Visualizing Collections of Internet Archives

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Motivation

- Current solutions are limiting; small focus Unable to effectively retrieve mementos without knowing exact URI-M
- Archivers are unable to visually experience collections
 - Lack of resource evolution
 - Lack of comparison
 - Lack of statistics
- User driven, clutter free, design for moderate collections
- Archivers desire to visually share collections with each other

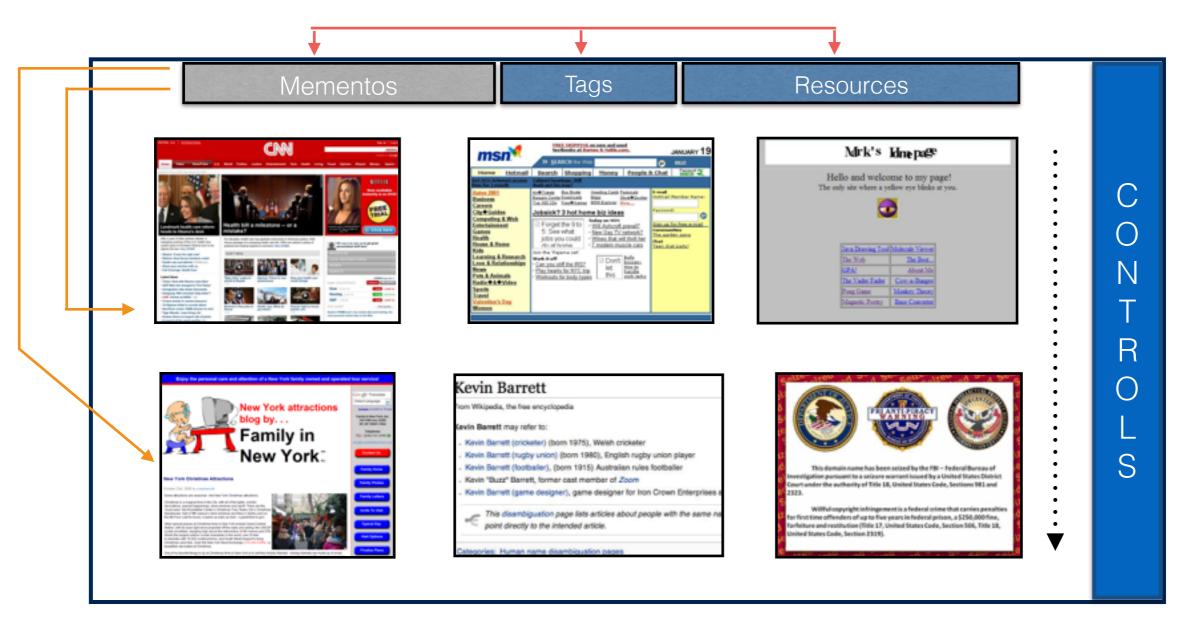
Dataset Description

- We're abstracting the user's archive collection as a table
- Key attribute (URI) that map to categorical or ordered values
 - Archiver Categorical
 - Tags Categorical
 - Number of archives Quantitative
 - URI-M Categorical
 - Time/date Ordered
- The table approach
 - Facilitates ordering
 - Filtering of data

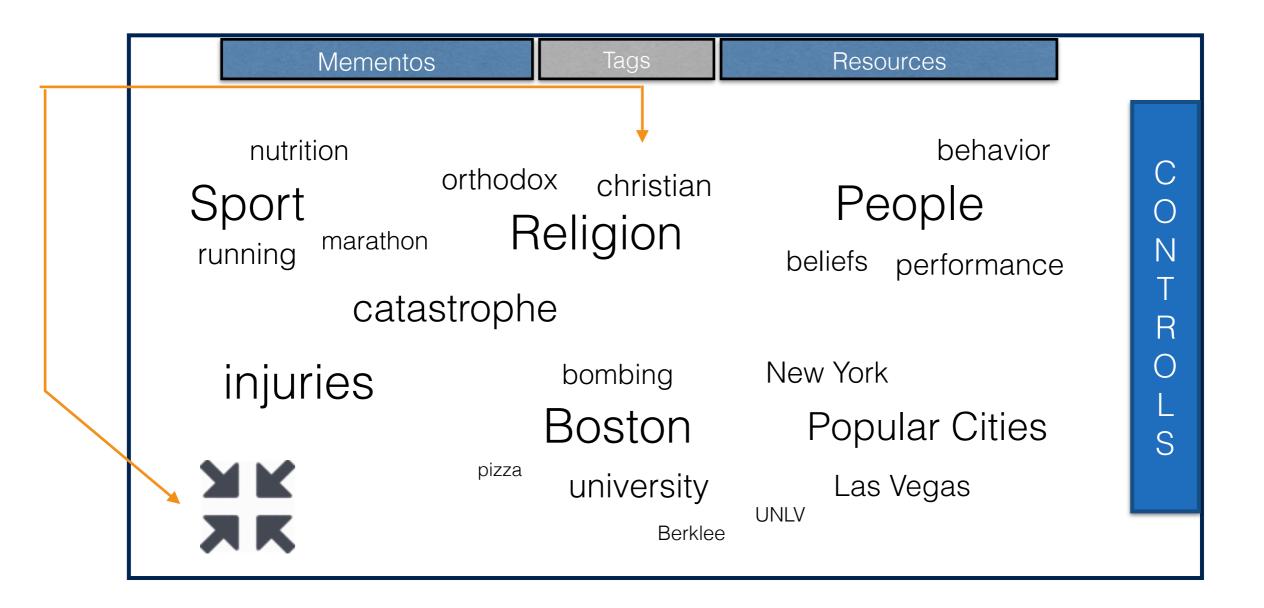
Abstract Tasks

- Lookup, browse, explore and locate can be achieved easily with the table abstraction.
- Users start with an overview first, zoom and filter later, and retrieve details on demand
- Users will be able to identify, compare and summarize different archive records
- Analysis through discovery, presentation, and enjoyment
- Observe interesting characteristics, trends and relationships

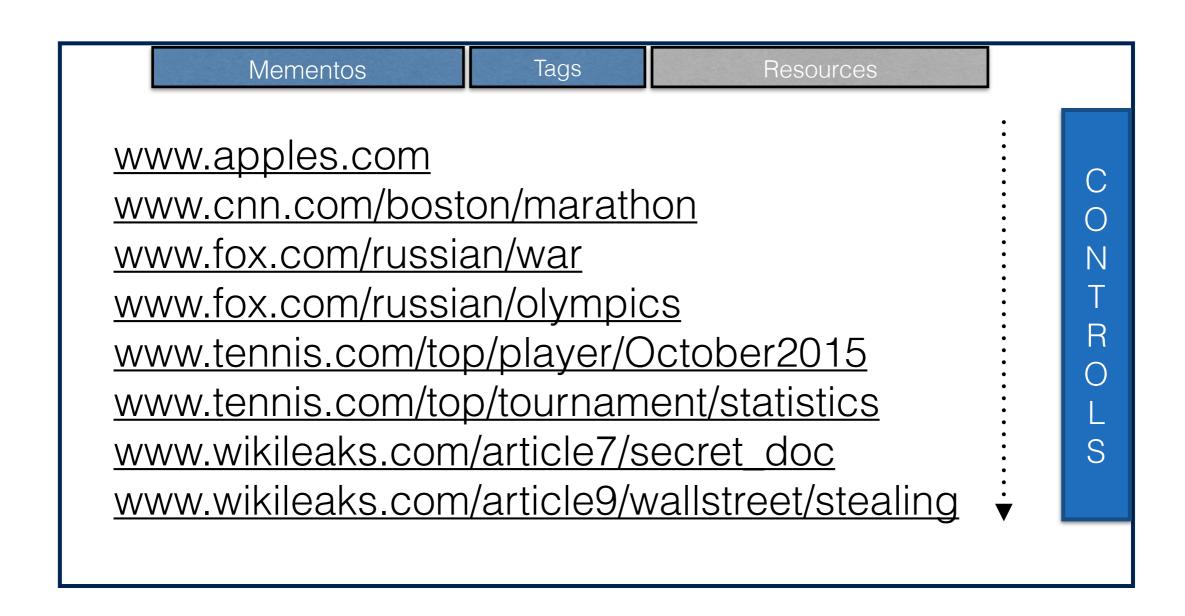
Potential Design



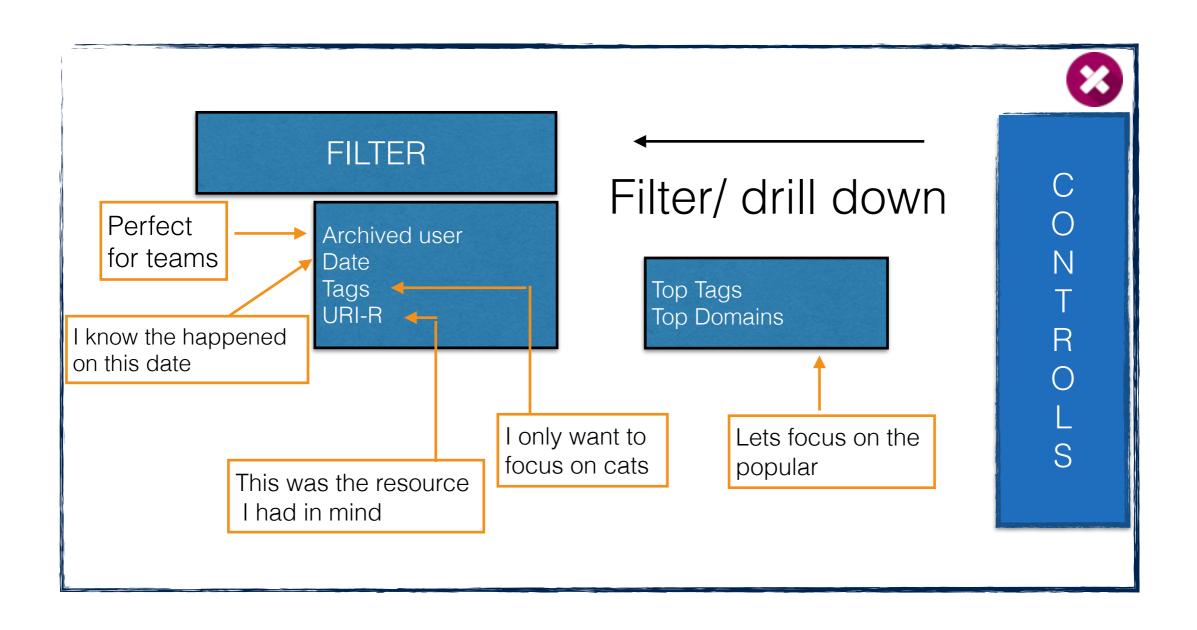
Continued: Potential Design



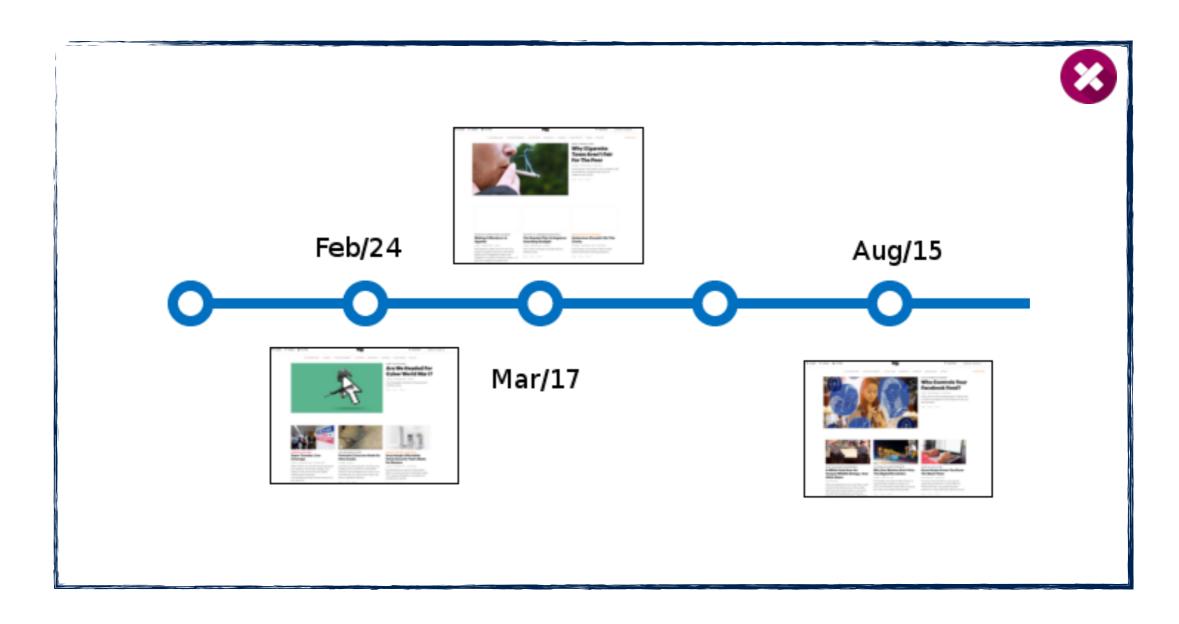
Continued: Potential Design



User Driven Control

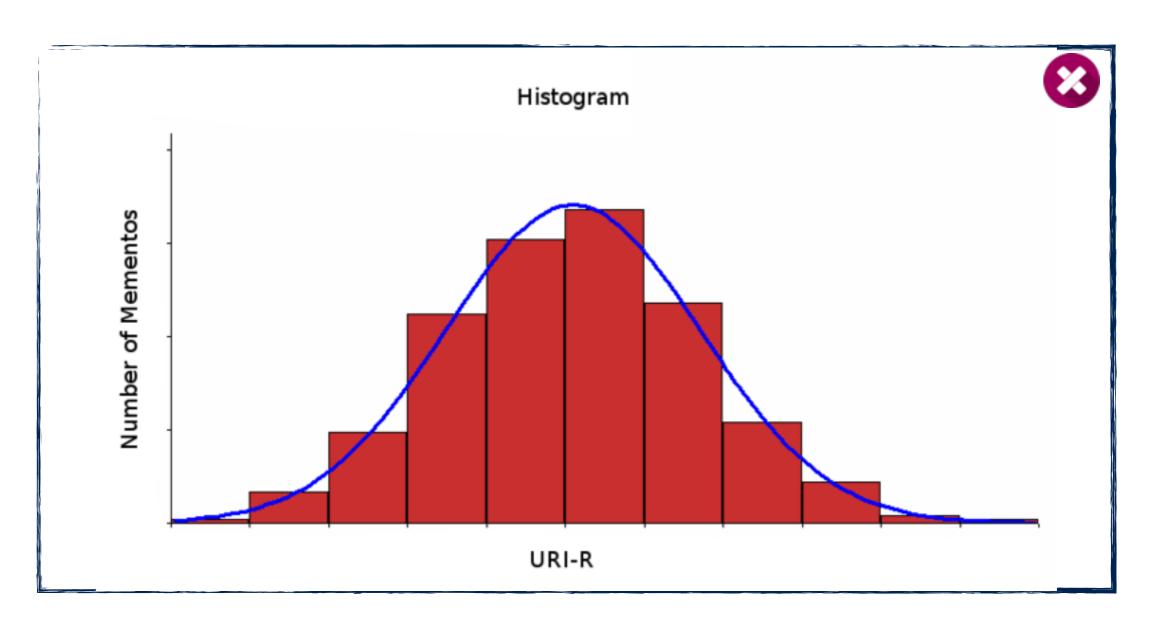


Details



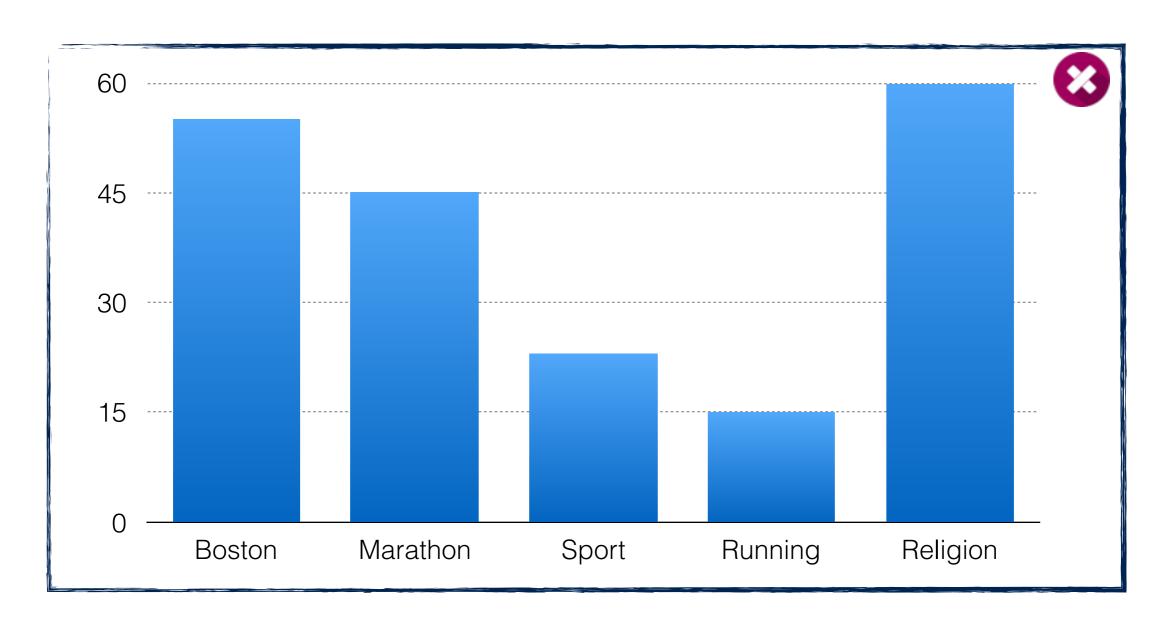
Resource evolution over time

Details: Continued



Counts of mementos per resource

Details: Continued



Show top tags or top domains

Needed Tools

- Mink, WARCreate
 - Create sample archives for local testing
- Wayback Machine (Local/Remote)
 - Get an understanding for look of archives
- WAIL
 - Local archiving and hosting
- PhantomJS (snapshots) and D3

Group Roles

- Entire Group
 - Code Develop a working product
 - Test Ensure visualization accepts dynamic data
 - Survey for feedback
 - Create demo
- Dan & Joel
 - Create final presentation
- John
 - Final presenter of solution

Estimation

- 4-6 weeks to develop
- 1 week to demo and test
- Weekly feedback to ensure satisfaction