

Welcome to Genomic Data Visualizations

Jan 23, 2023

(if you have a hard time reading this, please move forward)

Notes of recordings:

- accomodate students who may be sick, interview for grad school / jobs
- available only to class students

Ground rules for class:

- welcome to raise hand, welcome to just interupt

Goals and lessons for today:

- introducing ourselves
- setting some expectation for class
- making sure you know how to submit HW

Learning objectives of the class:

- you should understand what is expected of you

Learning objects of this course:

- make data visualization
- critique data visualization
- techniques to improve poor data visualizations
- design produce create data visualization spatial omics data
- more comfortable in R, Github

https://bit.ly/GDV23_presurvey

- few questions (not graded)
- throughout course put into groups, groups will working on the same dataset

Class resources: <https://jef.works/genomic-data-visualization-2023>

Class Slack: genomic-data-viz.slack.com

Lesson goals: establish a set of common vocabulary for describing and communicating about data visualizations

-> next class

What is a data visualization?

- way to demonstrate or represent information
- make it easier to see trends or interpret underlying information
- highlight differences or similarities between groups -> specific trend
- graphical representation of information
 - > not just a table

	x	y
a	1	5
b	7	8
c	2	9

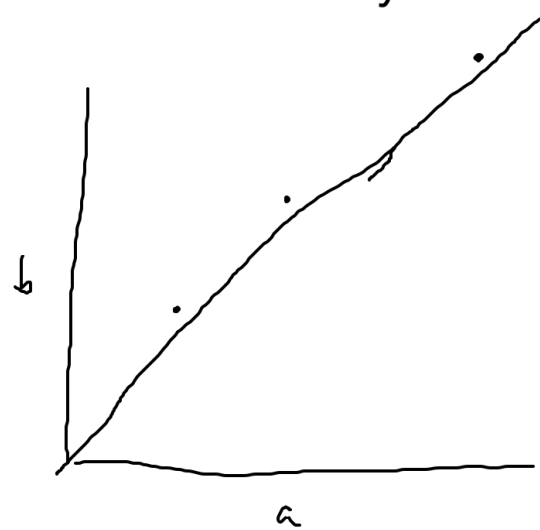
Why we make data visualizations:

- make trends more clear

- > “salient” or “saliency”

- to make trends more salient or enhance the saliency of certain trends in data

	x	y	z
a	1	2	7
b	2	4	15



Next class:

- data visualization theory

- establish a common set of vocabulary

- start programming in R and Rstudio

End of every class: reflection card -> https://bit.ly/GDV23_rc