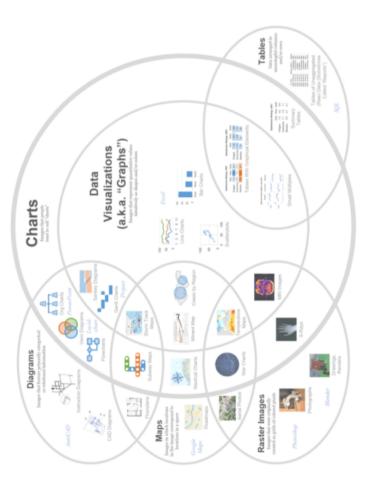
BITL2

This worksheet uses the linked Google sheets file introvis2023-lab01 found on ORTUS. Open it and make a local copy for yourself.

- 1. In your local version, open the first sheet "Sheet1."
 - (a) Create a bar chart from the data using "Insert \rightarrow Chart." Note the "Customize" tab that appears in the "Chart editor" sidebar.
 - (b) Explore all the different things you can change in the data, including, but not limited to:
 - Adding a title
 - Ordering the data
 - Changing the labels
 - Changing the ticks on the axes
 - Choosing different colors
 - (c) Submit on ORTUS your stylized version of the bar chart.
- 2. In your local version, open the second sheet "Sheet2."
 - (a) Create a line plot from the data, with two lines. Note that the numbers are in very different ranges for each try to make the lines visually similar, but with two different number scales, one on the elft side, one on the right side of the plot.
 - (b) Submit on ORTUS your plot.

A Map of Data Visualization





Things That Can Contain Charts Design Styles of Charts and



Communication Techniques Design Skills & Data

	Fundamental Skills Stills that are required to design only chart or thing that can contain charts	Specialty Skills Stills that are required to dedge some charts or things that can contain charts
Protect	Selecting chart types, scales, color paletter, legends etc. Making charts obvious Avvoiding misrepresenting data Basic statistics	 Canphic design Antistic takent Design software expertise Cosing Advanced statistics, process control, etc.
	Data Communication Techniques That G Showing the Data"	Data Communication Techniques That Go Beyond "Just Showing the Data"
	Storytelling Techniques	General Communication Techniques

D

- Explicitly stating insights/re chart titles, callouts
 Visually hightling import
 Removing non-essential da
 Etc. Embedding charts in story arcs, ameodole Creating charts, tension by gradually revealing data
 Naing characters, humanizing data
 Violang expediations
- Practical Reporting 0 2022 Not Determine particalingoung com Rev. 0.1 | Jan. 2022

Data and visualization: The spectrum of skills and tools between data proficiency and design proficiency. "Visualization" is somewhere in between, plus more in a third direction. (source: LinkedIn)

	/ We're recruiting!					
Data	Ĺ					Design
←∎	•		-	-		 →
Data analysis and visualization programming tools	Visualization programming tools	Data tools used for visualization	Dedicated data visualization tools	Presentation software that makes graphs	Layout software	Illustration and drawing software
R/Python	D3	Excel	Datawrapper	PowerPoint	InDesign	Illustrator

Books about data visualization: Some of these (and some not mentioned) you will have access to this semester. (source Twitter)

