

- ❖ <https://researchdatamanagement.harvard.edu/>

Date	Time	Event	Location
Aug 20	1pm	<b>Hello? It's Me, Your Data! Recommendations and Resources for Managing Research Data</b>	Zoom
Aug 27	10am	<b>Managing Your Electronic Records: Shared Drives and Email</b>	Zoom
Aug 28	1pm	<b>Unleashing LLM Power</b>	Countway Library, Classroom L1-032

# Keep building!



Topic	Category	Date	Duration	Prerequisites
<a href="#">Introduction to Differential Gene Expression (DGE) Analysis</a>	Advanced	Aug 20, 23, 27, 30	Four 2h sessions	<a href="#">R</a>
<a href="#">Shell on High Performance Computing (HPC) for Bioinformatics</a>	Basic	September 3, 6, 10	Three 2.5h sessions	None
<a href="#">Variant Calling</a>	Advanced	September 17, 20, 24	Three 2.5h sessions	<a href="#">Shell and HPC</a>
<a href="#">Introduction to R</a>	Basic	October 8, 11, 15, 18	Four 2h sessions	None
Peak analysis	Advanced	October 25, 29, November 1	Three 2.5h sessions	<a href="#">R</a>
Advanced topics in SingleCell RNA-seq	Advanced	November 12, 15, 19	Three 2.5h sessions	<a href="#">R</a>

<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 September 5<sup>th</sup>, 2024  
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>*

# Thanks!

❖ *Julie Goldman, Countway Library*

❖ *Data Carpentry*

# Contact Us

*Sign up for our mailing list:*

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

- ❖ *HBC training team:* [hbctraining@hsph.harvard.edu](mailto:hbctraining@hsph.harvard.edu)
- ❖ *HBC consulting:* [bioinformatics@hsph.harvard.edu](mailto:bioinformatics@hsph.harvard.edu)