



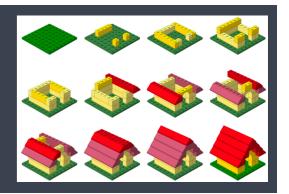
Bulk RNA-seq Analysis Part II

Differential Gene Expression

Harvard Chan Bioinformatics Core

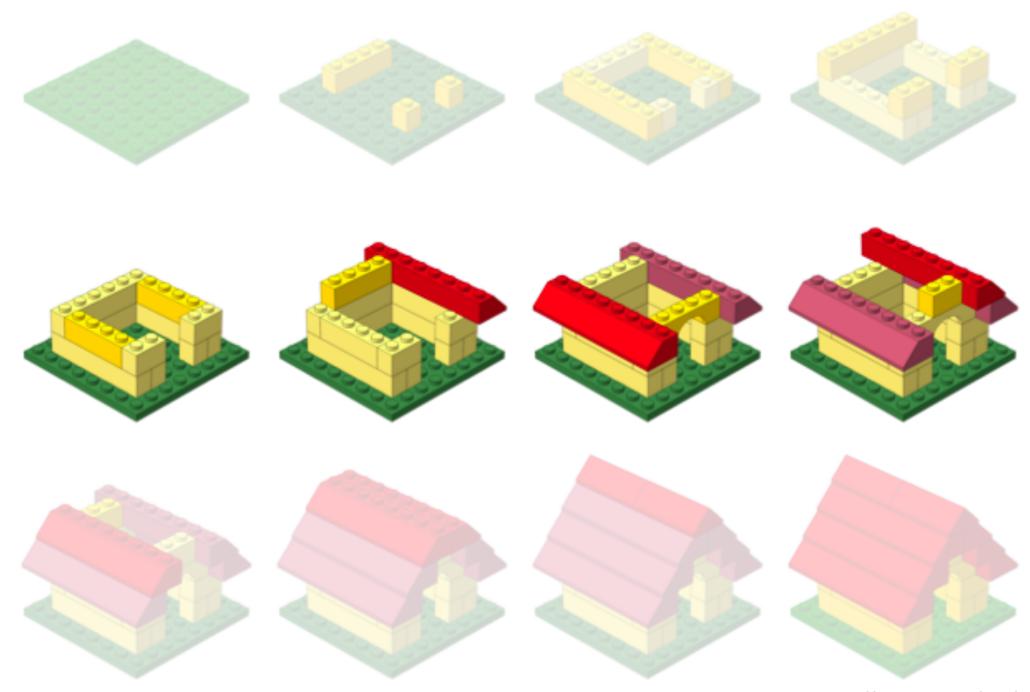
https://tinyurl.com/hbc-dge-online

Workshop Scope



Differential Gene Expression analysis

- ✓ Understand the considerations for performing statistical analysis on RNAseq data
- Start with gene counts (after alignment and counting)
- Perform QC on count data
- Use DESeq2 to perform differential expression analysis on the count data and obtain a list of significantly different genes
- ✓ Visualize results of the analysis
- Perform functional analysis on the lists of differentially expressed genes



http://anoved.net/tag/lego/page/3/

Bioinformatics data analysis

Exit survey

https://tinyurl.com/DGE-exit-survey

Interested in additional training?

All workshop materials are online: https://hbctraining.github.io/main

Sign up for our mailing list:

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

Current Topics in Bioinformatics

Generating reports with Rmarkdown	Online R resource from Harvard Catalyst	10/5/2022	1 – 4pm	<u>Register</u>
Introduction to Shell	None	11/2/2022	1 – 4pm	<u>Register</u>
Version Control using Git/Github	Shell	12/7/2022	1 – 4pm	<u>Register</u>

Free and open to everyone at Harvard University and its affiliates.

Register online!

Data Management

- HMS Data management -
 - Webpage: https://datamanagement.hms.harvard.edu/
 - Click here to sign up for data management related emails
 - Check out the training schedule for short workshops

- Harvard-wide Research Data Management
 - https://researchdatamanagement.harvard.edu/

Get (stay) in touch with us!

Training email: hbctraining@hsph.harvard.edu

Consulting email: bioinformatics@hsph.harvard.edu

Twitter: @bioinfocore