

Data Visualization tools for the Digital Humanities

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Master's Degree in Digital Humanities 2020 - Lesson 3

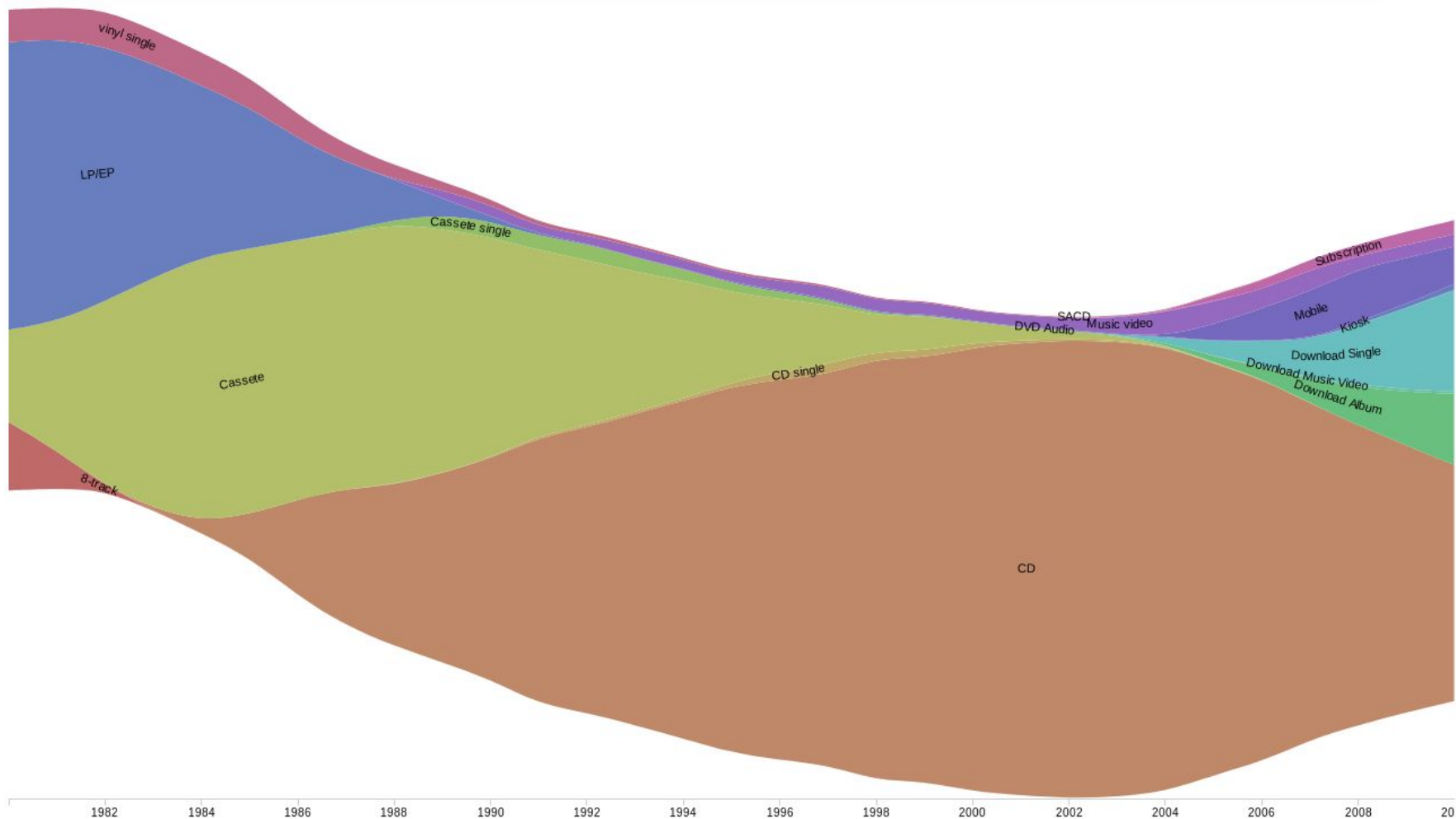
Some datasets

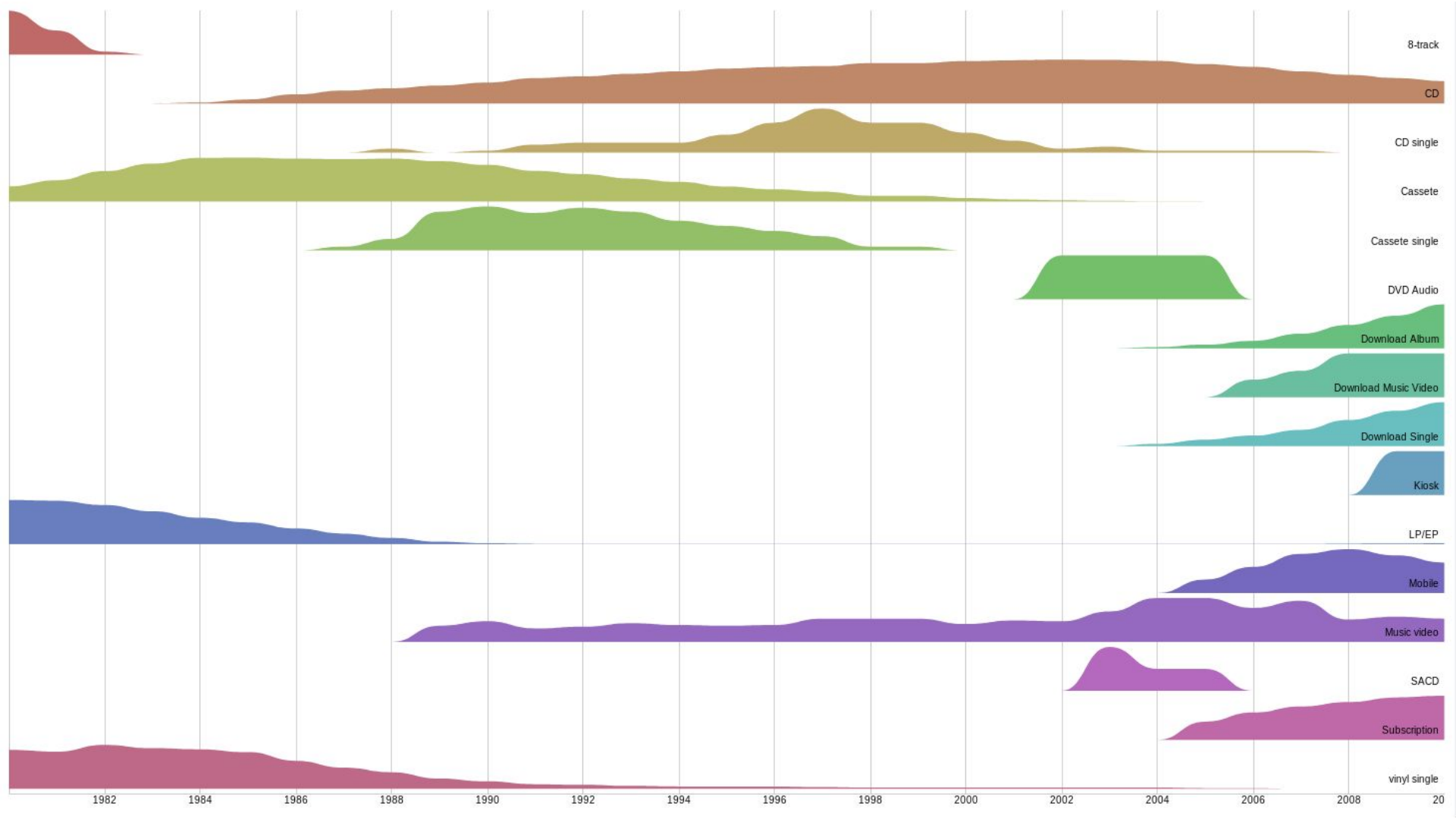
[Official COVID-19 datasets](#)

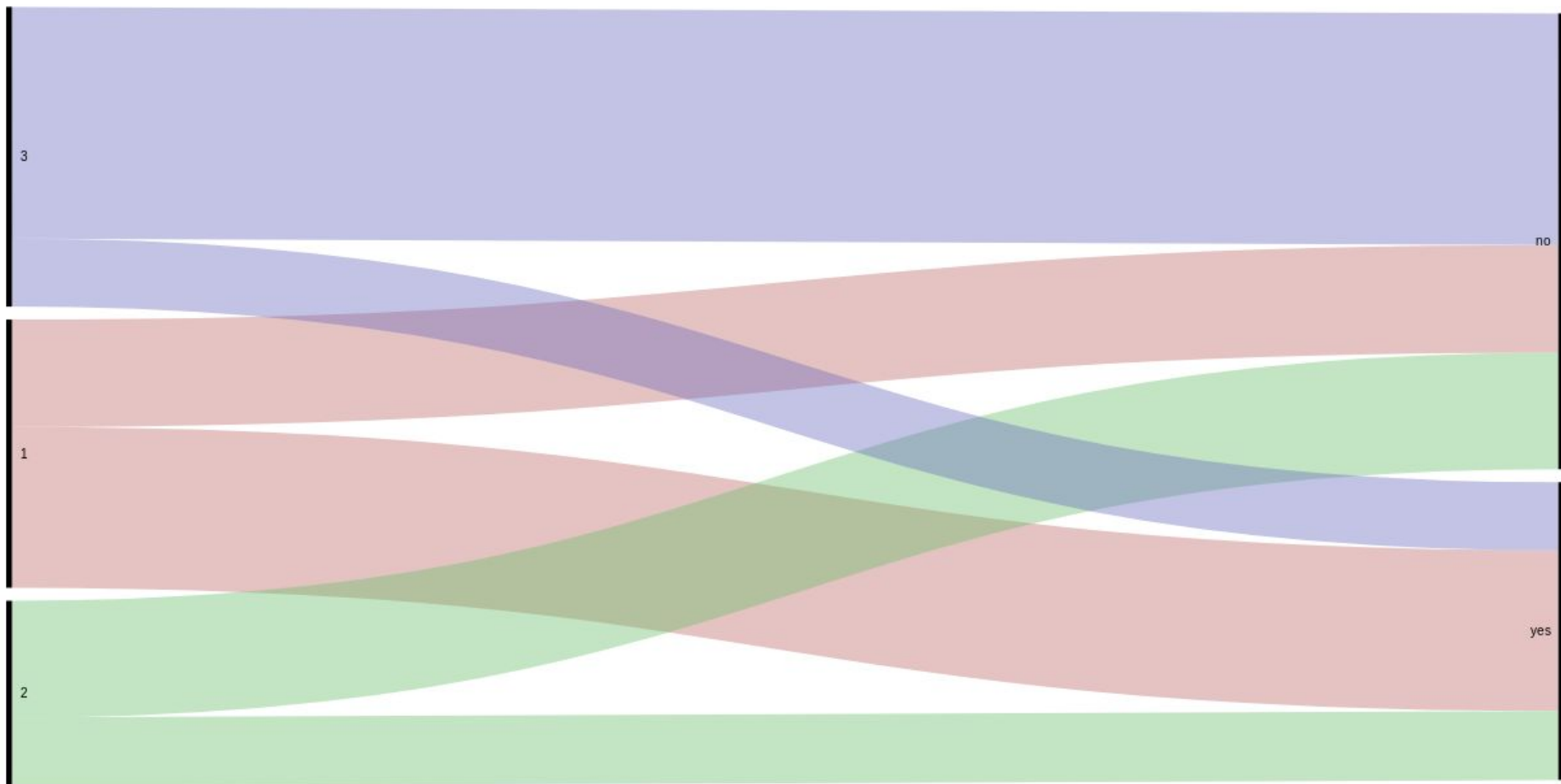
RAW/Graphs

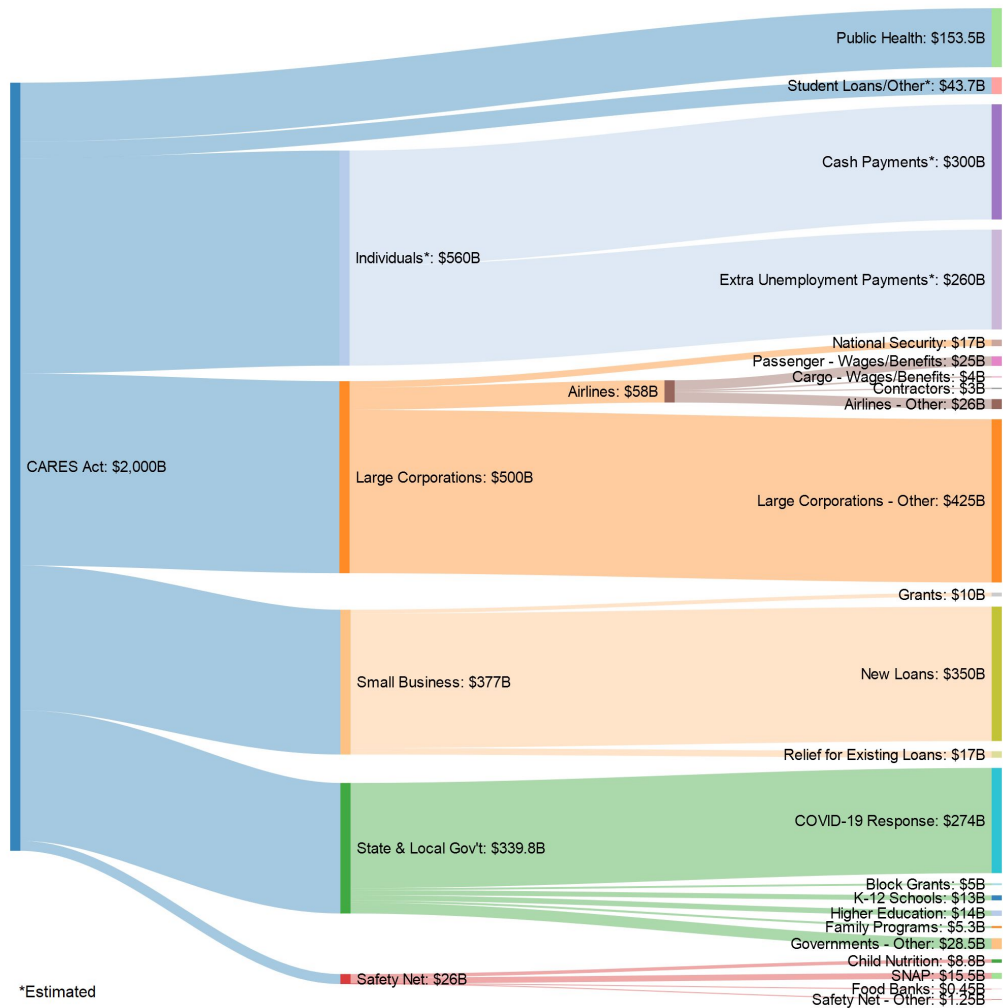
First example: Music Industry

- Let's explore how the distribution of music evolved throughout the years
- $X = \text{Year}$
- $Y = \text{Market Share}$
- Color = Media
- What about a streamgraph? An area graph?









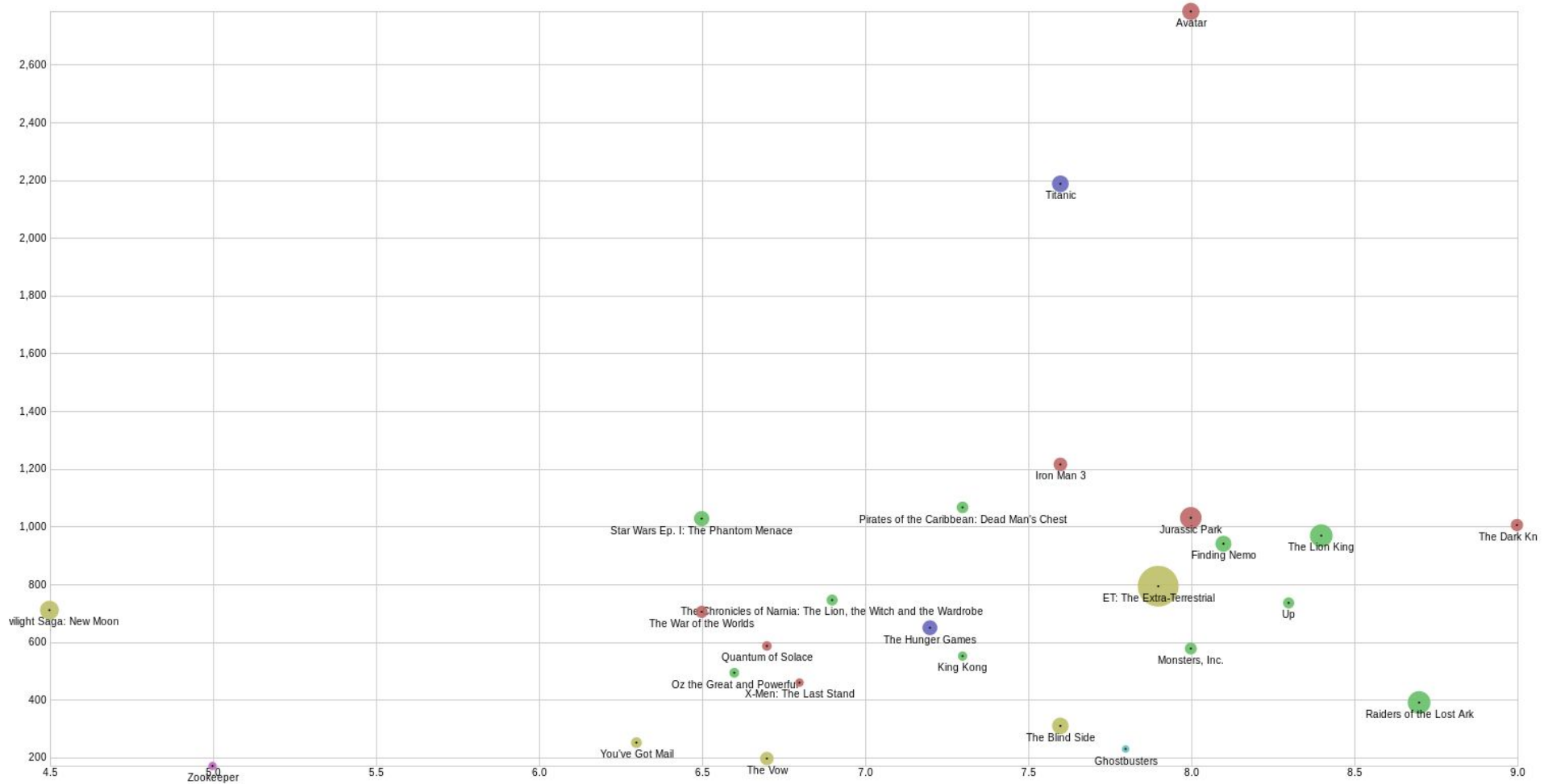
*Estimated

Second example: Titanic's passengers

- Alluvial Diagram
- Let's try and see whether people were saved unconditionally without caring about their class
- Steps: Class, Survival
- Size: Age

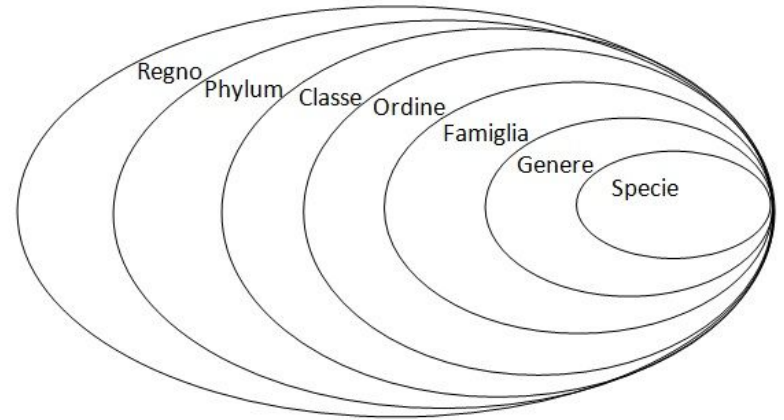
Third example: Movies

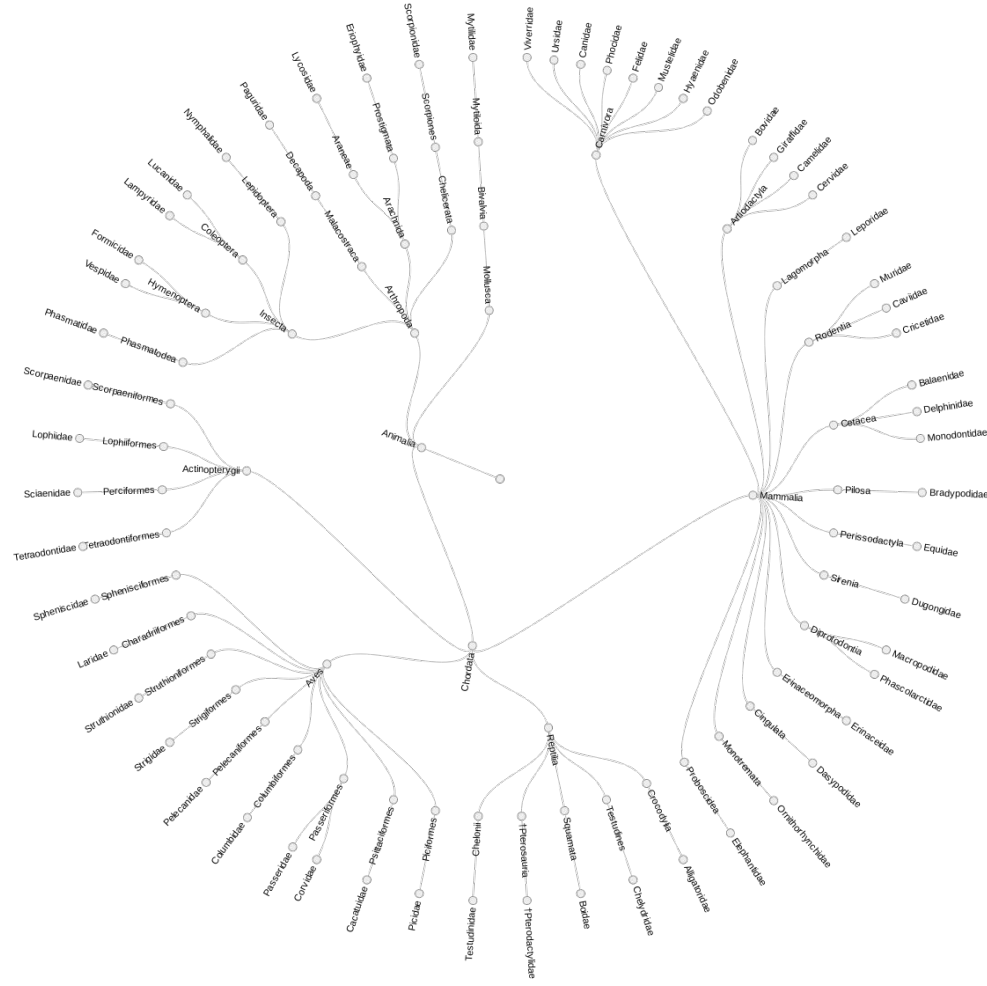
- Scatterplot
- X = IMDB rating
- Y = Box Office
- Size = ROI
- Color = Genre
- Label = Movie



Fourth example: Animal Kingdom

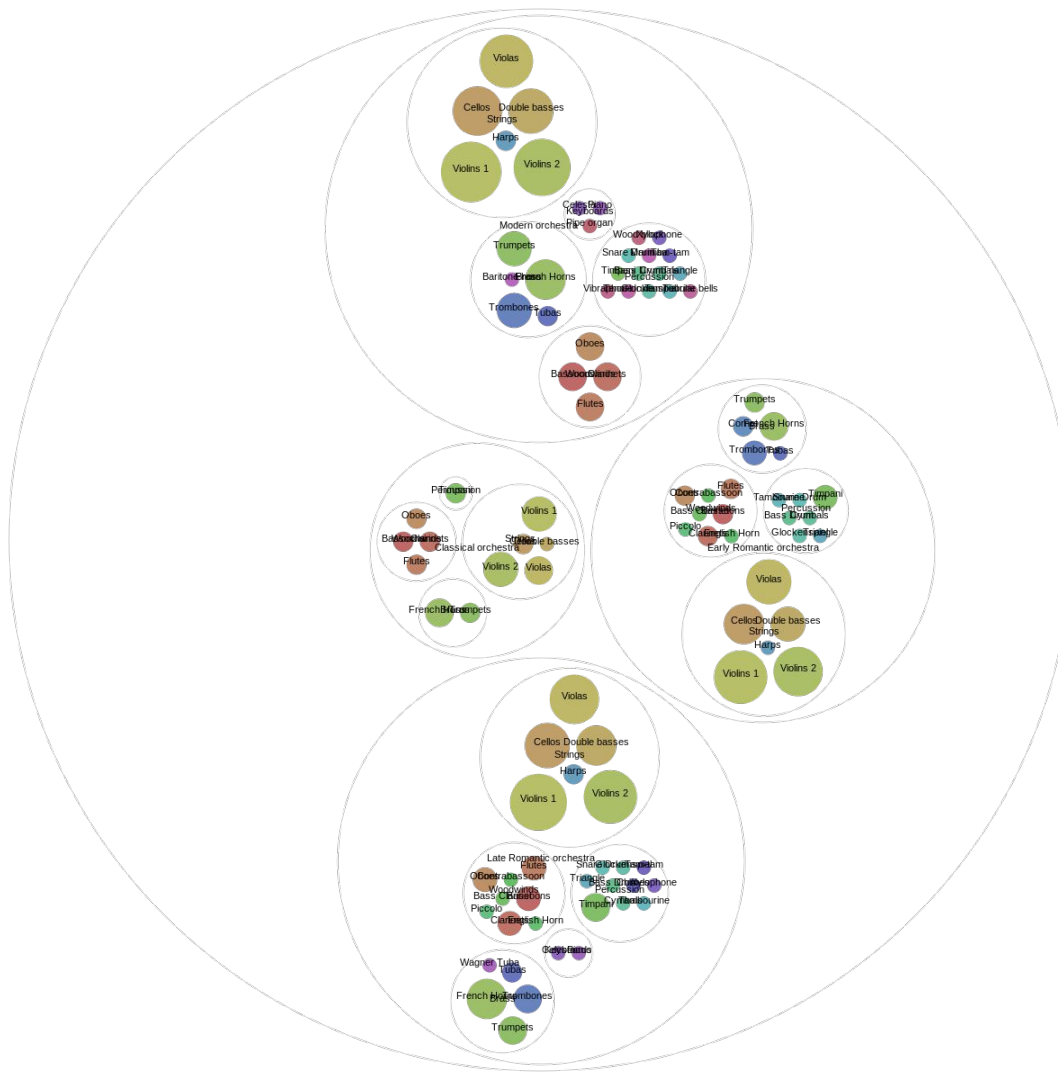
- Circular Dendrogram





Fifth example: Orchestra

- Circle packing
- Hierarchy: Orchestra type, Group, Instrument
- Size: number
- Color: instrument
- Label: instrument



Flourish

Flourish

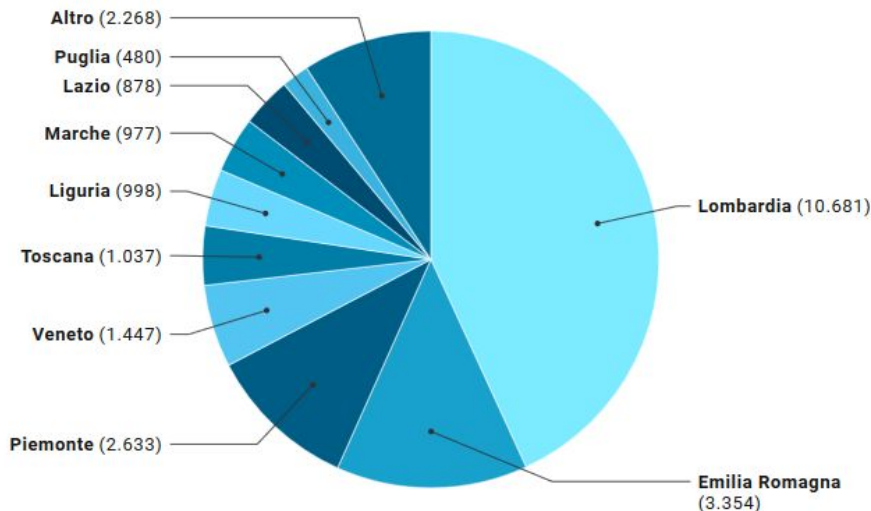
- <https://flourish.studio/>
- Pretty easy to use and configure
- Lots of possibilities
- Result doesn't always look amazing

Datawrapper

Datawrapper

- <https://datawrapper.de/>
- Not super-intuitive
- ...but probably the one that produces the best-looking visualizations!

Ricoverati con sintomi



Wikitude Studio

Introduction

Wikitude Studio is an authoring tool for easily creating **augmented reality experiences without the need for deep technical abilities** or programming skills.

Furthermore, it is used by developers who want to implement an augmented reality application on their own.

Projects

- Image Projects:
 - augment planar surfaces (e.g. 2D pages of a magazine)
 - WTC file
- Object Projects:
 - augment real objects (e.g. 3D statues)
 - WTO file
- A file which contains all information for recognition and tracking is created
- Files are used to create fully functional offline AR experiences

<https://www.wititude.com/external/doc/documentation/studio/targetmanagement.html>

Target images

Image dimensions between 500 and 1000 pixels in each dimension

Squarish aspect ratio (1:1, 3:4, 2:3 up to 16:9). No panoramas

High contrast, large amount of rich textured areas

Evenly distributed textured areas

Crop the most prominent part of the image

Some graphical material and images next to text

Irregular patterns