

CMPU 187 · Introduction to Digital Humanities

### Data

21 April 2021

## What's data?

"The most inclusive summary is to say that data are representations of observations, objects, or other entities used as evidence of phenomena for the purposes of research or scholarship."

Christine Borgman, Big Data, Little Data, No Data

# What's data good for? What's data bad for?

# Working with data

••• ••• 125% ~	i≡ <b>~</b>	<u>+</u> → <b>■</b>		
+ Sheet 1				

				NJShip	wrecks					
125% ~	H	<b>- -</b>	É, ∼ 📒			▶ ■				
Sheet 1										
									?	Table data was imported. Adjust Setting
SHIP'S NAME	AKA	SHIP'S OWNER	VESSEL TYPE	YEAR BUILT	WHERE BUILT	DATE LOST	YEAR	MNTH	DAY	LOCATION LOST LATITUDE
74 H	93015		Scow			7/28/1916	1916	7	28	Sandy Hook SE 5 mi
A B Crosby			Schooner	1884		3/12/1888	1888	3	12	Atlantic Highlands
A B Sherman			Schooner	1883		12/8/1886	1886	12	8	Five Fathoms Bank Light
A B Thompson			Yacht			7/18/1874	1874	7	18	Absecon
A C Austin			Schooner			2/1868	1868	2		Sandy Hook Romer Shoal
A C Wescoat (1989)	۸	A C Wescoat Co	Deck barge			10/11/1989	1989	10	11	Atlantic City Artificial Reef 39-15-540
A C Wescoat (2006)			Deck barge			7/26/2006	2006	7	25	Ocean City Artificial Reef 39-09-819
A D Scull			Schooner	1864		4/18/1880	1880	4	18	Townsends Inlet
A E Douglass			Schooner	1855		6/4/1862	1862	6	4	Barnegat N 8 mi
A F Baillie			Schooner	1872		11/17/1875	1875	11	17	Carters Bar, VA
A F Crockett			Schooner	1881	Bath, ME	5/21/1894	1894	5	21	Harvey Cedars NE .5 mi
A Field	A D Field		Schooner			2/10/1852	1852	2	10	Deal Beach
A G Ropes		Luckenbach SS Co	Schooner - Barge	1884	Bath, ME	12/26/1913	1913	12	26	Island Beach
A H Bowman			Steamship			12/4/1857	1857	12	4	Deal Lake N .25 mi
A H DuMont		Spentonbush Red Star Co	Tanker	1940	Camden, NJ	6/10/1986	1986	6	10	Garden State North Artificial Reef 39-37-727
A H Edward			Schooner			1820	1820			Nine Mile Beach
A H Hurlburt			Schooner	1871	Middletown, CT	6/26/1884	1884	6	26	Cape May LSS SW 4 mi
A J Bentley		Bentley & Gildersleeve	Schooner	1865	Hartford, CT	5/27/1873	1873	5	27	Barnegat
A J Hoole			Schooner			12/19/1902	1902	12	19	Spermaceti Cove LSS S 1 mi
A L & M Townsend	George White		Schooner	1871	Barnegat, NJ	12/30/1888	1888	12	30	Little Egg LSS S 2 mi
A L Lee (1897)			Schooner	1884	Mays Landing, NJ	3/25/1897	1897	3	25	Ocean City LSS E .5 mi
A L Lee (1898)			Schooner	1884	Mays Landing, NJ	8/26/1898	1898	8	26	Absecon bar
A L Lee (1902)			Schooner	1884	Mays Landing, NJ	12/10/1902	1902	12	10	Absecon bar
A Lincoln			Schooner	1865	Essex, MA	10/12/1891	1891	10	12	Barnegat

Data: https://bit.ly/3xfMAEQ

Fruit, Price Apple, \$0.50 Banana, \$10



Song,Lead,Year
Help!,Lennon,1965

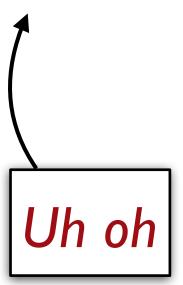
Song,Lead,Year Help!,Lennon,1965 Can't Buy Me Love,McCartney,1969

Song, Lead, Year Help!, Lennon, 1965 Can't Buy Me Love, McCartney, 1969 Here, There and Everywhere, McCartney, 1966

Song, Lead, Year Help!, Lennon, 1965 Can't Buy Me Love, McCartney, 1969 Here, There and Everywhere, McCartney, 1966

Uh oh

Song, Lead, Year Help!,Lennon,1965 Can't Buy Me Love, McCartney, 1969 Here, There and Everywhere, McCartney, 1966





The comma llama strikes again!

https://www.youtube.com/watch?v=fEcKltDBQjl



"Song", "Lead", "Year" "Help!", "Lennon", "1965" "Can't Buy Me Love", "McCartney", "1969" "Here, There and Everywhere", "McCartney", "1966"

Better, but problems can still occur if we move on from the Beatles

"Song", "Lead", "Year" "Help!", "Lennon", "1965" "Can't Buy Me Love", "McCartney", "1969" "Here, There and Everywhere", "McCartney", "1966" ""Heroes"", "Bowie", "1977"

Bowie scares us with his quotation marks.

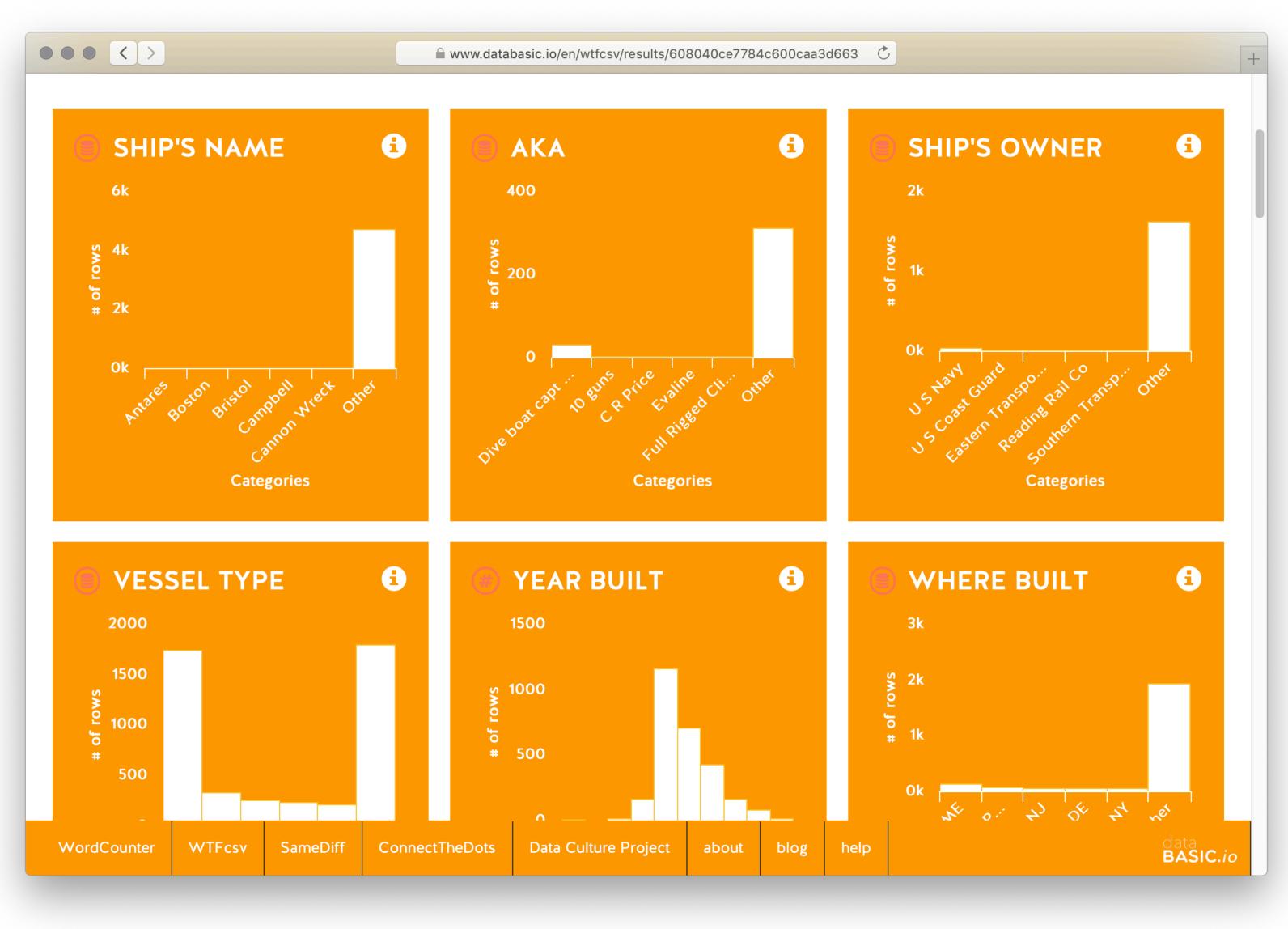


"Song", "Lead", "Year" "Help!", "Lennon", "1965" "Can't Buy Me Love", "McCartney", "1969" "Here, There and Everywhere", "McCartney", "1966" "\"Heroes\"","Bowie","1977"

Sorted.

#### TSV: Better living through tabs

Song Lead Help! Lennon Can't Buy Me Love McCartney Here, There and Everywhere McCartney "Heroes" Bowie



databasic.io/en/wtfcsv

What are some questions you could explore with this data set?

### XML gives us nesting

<dvdCollection> <dvd> <id>1</id> <title>Raiders of the Lost Ark</title> <release-year>1981</release-year> <director>Steven Spielberg</director> <actors> <actor>Harrison Ford</actor> <actor>Karen Allen</actor> <actor>John Rhys-Davies</actor> </actors> </dvd></dvdCollection>



```
JSON gives us nesting with less crying
  "dvds": [
   "1": {
      "title": "Raiders of the Lost Ark",
      "release year": 1981,
      "director": "Steven Spielberg",
      "actors": [
         "Harrison Ford",
        "Karen Allen",
         "John Rhys-Davies"
```

#### Acknowledgments

This lecture incorporates material from: Miram Posner, UCLA