

# Information Visualization Tutorial

WS 2009 / 2010

- \* Brainstorming
- \* Diskussion “A Nested Model”
- \* Data Sets + APIs

# Semesteraufgabe

- \* Thema: Lifetracking + Visualization
  - \* Passende Datensets
  - \* Fokus auf Web (+Visualisierung)
  - \* Casual Information Visualization
- \* Einer-/Zweierteams
- \* Erstellen einer (webfähigen) InfoVis Anwendung
- \* (Publikation)

# Brainstorming

# Thema

## Datenset:

- \* Lifetracking Daten:
  - \* Health (Daytum, Nike+, Bedposted)
  - \* Browsing/Media Histories (Delicious, Last.FM, Flickr)
  - \* Status/Blog entries (Facebook, Twitter)
  - \* Messages (Email, Skype)

## Aufgaben:

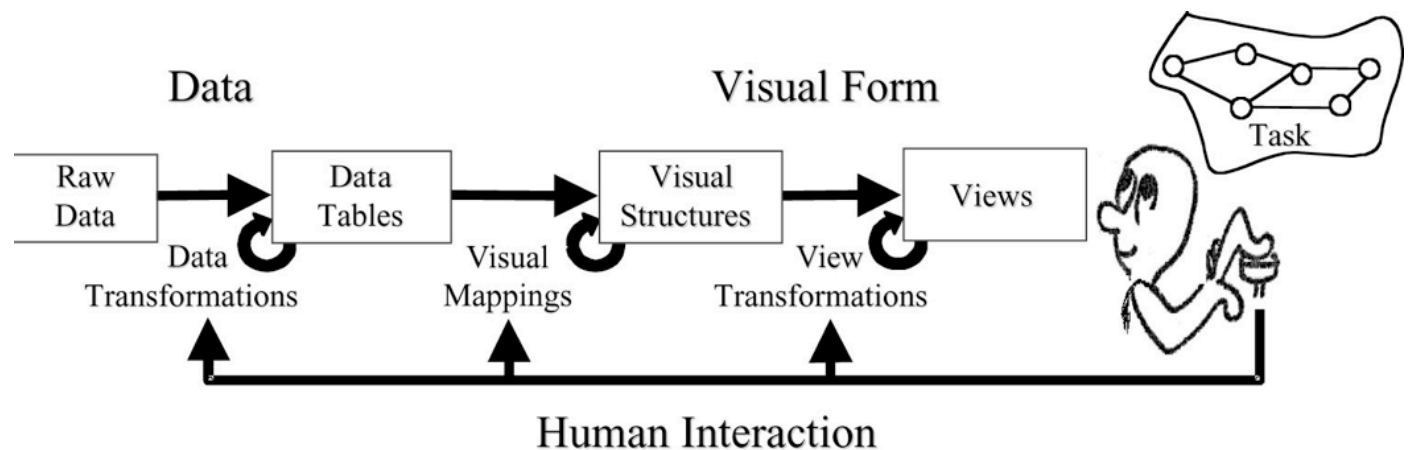
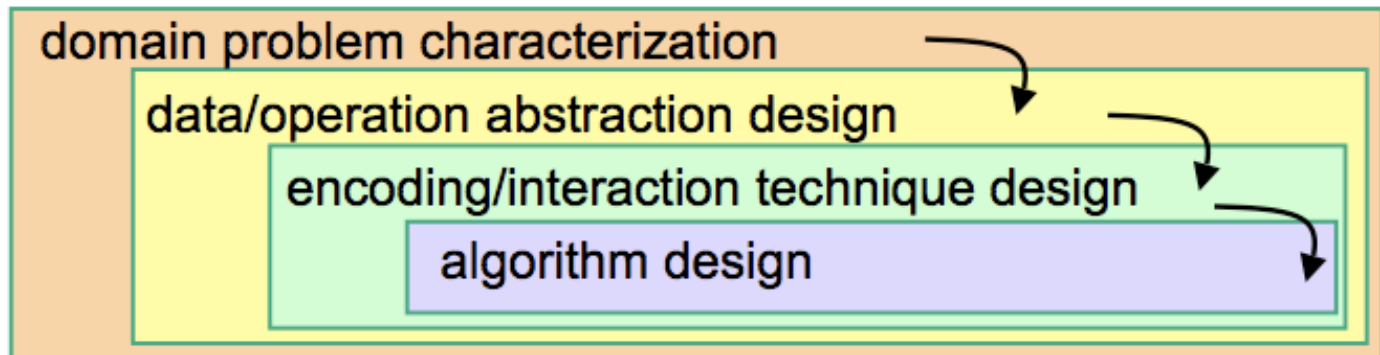
- \* Welche Aufgaben könnte der Benutzer damit erfüllen wollen?
- \* Welche Informationen lassen sich aus den Daten ziehen (abstrakt / konkret)?
- \* Denken Sie auch über die Menge der analysierten Benutzer (einer, Gruppe von Freunden/Bekanntem, Gesamte Community) nach!
- \* Meta-Bonusfrage: Warum sollte das irgendjemand machen?

# Paperdiskussion

\* Munzner: “A Nested Model for Visualization Design and Validation” InfoVis 2009

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\* Munzner: “A Nested Model for Visualization Design and Validation” InfoVis 2009









## Welcome Dominikus

let's just see where the chips are falling

[My Profile](#)[Tracking](#)[Analyzing](#)[Me](#)[Following](#)[Everyone](#)

### Recent Activity

A quick peek into the past



**JAMES:** Saved 4 pieces of data, including **Mood**, 1 hour ago.



**JONATHAN:** Saved 4 pieces of data, including **Time spent sleeping**, 1 hour ago.



**COLIN:** Saved 6 pieces of data, including **Time spent sleeping**, 18 hours ago.



**MARTIN:** Saved 1 piece of data, **Tea consumed**, 19 hours ago.



**MARK:** Saved 1 piece of data, **Pain level**, 19 hours ago.



### Tracking



**Health Items**

Last updated 11/11/2009 12:52



**Unnamed Survey**

Last updated 11/11/2009 12:51

### Analyzing

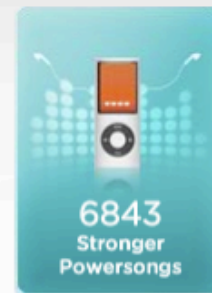
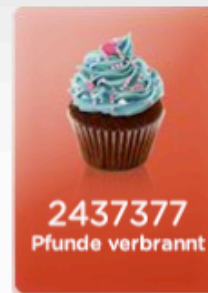
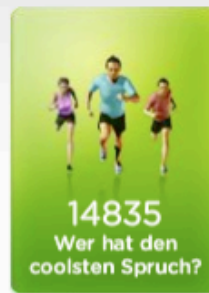
**Unnamed Report**

Last updated 11/11/2009 15:32

#### We'd love your opinion

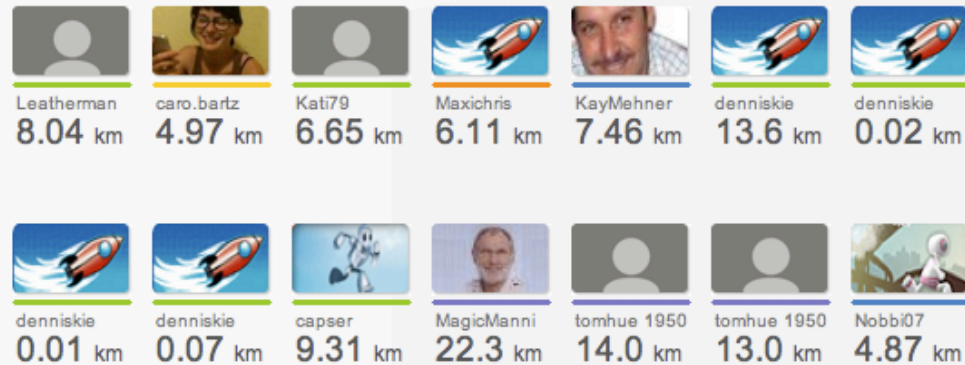
To improve the site we are in the process of revamping the reports we generate. Please **take a look** and let us know if you have any suggestions that would help us make the site better for you.

Alle bei Nike+ sind insgesamt gelaufen: 289,282,06  
588 585 06

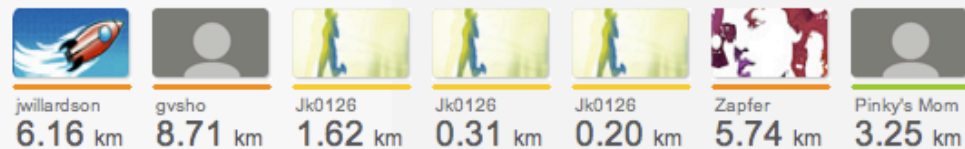


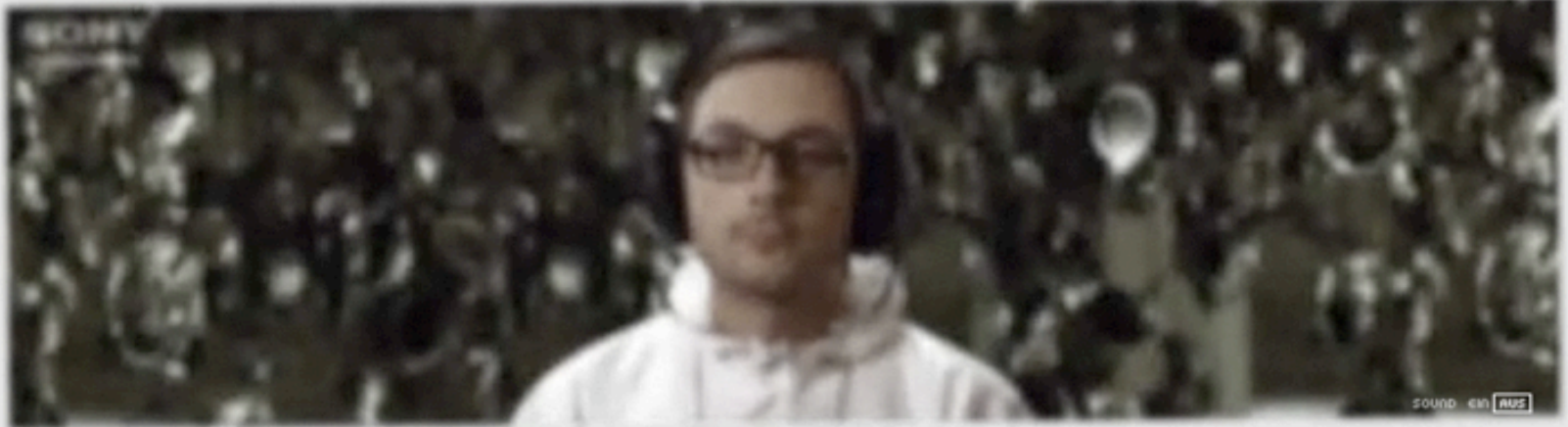
## Was ist gerade los in Nike+

Sieh dir die neuesten Aktivitäten von Läufern in deinem Land an.



Sieh dir an, welche Leistungen andere in Nike+ bringen.





## Last.fm empfiehlt dir Musik, Videos und Konzerte ganz nach deinem Musikgeschmack.

Zum Beispiel, Leute die Placebo hören, mögen auch **IAMX**, **Muse** und **Placebo (Feat. David Bowie)**. Was hörst du gerne?

Oder versuche es mit **Girl Talk**, **Biffy Clyro**, **Eric Clapton** oder **Korpiklaani**.

## Personalisiertes visuelles Radio Mit Kombo-Stationen, Statistiken und mehr.



Last.fm macht aus dem, was Millionen Leute hören, den perfekten Mix für dich.

The freshest bookmarks that are flying like hotcakes on Delicious and beyond.

See more recent bookmarks

Remembrance Day or Veteran's Day Printables via dltk-holidays.com 29 Related Tweets

20 Websites That Will Make You A Better Blogger | Make Money Online via Incomedialary.com 10 Related Tweets

MediaPost Publications Google Tests Skippable Ads In YouTube Videos 11/11/2009 via mediapost.com 10 Related Tweets

GO: Google Launches Its Own Programming Language via mashable.com 8 Related Tweets

Real Guys 4 Real Guys via realguys4realguys.blogspot.com 11 Related Tweets

NEW: TweetDeck for iPhone Adds Facebook, Landscape, and Video via mashable.com 9 Related Tweets

What are you doing?

140

Latest: anybody has invites for that? RT @infosethetics Nebulus: Visualizing (and Sharing) your Online Activity http://tinyurl.com/yfh2gfcz about 6 hours ago

update

Home

R\_A\_W Jennifer Grayson: Eco Etiquette: How To Eat Local This Winter http://bit.ly/3KulnH 16 minutes ago from twitterfeed

R\_A\_W RT @Me1956: RT @DrLeary The Colbert Report | Bend It Like Beck http://bit.ly/4ochEg http://tinyurl.com/yf77v3k #spon 19 minutes ago from TweetDeck

nirmalpatel thanks to everyone for the congratulations. time to sleep. :) 20 minutes ago from Tweetie

R\_A\_W For everything there is a season, a time for every matter under the sun: http://tinyurl.com/yf77v3k #spon 22 minutes ago from TweetDeck

TheOnion Afghan Presidential Election A Celebration Of All Forms Of Government http://ow.ly/Bnmx 24 minutes ago from HootSuite

TechCrunch It's All About The Data: Twitter Nabs Senior Scientist Utkarsh Srivastava From Yahoo http://bit.ly/hz2E4 by @robinwauters 24 minutes ago from Seismic

TechCrunch Bob Muglia on Azure, Silverlight, and Realtime http://bit.ly/bWhHW by @stevegillmor 27 minutes ago from Seismic

**dominikus**  
241 tweets

61 following 58 followers 1 listed

Twit - ter - Peek  
n. a device to access Twitter on-the-go.

**Home**

@dominikus  
Direct Messages 23

Favorites

Search

**Lists**

Lists are timelines you build yourself, consisting of friends, family, co-workers, sports teams, you name it.

New list

**Trending Topics**

- #celebrityperfumes
- Happy Veterans Day
- Google Wave
- #VeteransDay
- Remembrance Day
- #bestfeeling
- Modern Warfare 2
- MW2
- Vets

# facebook

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

<http://www.twitter.com>

<http://www.facebook.com>





Overview:

<http://flowingdata.com/2008/09/12/23-personal-tools-to-learn-more-about-yourself/>

<http://fudder.de/artikel/2009/05/27/life-tracking-datensammeln-im-eigenen-leben/>

<http://en.wikipedia.org/wiki/Lifelog>

# Data Sets



# Data Sets : Mortality factors of WHO Member States (bubble)

Uploaded by: [xtine6204](#)

Created at: Monday October 26 2009, 09:48 PM

Data Source: World Health Organisation and Aim  
Global Health

Description: This visualization conveys the factors that affect international mortality rates. Any data which cannot be seen has not been confirmed by the WHO consensus.

[view as text](#)

[edit data set](#)

	WHO Member State	Continent	Access to improved drinking-water sources urban and rural 2006 (%)	Access to improved sanitation urban and rural 2006 (%)	Children Underweight <5 years of age 2007 (%)	Prevalence of current tobacco use both sexes > = 15 2006 (%)	Alcohol consumption among adults aged ≥ 15 years 2003 (litres per person per year)
1	Algeria	Africa	85	94	10.2	15.2	0.15
2	Angola	Africa	51	50	27.5		3.86
3	Benin	Africa	65	30	20.2		1.29
4	Botswana	Africa	96	47	10.7		4.29
5	Burundi	Africa	71	41	38.9		9.1
6	Cameroon	Africa	70	51	15.1	7.4	3.77
7	Central African Republic	Africa	66	31	21.8		1.53
8	Chad	Africa	48	9	33.9	9.4	0.31
9	Comoros	Africa	85	35	25	20.7	0.31

<http://manyeyes.alphaworks.ibm.com/manyeyes/datasets/dc78478ac29a11de9021000255111976/versions/1>

# APIs

(Application Programming Interfaces)



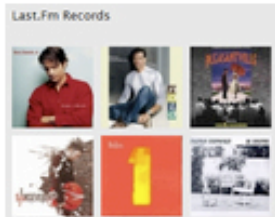
## Last.fm Web Services

API | Feeds | Your API Account

The Last.fm API allows anyone to build their own programs using Last.fm data, whether they're on the web, the desktop or mobile devices. **Find out more** about how you can start exploring **the social music playground** or just browse the list of methods below.

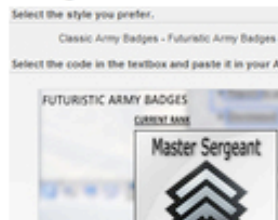
### Featured Applications

#### Last.fm Records



Show CD covers on your Wordpress weblog and other websites.

#### Badges



Several Badges in various themes.

<http://www.lastfm.de/api>

VIEW

# FrontPage

last edited by  Marcel Molina 2 mos ago

**Welcome to the Twitter API wiki. What are you coding?**

## [Twitter API Documentation](#)

- [Getting Started](#)
- [Frequently asked questions](#)
- [API Changelog](#)
- [API Blog](#)
- [Known Defects and Enhancements List](#)
- [Long-term Enhancements](#)
- [Support](#)
- [Security Best Practices](#)

## **OAuth**

- [OAuth FAQ](#)
- [OAuth Examples](#)

<http://apiwiki.twitter.com/>

# Parsing HTML





# dapper



Search for existing content feeds and web services

Choose a format (optional)

Search >

[how it works video](#)

or [create a new Dapp](#)

## Get more traffic to your site

Use Dapper to create new means for people to access your content.  
Create RSS feeds, widgets, and APIs with your content and links.

[License and distribute my content >](#)

```
...
    <span class="owner_location no_wrap">

        San Francisco, CA

    <br/>
    <span id="entries_link" class="entries_link">

...

```

```
import urllib
import sys
import BeautifulSoup

daytum_url = "http://www.daytum.com/" + sys.argv[1]
daytum_html = urllib.urlopen(daytum_url).read()
soup = BeautifulSoup.BeautifulSoup(daytum_html)

locat = soup.find("span", {"class" : "owner_location no_wrap"})
print sys.argv[1] + " is from " + locat.contents[0].strip() + "."

```