Data Ethics & Data Collection

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ENGW 1110 Introduction to First Year Writing
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Getting to Know You!

What are some recent advertisements you have seen pop up on your Snapchat, Instagram, Facebook, Youtube, and other online spaces?

- Which advertisements interested you?
- What are some surprising advertisements?
- Why do you think you received those advertisements?



Workshop Agenda

- Objectives
- Introduce 'Big Data' Concepts
- Discuss data, privacy, and data categorization
- Data Creation and Collection: Introducing Google Sheets

Slides, handouts, and data available at http://bit.ly/2KsBbv0



Workshop Objectives

- Understand the ways data is being used in society as well as how algorithms impact and shape our daily lives
- Understand the ways in which technology reflects cultural, social, and political biases.
- Explore the ways in which privacy and security are being reshaped and redefined through the use of big data, algorithms, and policy
- Explore how to create, collect, and analyze data in Google Sheets

What is 'Big Data'?

Big data has been called the 'new oil' by some.

Shoshana Zuboff argues that we now live in an era of 'surveillance capitalism.'

The four components of big data are: **volume**, **variety**, **velocity** and **veracity**



Why should we care?

- Big data is characterized by its scale
- Big data sources include: digitized records, social media/internet activity, or sensors from the physical environment.
- Big data is often privately owned
 - Example: an insurance company purchasing social media activity from facebook in order to make specific insurance sales decisions.



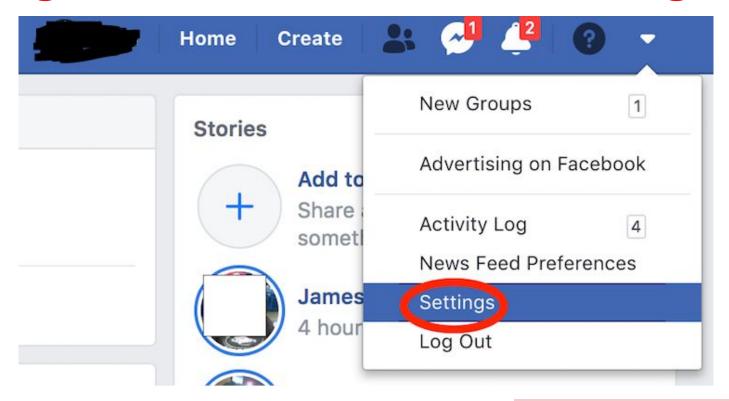
Facebook Preferences

Facebook collects, stores, and sells information about you so you get better targeted ads and your newsfeed is tailored to your categories.

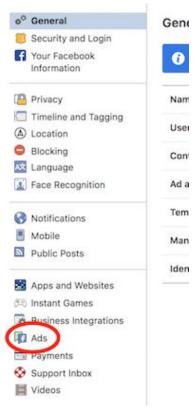
Other social media sites that do this:

- Instagram (owned by Facebook)
- Google
- YouTube (owned by Google)
- Twitter

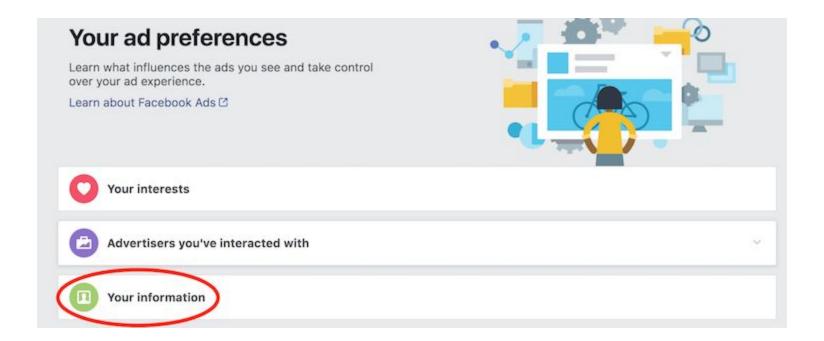
















The categories in this section help advertisers reach people who are most likely to be interested in their products, services, and causes. We've added you to these categories based on information you've provided on Facebook and other activity.

Away from family	Close Friends of Men with a Birthday in 0-7 days		
Away from hometown	Birthday in March		
Close friends of people with birthdays in a month	US politics (very liberal)		
Sales	Education and Libraries		
Administrative Services	Facebook access (mobile): smartphones and tablets		
Frequent Travelers	Technology early adopters		



Google's File on You is 10 Times Bigger Than Facebook's — Here's How to View It

Google, Amazon, Apple, and Microsoft are all central players in "surveillance capitalism" and prey on our data.



Example: If you have **location services** turned on for Google (like if you use Google maps), Google can track your every move. Go to:

https://www.google.com/maps/timeline



Ethical Implications

- Cambridge Analytica Controversy
- Big data also raises questions of autonomy, anonymity, privacy, discrimination, and bias.
- Questions to consider:
 - O How are we being represented online?
 - Our data being used?
 - Who is using it and for what purposes?
 - O How might it be used in the future?



DIY Cybersecurity and Tightening your Privacy

Want to make your life more private? Follow this "DIY Guide to Feminist Cybersecurity"

https://hackblossom.org/cybersecurity/



So what does 'big data' have to do with First Year Writing?



Documenting Your Writing

For your upcoming assignment, you will be collecting your own data by tracing your writing practices using **Google Sheets**.

You will create your own spreadsheet with columns and collect data for a week!

Questions to Consider

As we talk about Google Sheets and what it can do, think about:

- In what ways are your column choices impacting how you view your writing patterns?
- Which information will you choose to omit and choose to highlight both as your collecting data and then as your reflecting on that data?
- How do you think about your audience and your purpose while you're writing? How can you highlight this through your data collection?



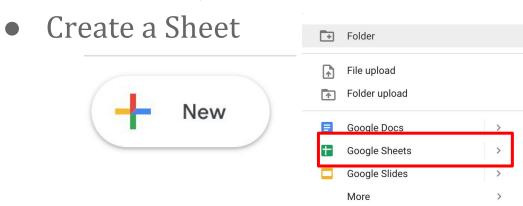
Google Sheets

Google Sheets is Google's version of Excel. You can create spreadsheets and use functions to collect, organize, analyze, and interpret data (both numerical and textual data).



Creating A Google Sheet

- Go to your Google Drive (drive.google.com)
- Folder Creation:
 - If you have a lot of files/folders your folder for this
 - Otherwise, create a new folder and title it clearly





Google Sheets Anatomy Title of the file Example Sheet File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive Toolbar ► ~ 🖶 🕆 100% - \$ % .0_ .00_ 123 - Arial

Share function to add Kelly

> Columns (letters)

å Share Cell (B2) 10 19 To add more sheets in one file

Rows

(numbers)

Northeastern University NULab for Texts, Maps, and Networks

Sheet1 ▼

Feel free to ask questions at any point during the presentation!

Important Google Sheets Vocabulary

Rows: the vertical numbers

Columns: the horizontal

letters

Cells: the individual rectangular box that has a unique ID based on placement (column + row)

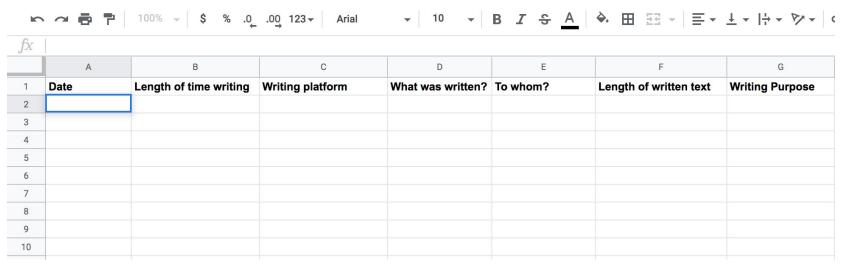
Functions: Mathematical functions that can be used on numerical data

Charts: Visualizations that can be created about your data



Organizing Your Writing Data

Create several columns to enter in particular data about your writing patterns. Example:





Example

Α	В	С	D	E	F
Date	Length of time writing (mins)	Writing platform	To whom?	Length of written text (characters)	Writing Purpose
09/25	5	social media	Friend	250	Vent
09/25	10	email	Teacher	300	Extension
09/25	11	email	Family	230	Say hi
09/25	4	texting	Family	20	Check in
09/26	6	forums	Internet Stranger	560	Pursuade
09/26	7	social media	Friend	350	Jokes
09/27	15	forums	Internet Stranger	700	Pursuade
09/27	23	word processing softw 🔻	Teacher	300	Get Good Grade
09/27	7	social media	Friends	120	Vent
09/27	2	texting	Family	30	Check In
09/27	2	texting	Friend	90	Jokes
09/27	2	texting	Friend	30	Making plans
09/28	90	word processing softw *	Teacher	350	Get Good Grade
09/28	2	texting	Friend	150	Making plans
09/29	30	word processing softw 🔻	Teacher	300	Get Good Grade
09/29	32	word processing softw ▼	Teacher	200	Get Good Grade
09/29	10	forums	Internet Stranger	500	Persuade
09/29	11	email	Teacher	100	Question about we
		_			

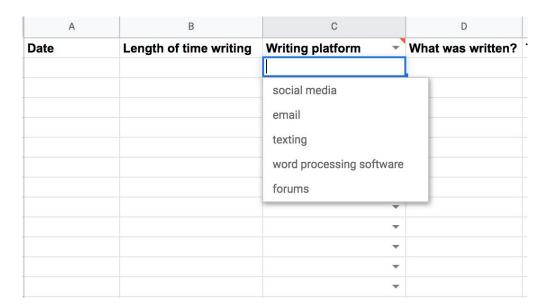


Northeastern University NULab for Texts, Maps, and Networks

Feel free to ask questions at any point during the presentation!

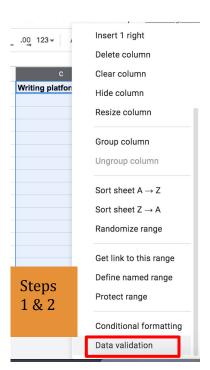
Data Validation

Some columns might require "data validation," which means only particular data can be selected.

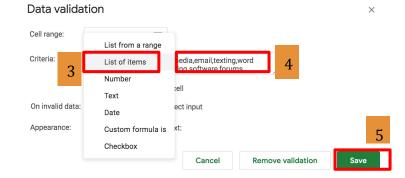




How to Do Data Validation

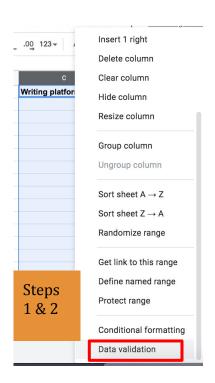


- 1. Select the section you want to be validated (example, entire column)
- 2. Right click and scroll to "Data Validation" (or go to Data > Data Validation)
- 3. Choose the proper criteria (in this case, "List of Items")
- 4. Input the list of items separating each item with a comma
- 5. Click "Save"

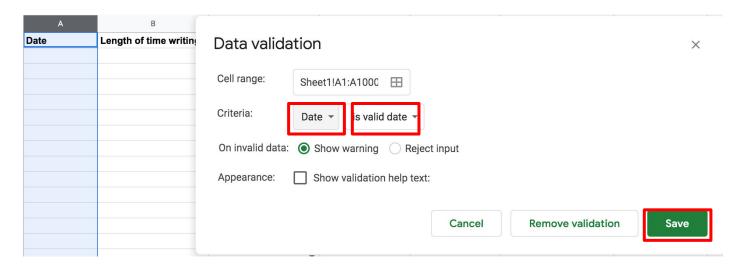




Date Data Validation



- 1. Follow the same steps as 1 & 2
- 2. For criteria, click "Date" and then click "Is a Valid Date"
- 3. Now you can only enter date information in that cell!





Functions

When you're finally done collecting all your writing data, what do you do with it? You can use **functions** to summarize your data!

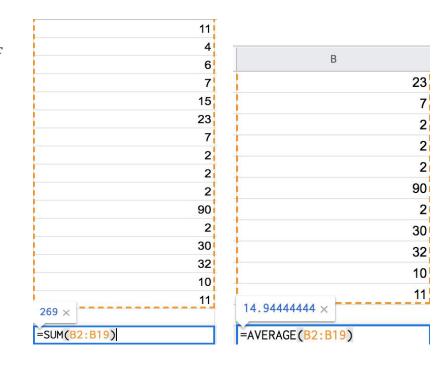
Example:

- Average number of characters written per entry
- Total number of characters written
- Total length of time writing
- Average length of time writing



How to do Functions

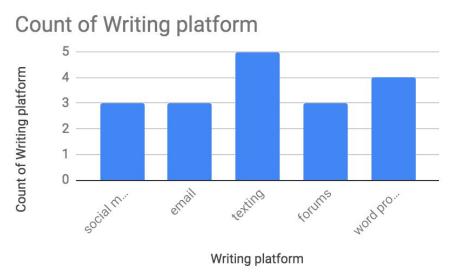
- 1. In a blank cell (preferably at the bottom of your data), type =
- 2. You will be provided options for different functions!
 - a. To do a total, type =SUM(
 - b. To do an average, type =AVERAGE(
- 3. Select the cells you would like to be included in the total
- 4. Voila! You have your function that will also update if you update cells!

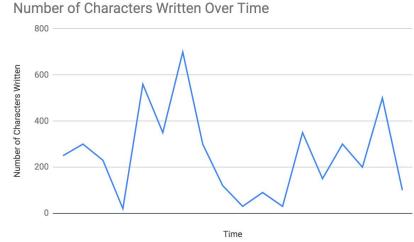




Charts

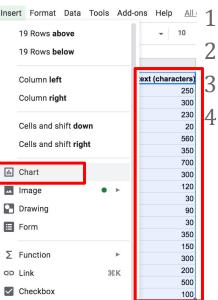
Similar to functions, charts allow you to summarize your information as well as visually present it. You can also use charts for your "data validation" sections!



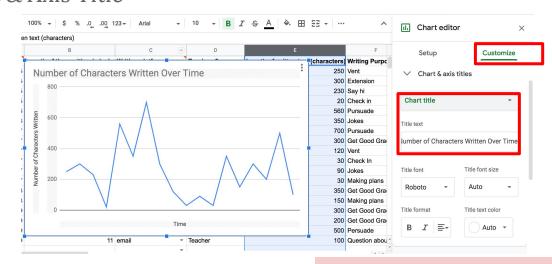




How to Add a Chart



- Select the data you want to add the chart
- Click "Insert" then "Chart"
- Customize your new chart using the "Chart Editor"
- 4. Add labels (the title, x and y axis, etc) in "Customize" > "Chart & Axis Title"





Your Turn!

- 1. Create at least five columns and add at least 5 rows of data in for each
- 2. Use the "Data Validation" on one column
- 3. Find the SUM and AVERAGE of one of your columns
- 4. Create one chart

Reminder: these slides are available at http://bit.ly/2KsBbv0



Post-Exploration Group Discussion

- 1. What type of data did you create?
- 2. What did your chart look like?
- 3. What did you include in your data validation?
- 4. Anything surprising? Any questions?



Thank you!

If you have any questions, contact us at:

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Title

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