



FriendView

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Review of Goals

- Mine the photo tag relationship in Facebook for clusters.
- Use these clusters with additional information in comments, album titles, and photo captions to provide a new way of exploring photos and relationships.

Why Photos?



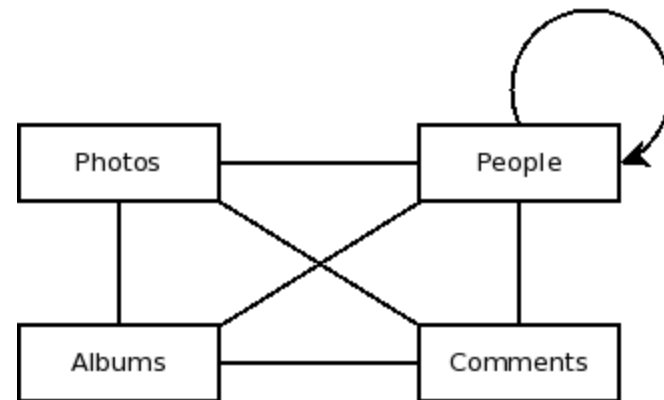
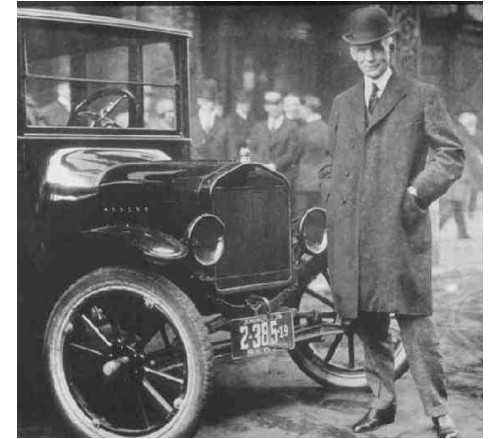
- Unlike general Friend relationship, photos capture a significant amount of context (a picture is worth a thousand words).
 - Typically implies shared presence in space/time.
 - Could be associated with a place or an event.
 - Repeated occurrences can be attributed to a group membership.

There are exceptions...



Original Plan

- Get Facebook API key
- Get Google AppEngine Account
- ...
- Profit



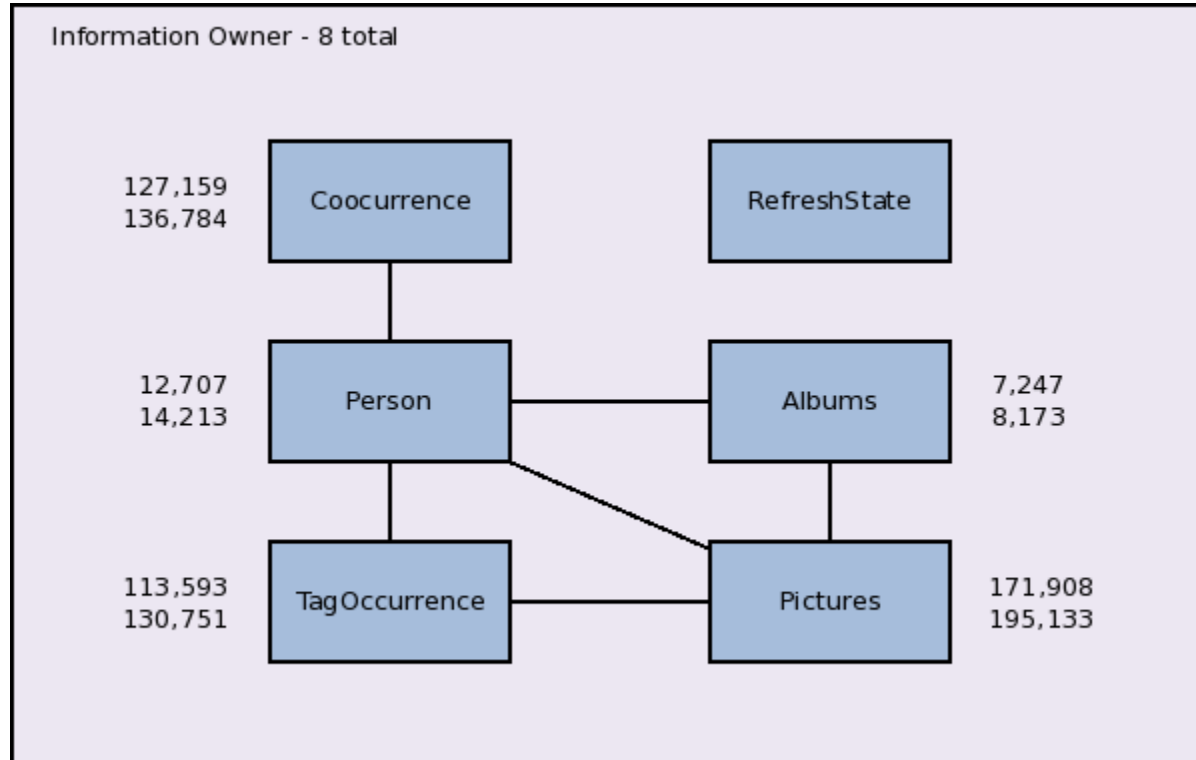
Well...

- The latency from Facebook troublesome.
 - They do fail after 45 seconds...
- Google caps at 30 seconds.
 - Yay! Dreamhost (profit -= ...)
- Facebook silent limits.
- We're not Web 2.0 AJAX ninjas...



Edward Murphy records another slice of toast landing butter side down...

Expanded Model



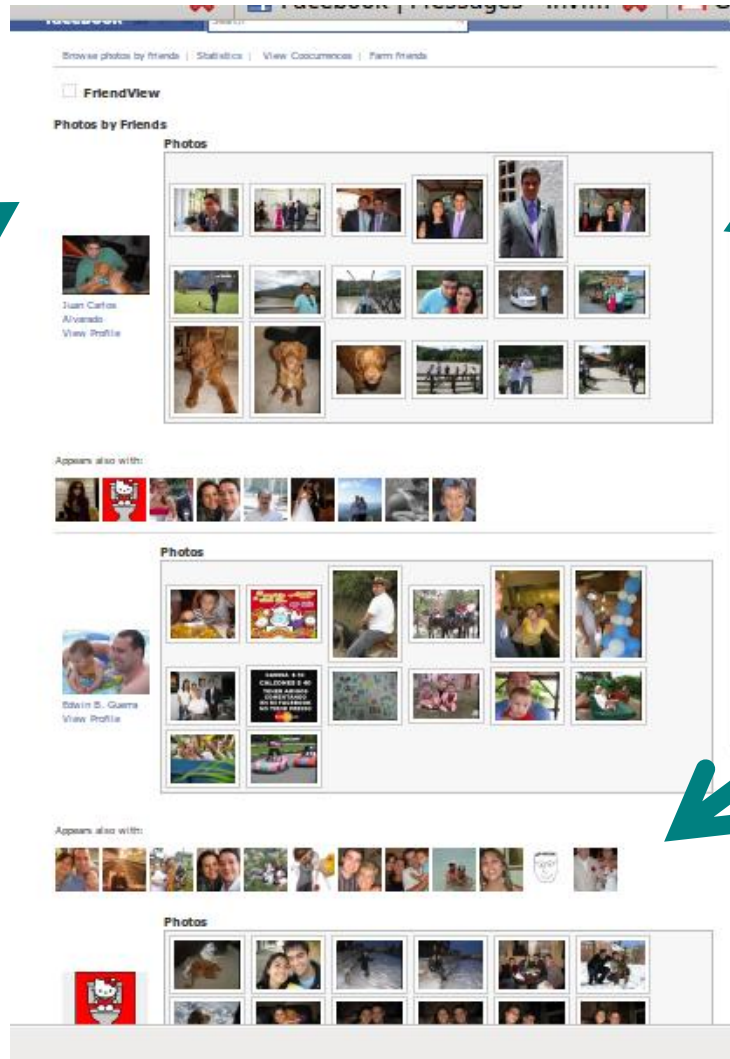
Extended pyfacebook for multiquery

- **queries['tags']** = 'SELECT pid, subject, created, text FROM photo_tag WHERE subject IN (%s);' % uid_str
- **queries['aids']** = 'SELECT aid, owner, name, description, created, size FROM album WHERE owner IN (%s);' % uid_str
- **queries['pids']** = 'SELECT pid, aid, owner, link FROM photo WHERE aid IN (%s);' % aid_str
- **queries['more_tags']** = 'SELECT pid, subject, created, text FROM photo_tag WHERE pid IN (SELECT pid FROM #pids);'
- **queries['more_names']** = 'SELECT uid, name FROM user WHERE uid IN (SELECT subject FROM #more_tags);'

DB's can be nice...

```
SELECT
    ta.subject, ta.text, tb.subject,
    tb.text, COUNT(*)
FROM
    friendview_tagoccurrence ta JOIN
        (friendview_tagoccurrence tb)
    ON (ta.pid = tb.pid AND
        ta.subject != tb.subject AND
        ta.owner = tb.owner)
WHERE
    ta.owner = %s AND ta.subject != '' AND
    tb.subject != ''
GROUP BY ta.subject, tb.subject;
```

Photos by Friend



Rank friends by the number of co-occurrences



Overview of the photos of each friend



Recommend people that appear also with that person

Friend's Details

The screenshot shows the Facebook interface for a 'FriendView' page. At the top, the Facebook logo and search bar are visible. Below the navigation bar, there are links for 'Browse photos by friends', 'Statistics', 'View Cooccurrences', and 'Farm friends'. The main content area is titled 'FriendView' and 'Photos by Friend Ivette Mercado'. It features a large profile picture of a woman. Below the profile picture is a grid of 17 smaller photos. At the bottom of the page, there is a section titled 'Appears also with:' followed by a horizontal row of small profile pictures and associated numbers: 10, 5, 5, 4, 4, 4, 3, 2, 1, 1, 1, 1.



Link to the profile



Photos of this friend



Ranked list of people that co occurs with this friend

Photo Details



[Browse photos by friends](#) | [Statistics](#) | [View Cooccurrences](#) | [Farm friends](#)

FriendView

Photo details



Link to the Facebook's photo page



All the people that co occurs in this photo



See this photo in Facebook

People in this photo:



Current Solutions

The image shows a screenshot of a web browser displaying the Facebook photo browser interface. The browser's address bar shows the URL <https://www.facebook.com/#!/?sk=media>. The browser's menu bar includes File, Edit, View, History, Bookmarks, Tools, and Help. The browser's toolbar shows various icons for navigation and utility. The browser's tabs include HP Official S..., Inspiron 560 D..., HP Official S..., CMSC 818G: I..., Milestone #3 I..., 401 Authoriza..., CMSC 818G (...), Windows Live ..., and Facebook ...

The Facebook interface features a blue header with the Facebook logo, a search bar, and navigation links for Home, Profile, and Account. The main content area is titled "Photos" and includes buttons for "+ Upload Photos" and "+ Upload Video". The photos are displayed in a grid format, with each photo accompanied by the name of the user who uploaded it. The photos include:

- Alejandro Echeverry
- Diego Naranjo
- Ruben Dario Jimenez Chisica
- panas by Omar Eduardo Carvajal Guerra
- Natalia Londoño
- Haas y Miret by Kiren Miret
- Wilson Gomez
- Laura Osorio Duque
- Paula Andrea Marin
- Camilo Montes
- Andres Felipe Castano Moreno
- Paulis Velez

The right sidebar contains "Suggestions" for adding friends or becoming fans, including Sonia Rios (30 mutual friends) and old parr (You are a fan of PIRRY).

The bottom of the browser shows a "Done" button and a Zotero icon.

Personal View

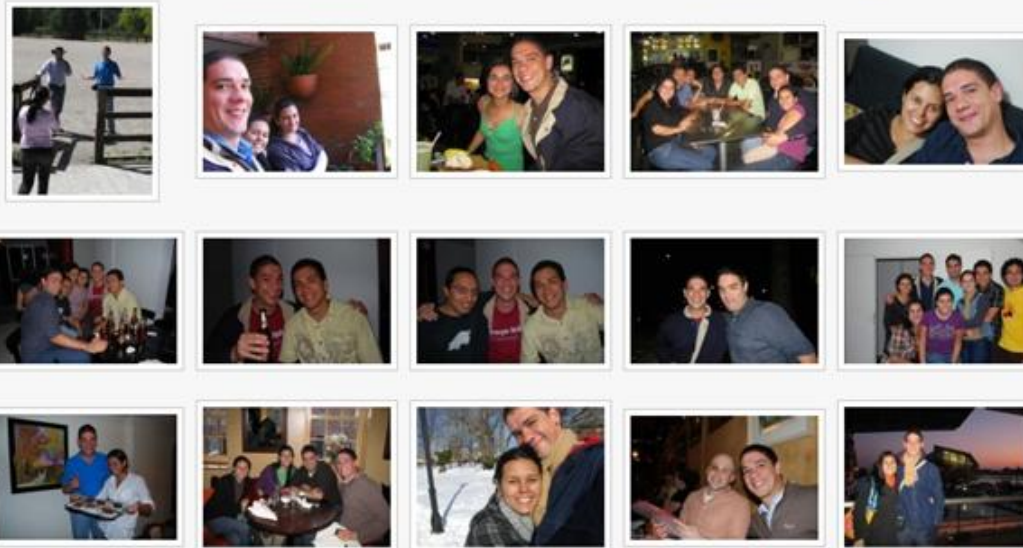
Wall Info Photos Boxes Books Notes +

+ Create a Photo Album

Photos of John Alexis 462 photos

View Comments

1 2 3 4 5 Next Last



John Alexis's Albums 146 Photo Albums

View Comments | Album Privacy

1 2 3 4 5 Next Last



Create an Ad

Psych Programs in DC



Attend a Thursday, March 11, 7PM info session to learn about Marymount's Counseling and Forensic Psychology graduate programs.

Like

100% Online M.Ed. from UC



The University of Cincinnati offers a Master of Education in Educational Leadership. Download your Free Brochure!

Like

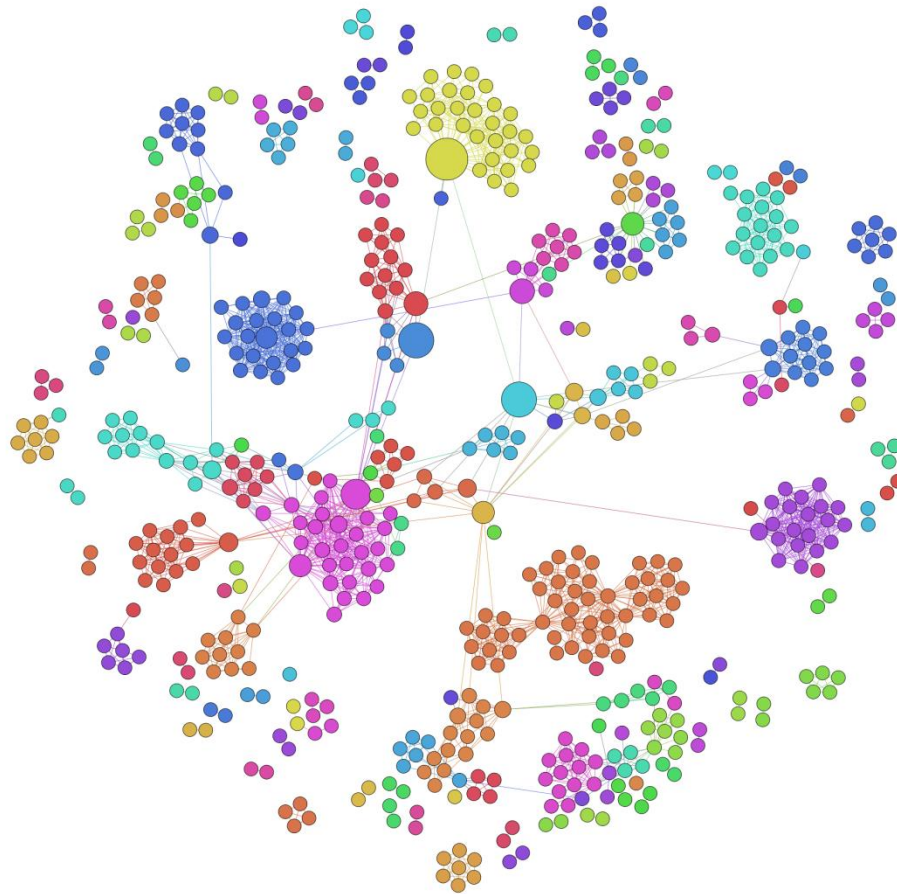
Everyone Plays Mafia Wars



With over 25 million players, your friends are likely playing already. Play Mafia Wars on Zynga, now. It's

Chat (27)

Gephi



Future Work

- Implement clustering algorithms
- Show the graph
- Migrate back to Google App Engine
- Improve the performance

Thanks!

Questions?