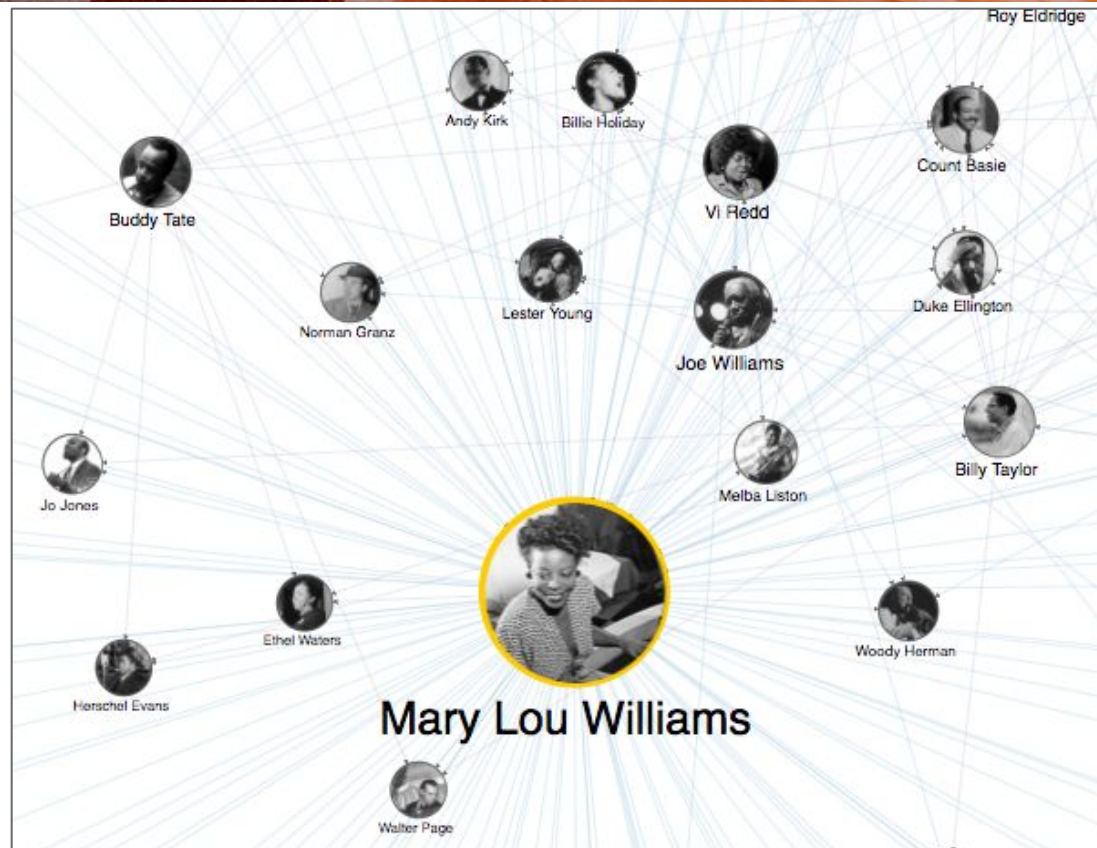# Visualize your data on an interactive map

Coffee
& Code

Anna Kijas
Digital Scholarship Librarian
October 24, 2017

How & why do we use visualization?

Cristina Pattuelli, *Linked Jazz*. Pratt Institute School of Library Information Science. https://linkedjazz.org/.
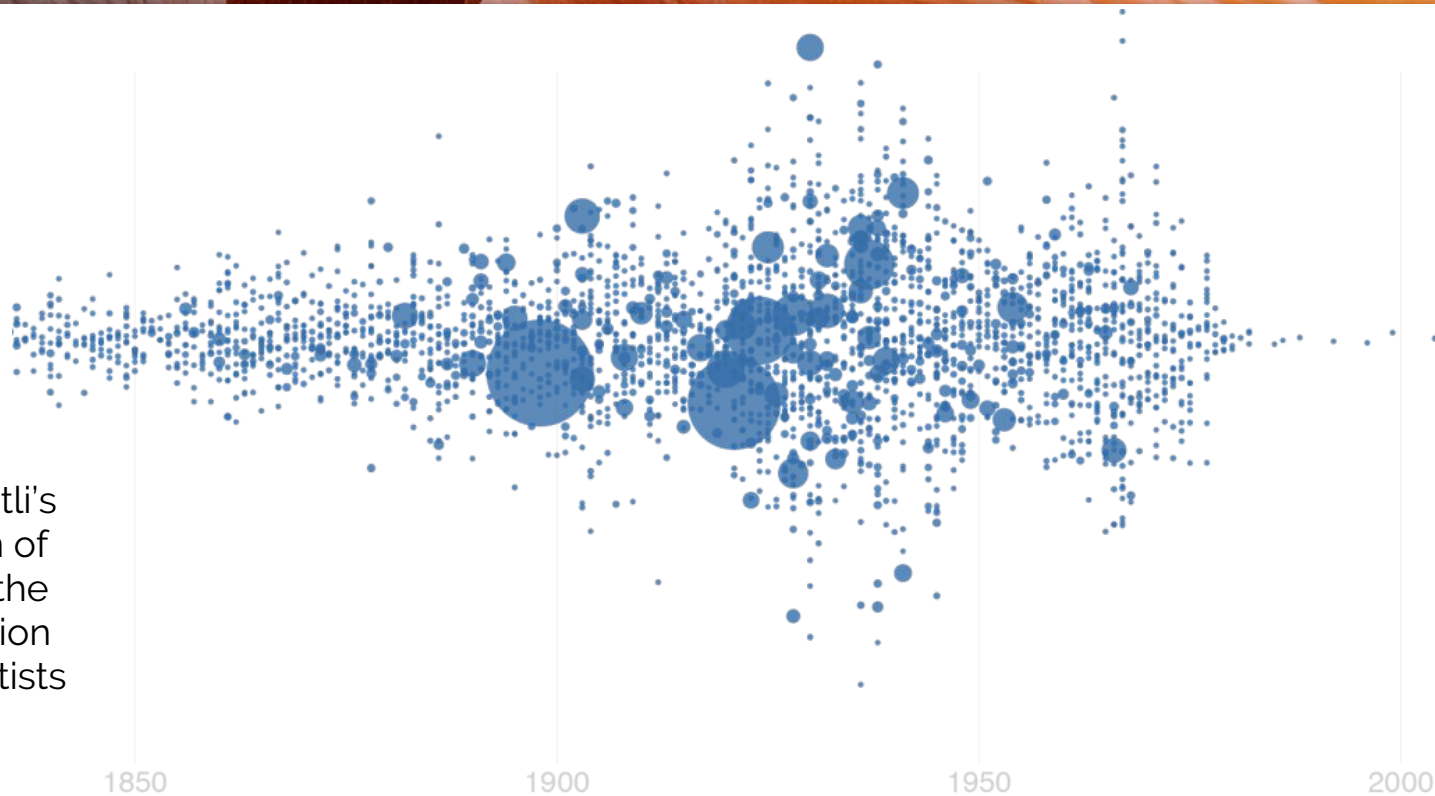
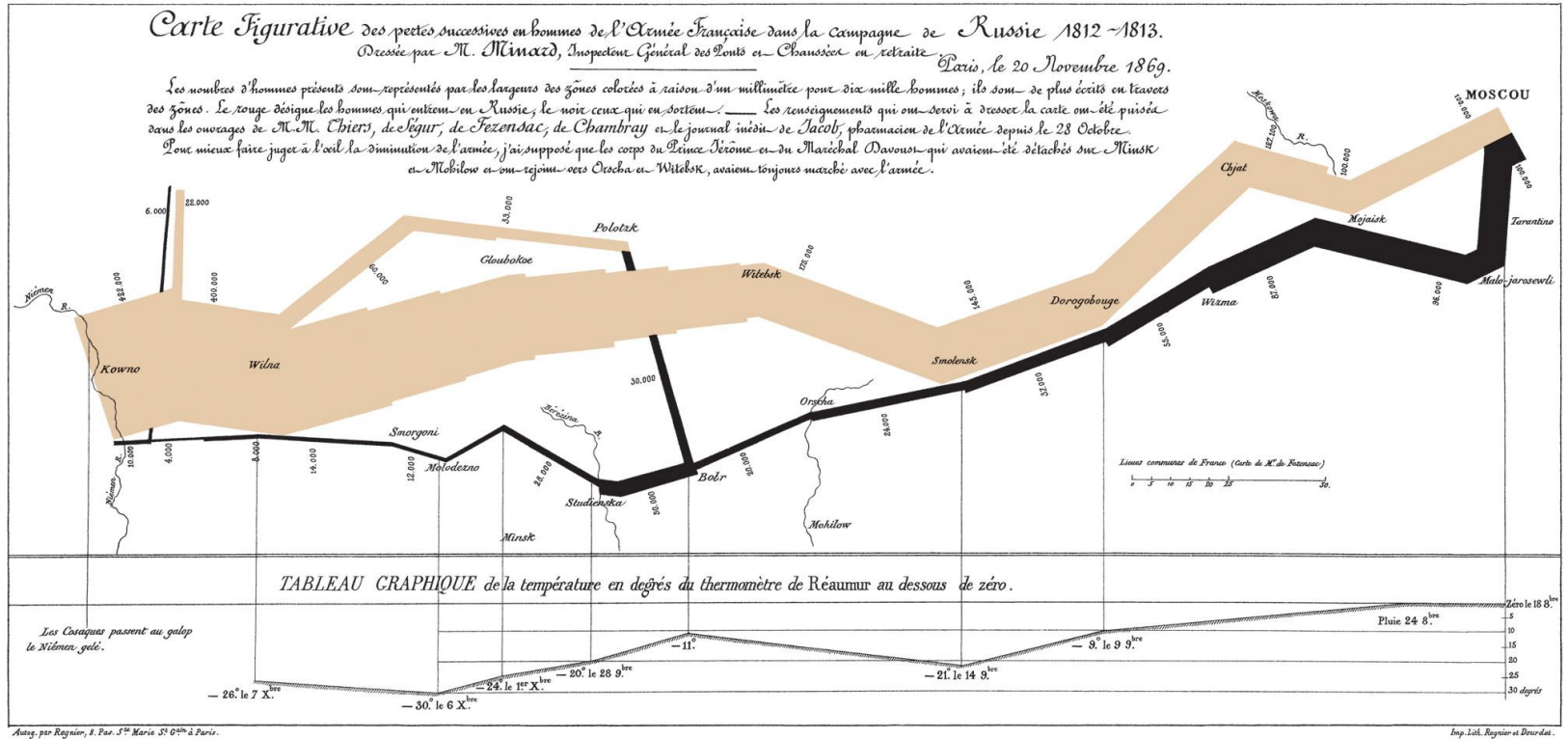Word cloud based on Jane Austen's novels. https://voyant-tools.org/?corpus=austen.

Lindsay King and Peter Leonard, *Robots Reading Vogue*. Yale University.

http://dh.library.yale.edu/projects/vogue/slice_histograms/

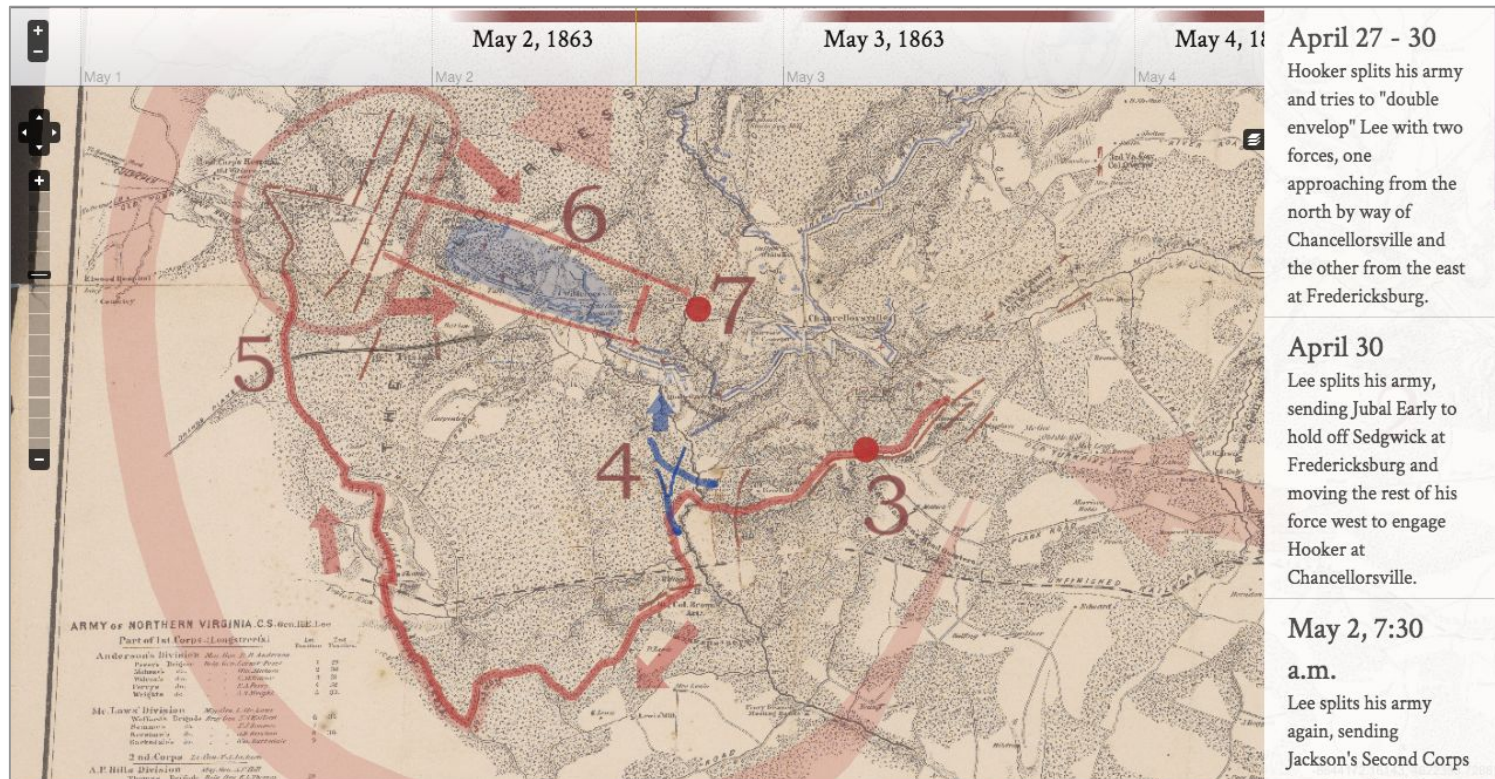Florian Krautli's visualization of artworks in the Tate collection based on artists birthdates.

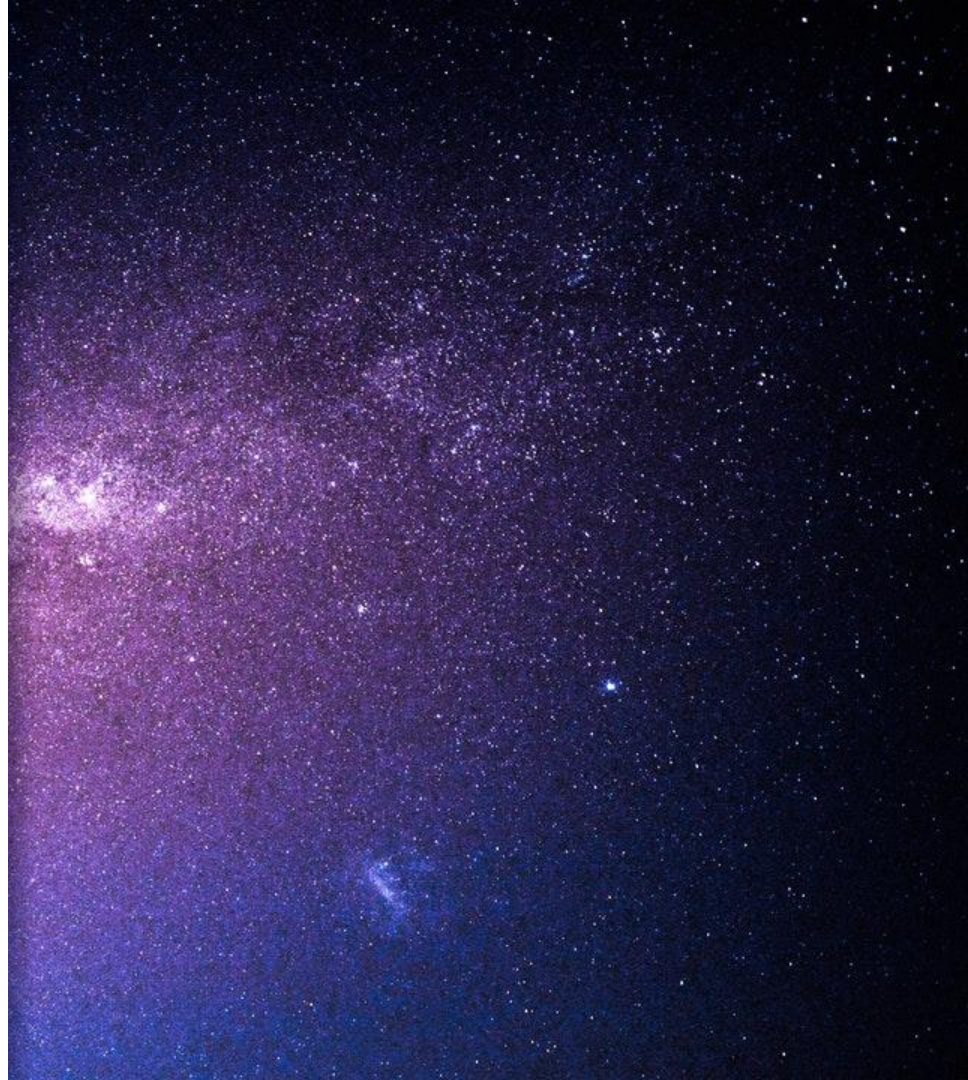1850   1900   1950   2000

Charles Minard, Map of Napoleon's disastrous Russian campaign of 1812. (1869).
https://en.wikipedia.org/wiki/Charles_Joseph_Minard#/media/File:Minard.png.

Jedediah Hotchkiss and The Battle of Chancellorsville

http://hotchkiss.neatline.org/neatline-exhibits/show/battle-of-chancellorsville

Points, Lines, Polygons...

GIS terms demystified

What about the data...

Attribute data

Spatial data

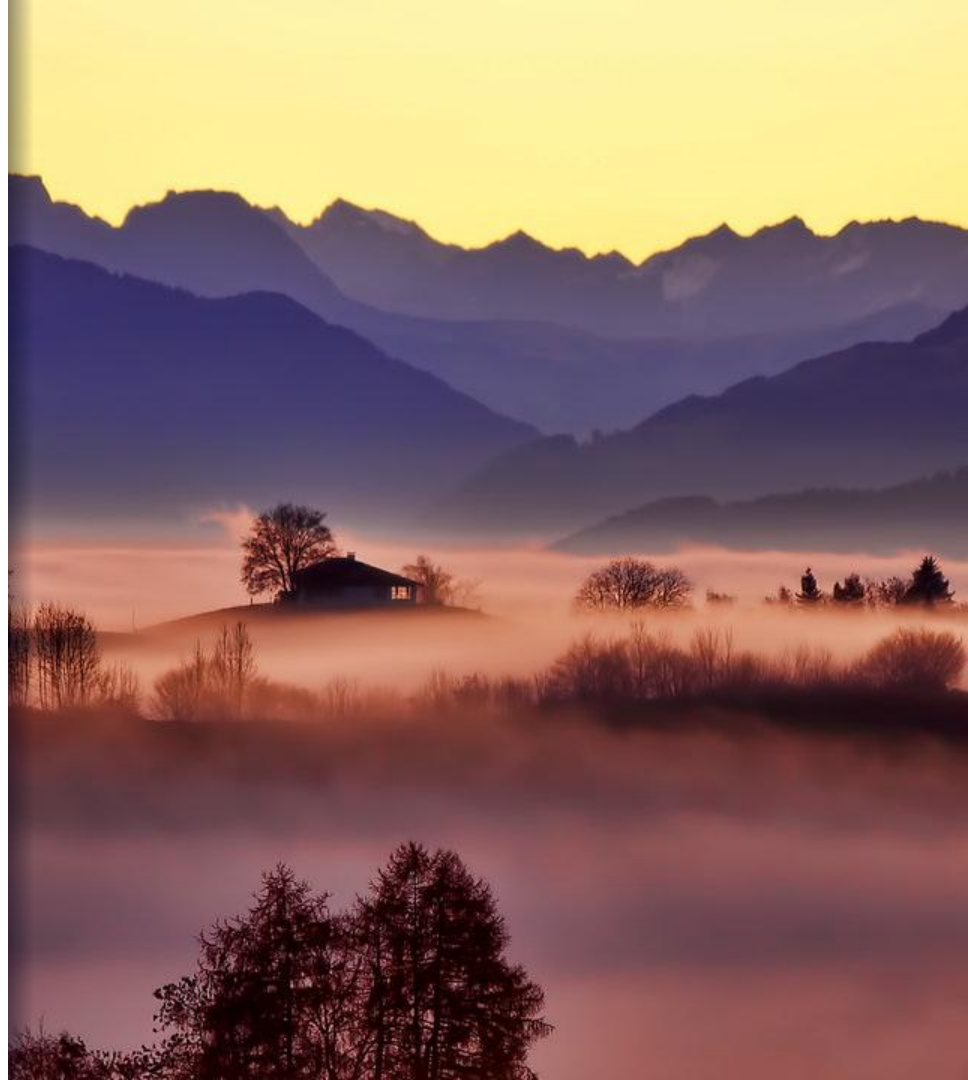| Landmark_Name	Areas_Desi	Address	Neighborho	Full Address1	Latitude	Longitude
Arlington Street Church	Exterior only (Parcel 1227)	355 Boylston Street	Back Bay	355 Boylston Street Back Bay Massachusetts	42.3520023	-71.071527199 99999
James Blake House	Exterior & Interior (parcel 2942)	210 East Cottage Street	Dorchester	210 East Cottage Street Dorchester Massachusetts	42.3196471	-71.0605344
International Trust Company Building	Exterior only (parcel 4662)	45 Milk Street	Boston	45 Milk Street Boston Massachusetts	42.3565597	-71.057575399 99999
Austin Block	Exterior only (Parcel 3686)	90-92 Main Street	Charlestown	90-92 Main Street Charlestown Massachusetts	42.373766	-71.063141
Theodore Parker Unitarian Church	Exterior and windows	1851 Centre Street	West Roxbury	1851 Centre Street West Roxbury Massachusetts	42.2863087	-71.1544552

Let's look at our data

Go to:
github.com/BCDigSchol/coffee-code

- Select *Carto-2017-Fall* and open *exercise-1.md*
- Open *datasets* folder
  - Download datasets and add to Google Sheets to view

Things to consider...

1. What are you trying to visualize?
    a. Attribute & spatial data
    b. Images, historical maps?

2. Where is your data drawn from?
    a. Did you collect your own data or download from a source?
    b. Do you need to georeference your locations?

3. How will you clean or format your data?

4. Which tool(s) are most applicable to your needs?

CSV   Shapefile

Exercise

Let's make a map!

Navigate to **carto.com**

Reflections & Discussion

Credits

Special thanks to all the people who made and released these awesome resources for free:

- Presentation template by SlidesCarnival
- Photographs by Unsplash