Visualizing Temporal Data with Timeline JS

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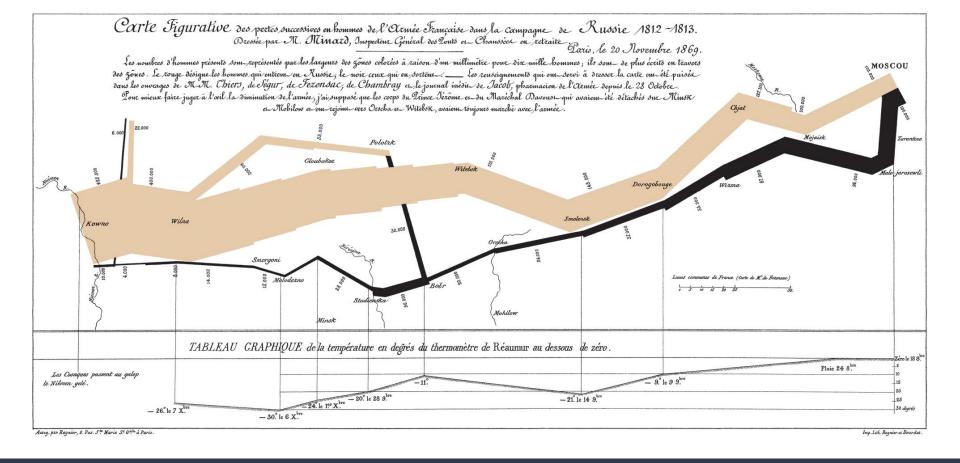
Slides: goo.gl/33Xhi7

What is temporal data?

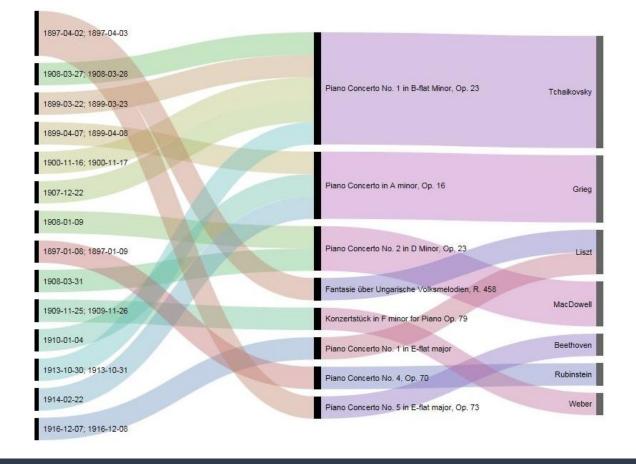
Data that varies over time

How is temporal data visualized?

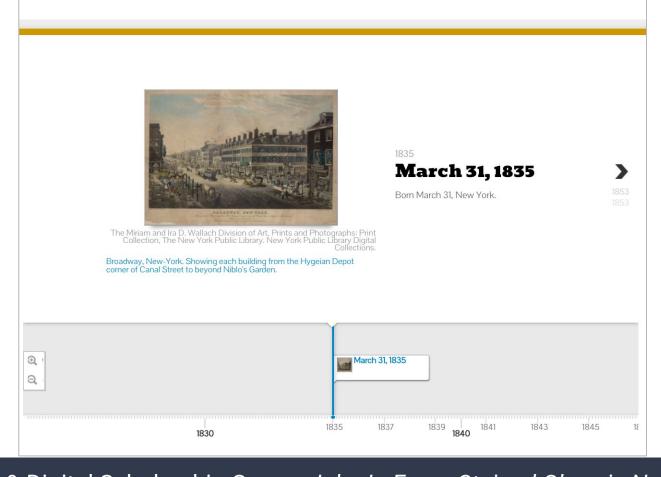
Let's view some examples!



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



Anna Kijas, "Carreño at Carnegie Hall, 1897 – 1916." (2014). https://www.annakijas.com/carreno-at-carnegie-hall-1897-1916/



Jeff Howe & Digital Scholarship Group. *John LaFarge Stained Glass in New England*. (2015). http://library.bc.edu/lafargeglass/exhibits/show/visual/biotimeline

How do I make a temporal visualization?

Let's explore TimelineJS



Timeline

Easy-to-make, beautiful timelines.

Make a Timeline

Navigate to workshop materials

Materials are found on our GitHub repository:

github.com/BCDigSchol/coffee-code/

What kind of data will you need?

- 1. Open template from TimelineJS and let's review the headers
 - a. Year | Month | Day | Time |
 - i. Optional: End Year | End Month, etc.
 - b. Display Date
 - c. Headline
 - d. Text
 - e. Media | Media Credit | Media Caption | Media Thumbnail |
 - f. Type
 - g. Group
 - h. Background

e. Media Credit Caption



Wikimedia Commons

Portrait by Alfred Edward Chalon

a. or b. Display date

DECEMBER 10. 1815 - NOVEMBER 27. 1852

ADA LOVELACE

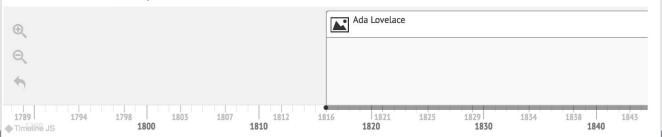
Women have been programming since before it was a thing. Take <u>Ada Lovelace</u>: Daughter of Lord Byron, she's often credited as the first computer programmer. Her work on <u>Charles Babbage's Analytical Engine</u> contains notes of the first machine-implemented algorithm.



c. Headline

d. Text

This slide demonstrates a simple "image" media type.



e. Media Thumbnail

a. Year | Month | Date | Time

Other things to consider

Does your data require cleanup?

Do you have a strong chronological narrative?

Do you want to include media content?

 TimelineJS will pull in content (via URL) from Wikipedia, Vimeo, YouTube, Flickr, SoundCloud, etc.

Do you want to customize your timeline or host it outside of Google?

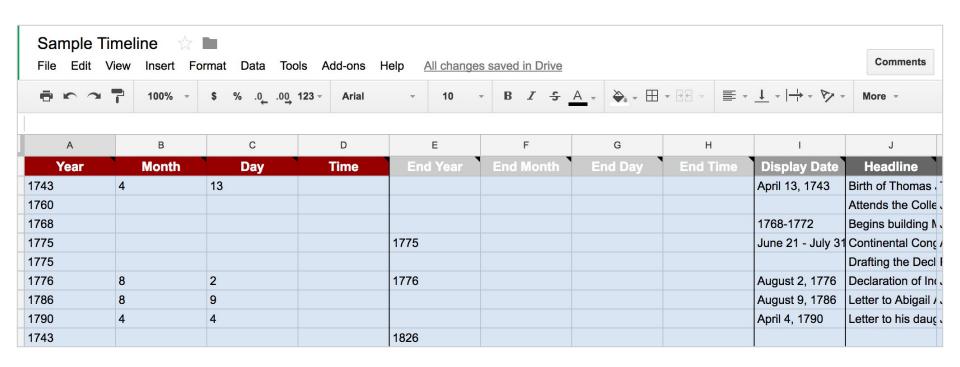
- Format your timeline in JSON and add directly to your site
- Visit https://timeline.knightlab.com/docs/instantiate-a-timeline.html for instructions.

Let's build a timeline

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

Select "Timeline-Workshop"

Use sample data or your own for hands-on exercise



Template with sample data about Thomas Jefferson

Share or publish your timeline

When ready to publish, make sure you share your Google Sheet by selecting "publish to the web."

Copy the URL in your browser's address bar and paste it in the TimelineJS generator.

You are now ready to:

- Share a URL to your timeline
- Embed your timeline in an HTML page

Questions?

Thank You

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