

Future Social Experiences Labs

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Realtime Social Data

- August 2009: Twitter data: Public status messages
 - 12 million updates a day (20x our estimates)
 - Massive growth every month

- October 2010: Twitter data + Facebook public data
 - 500 million updates a day
 - 15,000 storage requests a second
- 2 guys + Windows Azure + Bing

Link Expansion and Analysis

- Short Url expansion
- Content type
- Language
- Thumbnail
- Images
- Adult score
- Spam score
- (API aware)

Queen - Who Wants To Live Forever (High Quality) - YouTube
Who wants to live forever when love must die? Who waits forever anyway? Enjoy this single!
www.youtube.com/watch?v=5L8-FTvsVxs
Queen - Who Wants to Live Forever (HI... YouTube 4:55

dannysullivan Danny Sullivan interesting the auto-tune segment sparked more tweets than anything else at the #oscars — including winners http://tcm.ch/eRBkbl INTERCOLOR AND CONTROL OF THE STATE OF THE S

agment sparked more tweets than anything else st the foocars — including winners http://tcm.ch/eRBkbl 55 minutes agm The Oscars, On Twitter [Infographic]

The Oscars, On Twitter
[Infographic]
Twitter has changed the way we watch
televistan. Say what you will about the
83rd Annual Oscars (and thus far

Link Expansion

Metadata Extraction

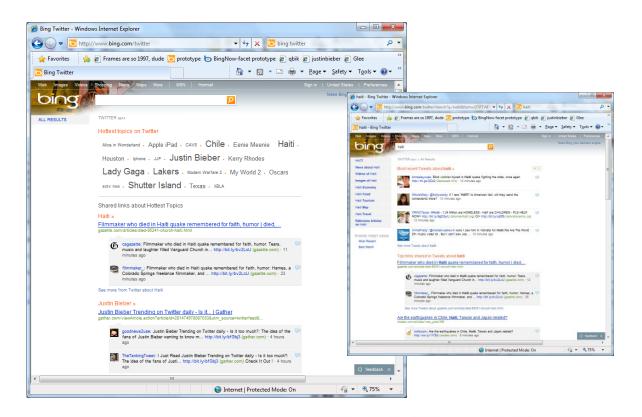
http://trn.ch/eRBkbl
←http://someplace.com





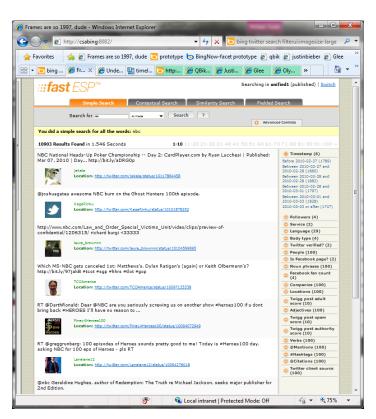
Social Search

- Bing Now
 - Twitter
 - Facebook
- Bing Answers
- Indexing urls
- •



...thanks FAST!

- Language detection
- Parts of speech
 - Nouns, verbs
 - Questions
- Entity extraction
 - People
 - Places
 - Topics
- Custom filters



Social Apps and Components





Connect





Personalize

Profile Service

- Multiple Logins
- Single Profile Customizable UI
- Simple REST access



Choose a service to sign in with:

Recommendation Service



iSearch

- Javascript based search library
- Normalizes all sources to a common schema
- Download only the sources you use
- Easily extended to support new sources
- Support RX.js async observable pattern
- Sources include RSS, OData, OpenGraph

URL Analysis

- Classification: adult, article audio bookmark, comment, event, file, folder, group, language, list, note, person, photo, album, place, playlist, product, review, service, status, video
- Extract meta-data from OpenGraph and MicroFormats
- Handles URL shorteners like bit.ly
- Generates web page thumbnails
- · Extract media
- Many Sources: Facebook, YouTube, Bing, Google Maps, etc.





Distributed Search

- REST API Store & Retrieve JSON
- **Optional Schema with validation**
- · Full-text and relational search h



eSearch: Embedded Search & Storage Library

- Robust, Pluggable Item Storage 14 simple data types and vectors
- Relational: $<, \leq, =, >, \geq, bits$
- Text: contains, near, phrase
- Ranking: explicit, hits and IR
- Multi-level sorting

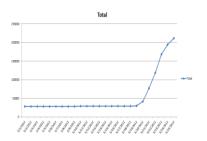
Authoring. Montage.



So.cl

Use search to express & share your ideas

- So.cl
 - Integrates Search & Social
 - Data reuse
 - Bing API's
 - So.cl Public data & API's
- About 300,000 users







soci People Interests Post Ap







Springtime in the Southwest



Dan Marshall I love the springtime in the



Dan Marshall You always post the most beautiful images. I love the southwest. 2 min ago



Tom Jones I love that area too 2 min ago

27 comments





Crazy Cats



Dan Marshall Searched 2 min ago



Carrots



Dan Marshall Nothing like the orange bits

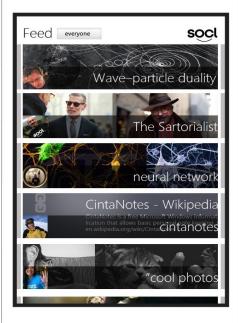


Dan Marshall You always post the most beautiful



Tom Jones I love that area too 2 min ago

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Usage: Creating, Socializing, Browsing

Factor Analysis for Associated Behaviors:

Three types of usage – creating socializing to

Three types of	usage –	creating,	socializing,	browsing	
Component Matrix ^a					

		Component		
Type:	Creators	Socialites	Browsers	
% Variance:	32%	12%	9%	
Created post	.86	.17	.10	
Invited	.01	16	.63	
Followed	03	.10	.37	
Added item to post	.83	.08	06	
Searched	.81	.03	.17	
Commented	.36	.64	.09	
Liked post	.15	.58	.32	
Liked comment	.13	.80	.06	
Messaged	09	.50	08	
Viewed person	.22	.47	.48	
Navigated to All	.51	.37	.53	
Joined party	.17	.09	.68	

Factors about equally predict if user comes back

Regression Coefficents

	Beta	t	Sig
Creating	.14	5.28	.000
Socializing	.07	2.61	.000
Browsing	.19	7.20	.000

Browsing stronger predictor of overall activity level

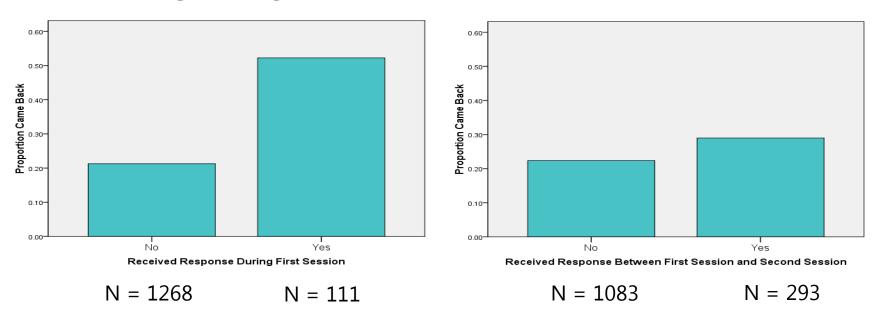
Regression Coefficients

-			
	Beta	t	Sig
Creating	0.20	7.89	0.00
Socializing	0.17	6.58	0.00
Browsing	0.29	9.07	0.00



Usage: Return Visits

 Social responses inspire people to return to site, especially if occurring during first session



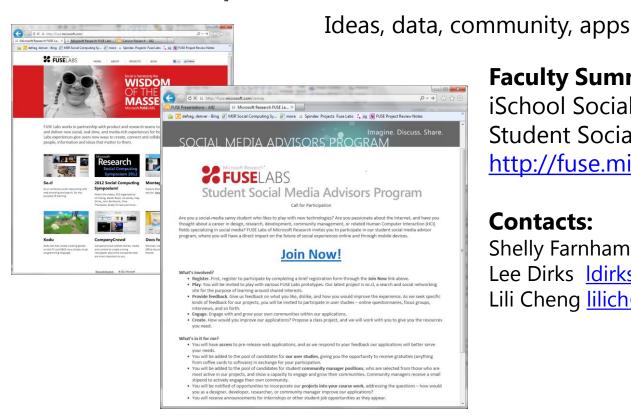
Social responses to user: following, commenting, liking post, liking comment, riffing



Lessons Learned

- Social networking feed:
 - Appropriate "flow of data" primary part of social user experience
 - Critical mass of activity & "good users" define site norms and personality
 - Discovery of new people and topics a person cares about key
- Social across "boundaries":
 - Across identities:
 - Across time: interaction history creates rich profile over time
 - Reuse of public data

http://fuse.microsoft.com/ssmap



Faculty Summit Day 3!

iSchool Social Media Research Student Social Media Advisors Program http://fuse.microsoft.com/ssmap

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