Visualizing Collections of Internet Archives

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Problem

- Quickly convey small to medium collection of archives
 - Inability to efficiently visualize collections
 - Lack of resource evolution
 - Lack of contextual comparison
 - Lack of statistics surrounding a collection

Goal

- Create a simple way to view collections of archives
 - Tags words providing contextual meaning
 - Mementos archive records
 - Time/date timestamps of archive records
 - Domains dominant resources of archiving
- User driven, clutter free, easy to use and efficient in processing moderate collections

Dataset Description

- We're abstracting the archive collection as a table
- Mementos map to categorical or ordered values
 - Tags Categorical
 - Number of archives and domains Quantitative
 - Domains of use Categorical
 - Time/date of archive Ordered
- The table approach
 - Facilitates ordering
 - Filtering of data

What-Why-How Framework

antity
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System Description

- Node JS and HTML 5 Application
- Google Sheets Collaborative location for archives
- Extensive use of many javascript frameworks
 - D3 Custom charts
 - D3 plus Great bar chart support
 - C3 Great bubble chart support
 - JQuery Google Sheet parsing, slideshow view, navigation
 - Express, Jade

Problems

- Understanding what data is worth keeping
 - Archiver focus removed
- Deciding what framework to use for what chart
 - Some frameworks take away functionality
 - Some frameworks add too much complexity
- Predicting how the users will enter data for parsing
 - i.e. Comma delimited, one record per row vs many

Things Learned

- Use of too many idioms at once can create an overwhelming visualization
 - Split into multiple views; some hidden others visible
- Performance is an important factor to consider for any visualization
- Navigation should be powerful enough to allow transitions between views, but not too distracting

Demo

https://www.youtube.com/watch?v=yPe1t2ktT-Q