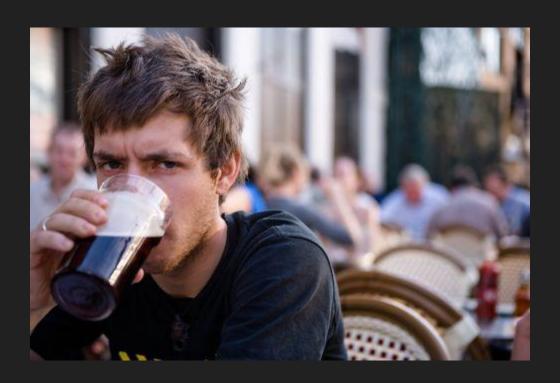
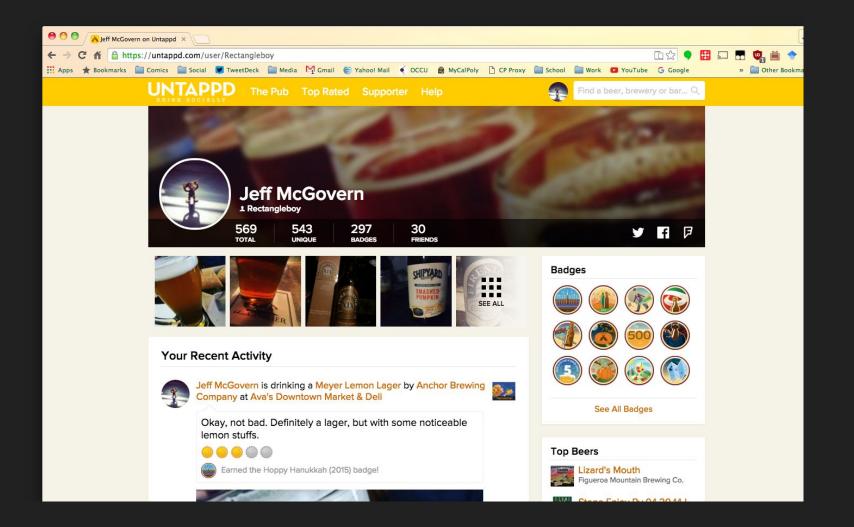
Data Analytics

Jeff McGovern Nicole Martin









The Data

Checkins

- Beer (including brewery)
- Rating (0,.25,.5,...,4.75,5)
- Comment (140 chars)
- Venue (Foursquare-style checkin)
- Picture (many filters)

Users

- List of checkins
- Badges (gamification?)
- Friends

Pubs

Local feed

What beers are people rating the same?

Association Rule Mining

- Transactions
 - Per user-Per rating "Transactions"
 - o e.g. sevares 4.25-star beers
- Dataset
 - 97 Users
 - 719 Transactions
 - 7,951 Distinct Beers
 - o 240,732 Checkins

Gathering The Data

- Slow
 - Limited API Requests
 - Long approval process to get access to data
- Format
 - Retrieval
 - HTTP GET requests
 - Raw
 - JSON
 - Storage
 - MongoDB
 - Querying and Processing
 - Python

Results

```
{Paulaner Gruppe+Paulaner Hefe-Weizen}
{Ballast Point Brewing & Spirits+Victory at Sea}
{Sapporo Breweries+Sapporo Premium Beer}
{Firestone+805 Blonde}
{Firestone+805 Blonde}
{Firestone+805 Blonde}
{Firestone+805 Blonde}
{Firestone+805 Blonde}
{Firestone+805 Blonde}
{Lagunitas+The Waldos' Special Ale}
{Ballast Point Brewing & Spirits+Victory at Sea}
{Deschutes Brewery+Mirror Pond Pale Ale}
```

```
{Deschutes Brewery+Mirror Pond}-{Stella+Stella Artois} {Deschutes Brewery+The Abyss (2013)} {Firestone+805 Blonde}-{Kona +Fire Rock Pale Ale} {Firestone+DBA (DBA)}-{Asahi+Asahi Super Dry} {Firestone+DBA (DBA)}-{Figueroa Mountain+Danish Red} {Firestone+Easy Jack}-{New Belgium+Fat Tire} {Kona +Fire Rock Pale Ale}-{Sapporo+Sapporo Premium} {Lagunitas+IPA}-{New Belgium +Fat Tire} {Russian River+Blind Pig IPA}-{Ballast+Victory at Sea} {Russian River+Blind Pig IPA}- {Lagunitas+Waldos'Special} {Stella+Stella Artois}-{Paulaner+Paulaner Hefe-Weizen}
```

Difficulties

- API Restrictions
- Many many beers
- Not very many users



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News

All News

November 2015 Newsletter, Volume 97

Published: Sun 06 Dec 2015 12:20PM EST Comments: 0

The 2015 election is over! After a slight technical hiccup with the voting software, the election went off without a hitch, and voters chose two new Board Members from a choice of an unprecedented six candidates on the ballot! Congratulations to our new Directors, Atiya Hakeem and Matty Bowers, who began their terms on December 1st! Their victory was originally announced in a public post, 2015 Election Results. We wish them the best in their upcoming terms.

Read more...

The Wolf and Hound Archive is Coming to the AO3
Published: Fri 27 Nov 2015 12:21PM FST Comments: 55

A fan-created, fan-run, non-profit, non-commercial archive for transformative fanworks, like fanfiction, fanart, fan videos, and podfic

19975 fandoms | 718800 users | 1977694 works

The Archive of Our Own is a project of the Organization for Transformative Works.

With an AO3 account, you can:

- · Share your own fanworks
- · Get notified when your favorite works, series, or users update
- Participate in challenges
- Keep track of works you've visited and works you want to check out later

While the site is in beta, you can join by getting an invitation from another user or from our automated invite queue. All fans and fanworks are welcome!

Get Invited!

Tweets

OTW Tweets Tweets from a list by otw_status The latest updates about the OTW by its committees and projects.

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Fanlore Wiki @fanlore_news

14h

Analytical Questions

- Do creator's always tag the characters involved in a relationship tag?
- Do characters not in the target shows occur frequently enough to have association rules?
 - Do crossovers occur frequently within the fandom?
- What association rules exist involving freeform tags?
 - Often correspond to "tropes" or fanfic conventions (i.e. using the tag "AU" for works set in alternate universe settings)
 - Freeform tags are not indexed by Archive of Our Own until they reach a certain usage level.
 - Creator's are encouraged to utilize freeform tags similarly to how users will talk to themselves on Tumblr

Data Set - All Marvel TV



All Marvel TV Overview

Series tags counts:

- Agent Carter 2,434 works
- Agents of S.H.I.E.L.D. 13,757 works
- Daredevil (TV) 2,895 works
- Jessica Jones 193 works
- The Defenders (Marvel TV) 4 works

When you deduplicate for crossovers, this comes out to **19,019 works** total.



Relationship and Character tag associations



Surprisingly a relationship tag did not guarantee that the characters would be tagged too. For example, given a min_sup 0.05 and min_conf 0.9:

- Peggy Carter/Angie Martinelli" → "Peggy Carter" "Angie Martinelli"
 - support 0.064 confidence 0.937
- "Phil Coulson/Melinda May" → "Phil Coulson"
 - o support 0.060 confidence 0.951
- "Leo Fitz & Jemma Simmons" → "Leo Fitz" "Jemma Simmons"
 - o support 0.065 confidence 0.963

It was also interesting to find cases where a character went to a relationship tag

- "Skye (Agents of S.H.I.E.L.D.)" "Skye/Grant Ward" → "Grant Ward"
 - support 0.057 confidence 0.985

Frequent item sets were pretty great though!

People really want Marvel movie characters to interact with the TV characters:

- Clint Barton 0.11251 support
- Steve Rogers 0.10053 support
- Natasha Romanov 0.09490 support
- James Bucky Barnes 0.05941 support

The freeform tags that were frequent were opposites:

- Fluff 0.11288 support
- Angst 0.08864 support

