Summarization of Online Image Collections via Implicit Feedback

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Interaction

- The TagMaps algorithm* extracts and displays representative tags for the current map area using Flickr geotagged images
- For each tag and location, Flickr photographs with the selected tag from that locations are displayed in a random, overlapping fashion
- Can user interaction with the tags and images be used to determine the best images for a tag?

* Shane Ahern, Mor Naaman, Rahul Nair, Jeannie Yang. World Explorer: Visualizing Aggregate Data from Unstructured Text in Geo-Referenced Collections. In proceedings, JCDL 07, June 2007, Vancouver, British Columbia, Canada.

Implicit Feedback

When enough data is available, implicit user feedback can hint at the "most representative" images for each tag and location.

Most "examined" images

Golden Gate Bridge

Japan Town

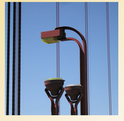
Golden Gate Bridge

Japan Town

Most "closed" images

Golden Gate Bridge

Alcatraz


Golden Gate Bridge

Palace of Fine Arts

- Users are more likely to enlarge photos that are representative of the tag in question.
- Photos of people and non-representative images are usually** not enlarged.
- Users are more likely to close photos of people and other non-representative photos.
- Photos of performers, such as a singer at a concert, are equally likely to be enlarged or closed, indicating that there is a split among users' interests.

****Don't look here**

For some reason, the most examined photos often included women in bathing suits, even when the photos were not necessarily relevant to the location or the tag.

Evanston

Goa