Facebook helps you connect and share with the people in your life.

Sign Up
It's free and always will be.

First Name: 

Last Name: 

Your Email: 

Re-enter Email: 

New Password: 

I am: Select Sex: 

Birthday: Month: Day: Year: 

Why do I need to provide my birthday?

Create a Page for a celebrity, band or business.

Facebook login screen
Source: Facebook
letters to

U.S. cities of Omaha, Nebraska and Wichita, Kansas to be the starting points and Boston, Massachusetts to be the end point of a chain of correspondence postcards in between to track the progress

results:

232 of the 296 letters never reached the destination

but from the 64 that did, it took around 5.5 to 6 people on average to send a letter

has been repeated with email by Dobbs et al. for 25,000 people - similar result

“six degrees of separation”
same for the Facebook friend graph:
721 mio. profiles
69 billion links between them
average distance 4.74 hops
comparison between different regions (Italy, Sweden, US) and over time

Facebook Data Team: Four Degrees of Separation

Source: arXiv
What is Social Visualization?
“Social data can be thought of as the traces that people leave as they go about their daily routine.”

Social Visualization Workshop, CHI 2006
email
skype logs, other chats
facebook messages
Societal Data

Information about society, where people live, what they eat, what they name their kids.

Alien Sightings in the US sorted by state

Source: NUFORC
Social visualization can also be about personal data.

Web 2.0 was all about collaboration, putting and sharing stuff online. And if you visualize that it's also somewhat social...

Is it just me, or is Twitter's little user pop-up (hover above a user picture) somewhat broken on Chrome?
Collaboration

Try our featured visualizations

The Taxonomy of Sin
King James text.
by srujacobs

Infant Mortality
Showing percentage change from 2000 to 2009
by jcsouth

Global Surface Temperature
1880-2009 - comparison to global mean.
by clifsnellgrove

Dating Services App Rank
Apr 2011 to Sept 2011
by kshonbeck

Meat, Dairy and Cereal Price Indices
1990-2010
by Anonymous

An experiment brought to you by IBM Research and the IBM Cognos software group

IBM Research: Many Eyes
Source: www.many-eyes.com
finally, visualizations that emphasize aesthetics or are in general "non-standard" can be considered social visualization

Rebecca Xiong, Judith Donath (1999): People Garden
In: Proc. UIST 1999
“Classical” SocialVis back when people were actually visualizing social data
Welcome to the Palace! Say HOUSE RULES to see the house rules.

Welcome Palace!

Well Lady's and Gentleman im going to southpark palace for a while ok :o)

but today i am going to the airport to fetch my brother from K.L.

ok duke

Leilani

Cookie 1

DUKE45™
Fernanda Viégas, Judith Donath (1999): Chat Circles

In: Proc. CHI 1999
I also thought that was very weird... Do you remember the last time it happened?
Accipiter: I will give you a baseball bat.

"What is HTTP monitoring?" "Well, it pings me but every 300 seconds to make sure it's still up."

It's like some sort of two-face/x-men type of thing.

ack! no, evil!
I am all of that and more.

no caffeine-demons! bad!

ackbr

Source: Spiegel Master's Thesis
danah boyd, Judith Donath (2002): Loom 2

In: Proc. HICSS 2002
each flower, one person
height of stem, length of being a member in the newsgroup
each petal is one message, red ones posts, blue ones replies

Rebecca Xiong, Judith Donath (1999): People Garden
In: Proc. UIST 1999
calendar weekdays (whole year)
size of rectangles: amount of email on that day
brightness of color: directedness of the email (no mailing list)

right side:
contacts
the higher up (=the closer to ego), the more messages

interaction: by clicking on names they’re highlighted and create little yellow rectangles in the calendar view

Fernanda Viégas, Judith Donath (2004): PostHistory
In: Proc. HICSS 2004
alternative:
circular visualization
the closer to the center, the more messages (see bottom half of circle

Fernanda Viégas, Judith Donath (2004): PostHistory
Fernanda Viégas, Scott Golder, Judith Donath (2006): Themail

interaction between email owner and a single contact
monthly and yearly words
appearance and size is based on frequency and distinctiveness

in this example: “performance” is highlighted (by clicking on the word) and shows emails containing the word (on the left)

each circle is a message, color is incoming or outgoing, size is length of message
In: Proc. CHI 2006

Fernanda Viégas, Scott Golder, Judith Donath (2006): Themail

searching is also possible
typing highlights words starting with the typed letters
and finally an example from one of the case studies in the paper:
email exchange between friends
friend is on a trip around the world for the first four months, which leads to many unique new words within the conversations
Jeff Heer, danah boyd (2004): Vizster

Source: Jeff Heer
Only senators that have voted together at least 60% of the time are now connected.
Social Visualization Techniques
Node-Link Diagram

Sentinel Visualizer: Social Network Analysis
Source: FMS Advanced Systems Group
Streamgraph

Source: Michael Bostock
Stacked Area Chart

Lee Byron, Martin Wattenberg (2008): Stacked Graphs
Timeline

Steve Chappel, Reebe Garofalo (1977): Genealogy of Pop/Rock Music

Source: Edward Tufte
A Peek Into Netflix Queues

Examine Netflix rental patterns, neighborhood by neighborhood, in a dozen cities. Some titles with distinct patterns are Mad Men, Obsessed and Last Chance Harvey.

100 titles that were frequently rented from Netflix in 2009

Change how movies are sorted

Loved by critics

Hated by critics

Rank No. 1

No. 50


Source: New York Times

Maps
SocialVis
Examples
An experiment brought to you by IBM Research and the IBM Cognos software group

Fernanda Viégas, Martin Wattenberg, Frank Van Ham, Jesse Kriss, Matt McKeon (2006): ManyEyes

In: Infovis 2007
Comments (48)

Currently showing

US government expenses 1962-2004

Frank van Ham says:
Where have your tax dollars gone?
Posted Jan 10 2007
See view for this comment

Anonymous says:
What is this spike in housing assistance?
Posted Jan 10 2007
See view for this comment

Anonymous says:
Huge variability...is this politics-driven or weather-driven?
Posted Jan 10 2007
See view for this comment

Martin Wattenberg says:
Veterans benefits are going down, percentage-wise.
Posted Jan 11 2007
See view for this comment

Fernanda Viégas, Martin Wattenberg, Frank Van Ham, Jesse Kriss, Matt McKeon (2006): ManyEyes

Health care costs exploded in 1990, and then just kept rising. (Compare veterans benefit hospitals, which grow linearly.)

Posted Jan 23 2007
See view for this comment

Uploaded by: Martin Wattenberg
Data source: Office of Management and Budget (OMB)
Description: Categorized data on US spending over time in year 2000 dollars
Tags: us budget gov

<table>
<thead>
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<td>General government</td>
<td>Legislative functions</td>
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<td>1079</td>
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<td>Housing assistance</td>
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<td>103984</td>
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<td>International affairs</td>
<td>Conduct of foreign affairs</td>
<td>1546</td>
<td>2121</td>
<td>1397</td>
<td>2001</td>
<td>2049</td>
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<tr>
<td>Other functions</td>
<td>Agriculture</td>
<td>General research and services</td>
<td>2112</td>
<td>2066</td>
<td>2226</td>
<td>2406</td>
<td>2570</td>
</tr>
</tbody>
</table>
i feel when i see fresh content comments and 1 s quickly fades away when i realize that none of the updates are actually coming from my friends

2 hours ago / from a male in wellington oh united states
- I feel like we've grown a lot as a band and I've just

- I feel like they don't have to be suckas forever
  6 mins ago / from someone

- I feel like the other tracks in
  6 mins ago / from someone

- I feel like I have no face
  6 mins ago / from someone

- I feel so at peace now that I've left
  6 mins ago / from someone

- I feel like I should drink more it's free after all
  6 mins ago / from someone

- I feel is one of the biggest problems in America
  6 mins ago / from someone

- I feel like scraping out my eyes with toothpicks when I'm forced to endure advertising in America
  6 mins ago / from someone

- I feel like it's such an improvement in so many ways when I see things I've been missing over the last months
  6 mins ago / from someone

- I feel very happy
  6 mins ago / from someone

Jonathan Harris, Sep Kamvar (2006): We Feel Fine
Source: www.wefeelfine.org
Jonathan Harris, Sep Kamvar (2008): I Want You To Want Me

Source: Jonathan Harris

Source: Marian Dörk
photos taken of the Boston Common over one year

summer is at the top

Martin Wattenberg, Fernanda Viégas (2009): FlickrFlow

Source: hint.fm
top 1000 baby names in the US over 130 years

Martin Wattenberg, Jesse Kriss (2007): NameVoyager
Source: www.babynamewizard.com
Martin Wattenberg, Jesse Kriss (2007): NameVoyager
Source: www.babynamewizard.com
for a while these things were around everywhere

interesting view on the ways people used wordle in viegas, wattenberg + feinberg: participatory visualization with wordle, infovis 2009 (they added a questionnaire and showed it to random users. received more than 4500 answers)

interesting tidbits:
“35% of young males and 49% of young females did not understand the meaning of word size”
compatible personal computers sold. See Microsoft Windows for a general overview, and History of Microsoft Windows for a detailed history.

The company's older flagship operating system was MS-DOS, which used a command line interface. Early versions of Windows required the use of MS-DOS code. This requirement was eliminated in Windows NT and its descendants, which include Windows 2000 and Windows XP.

Microsoft Office is the company's line of office software. It includes Word (a word processor), Excel (a spreadsheet), and PowerPoint (presentation software). Microsoft also produces Microsoft Office for Apple Macintosh computers.

**Hardware**

Although Microsoft is primarily a software company, it also produces several computer hardware products, often to support specific software business strategies.

An early example is the Microsoft Mouse, which encouraged the use of the Windows operating system's graphical user interface (GUI). Using a GUI without a mouse was awkward, and hence the proliferation of mice would speed the widespread adoption of Windows. Later models sport scrolling wheels, extra buttons, LED motion detectors and other features.

Microsoft also sells the Sidewinder line of joysticks and gamepads.

The company bought WebTV, a television Internet appliance in an effort to bolster their MSN Internet service.

When Microsoft released the XBox in late 2001, the company entered the multi-billion dollar game console market dominated by Sony and Nintendo.

**History of Microsoft**
example:
wiki page for chocolate

two users fought over whether 'coulage' was a thing that existed for chocolate (surrealist technique where a molten material is thrown into water to arrive at a sculpture)
THE DELETED

The 100 longest Article for Deletion (AfD) discussions on Wikipedia, which resulted in deletion of the article.

Notabilia

Moritz Stefaner (2011): Notabilia
In: www.notabilia.net
Fernanda Viégas, Ethan Perry, Ethan Howe, Judith Donath (2003): Artifacts of the Presence Era

In: Infovis 2004
Fernanda Viégas, Ethan Perry, Ethan Howe, Judith Donath (2003): Artifacts of the Presence Era

In: Infovis 2004
Fernanda Viégas, Ethan Perry, Ethan Howe, Judith Donath (2003): Artifacts of the Presence Era

In: Infovis 2004
Fernanda Viégas, Ethan Perry, Ethan Howe, Judith Donath (2003): Artifacts of the Presence Era
In: Infovis 2004
museum installation at the glenbow museum about the life and work of emily carr (canadian artist)
interactive tilted tabletop reproduction on the wall
visualization itself shows a timeline shaped like a tree

each tree ring stands for a decade

each circle is either a painting by emily carr or a commentary on her work

right side gives keywords from this contextual information and their relationship. the leaf nodes represent either comments or pictures by emily.
Dominikus Baur, Frederik Seiffert, Michael Sedlmair, Sebastian Boring (2010): LastHistory
Dominikus Baur, Frederik Seiffert, Michael Sedlmair, Sebastian Boring (2010): LastHistory

In: Infovis 2010
Dominikus Baur, Frederik Seiffert, Michael Sedlmair, Sebastian Boring (2010): LastHistory
In: Infovis 2010
15
Radiohead
Dienstag, 3. Juli 2007 02:01:49
Plays: 15, Weight: 0.41
Genre: unknown
Tags: 15 Step (100) One of the best (100) new song (100) radiohead (100) autumn tunes (100)
Live at Heineken Music Hall (100)
Dominikus Baur, Frederik Seiffert, Michael Sedlmair, Sebastian Boring (2010): LastHistory
In: Infovis 2010