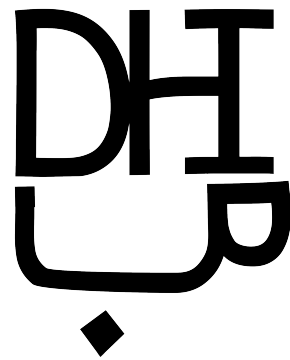


Quantified Self - 1



David Joseph Wrisley @DJWrisley #DHIB2019
Digital Humanities Institute Beirut 4 May 2019

جامعة نيويورك أبوظبي



NYU | ABU DHABI

Outcomes (<http://djwrisley.com/dhib-2019-quantified-self/>)

- Participants in the workshop will explore basic arguments in the contemporary context of self-tracking and the datafication of human life.
- be exposed to relevant issues in information privacy related to device usage and commercial data aggregation.
- visualize some data about themselves
- practice data storytelling techniques reusing that data (map visualization, plotting).
- discuss to what extent these data reflect their own life experience, or constitute “self-knowledge”.
- Situate data literacy about the self within one’s larger conception of information literacy
- examine critically the risks and benefits of QS applications for emerging and vulnerable environments
- Enrich and improve on the evolving course wp.nyu.edu/quse

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Day 1

- discussion of data privacy, geo-privacy
- introduction to quantified self (QS) movement and to its globalization
- exploration of the data collection capacities of a smartphone / wearable technologies
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- choosing an app for data collection and extraction exercise

exercises: watching the watching; observing the data collection apps already on your phone; extracting data from an app or web service

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- debriefing about data collection: findings and shortcomings.
- discussion of a theoretical issues in QS, media studies and digital citizenship
- exporting data from web services
- presentation of relevant data visualization techniques.
- explore some ways to extend your information literacy to include more privacy in the digital age

exercises: close analysis of extracted data; data storytelling with that information

Information Literacy (ACRL)

“Information literacy is the set of integrated abilities encompassing the reflective discovery of information, the understanding of how information is produced and valued, and the use of information in creating new knowledge and participating ethically in communities of learning.”

ACRL Framework

<http://www.ala.org/acrl/standards/ilframework>

IL, QS & DH: an interwoven conversation

- From digitization to datafication

Digitization: *the process of converting information into a digital (i.e. computer-readable) format, in which the information is organized into bits. (Wikipedia)*

Datafication *is a modern technological trend turning many aspects of our life into data which is subsequently transferred into information realised as a new form of value. (Wikipedia)*

- Both IL & QS involve digital abstractions, models
- We are now the data (and have been for some time)!
- Impacts of datafication on everyday life: health, insurance, HR, marketing, smart cities?

DJW's working “hack” of the ACRL IL definition

Literacy about oneself in a digital society is the set of integrated abilities encompassing the reflective discovery of one's own datafication, the understanding of how information is produced about the self--actively and passively, knowingly and unknowingly--in the post-digital age and the use of information in exploring new insights about the self, for understanding more about our embeddedness in a computationally-ubiquitous society, choosing if/when to opt out as well participating ethically and advocating for digital citizenship in our increasingly datafied society.

*We have always measured human life. But how much is too much?
What are the ethical boundaries of collecting such measurements?*

Recording one's life

<https://twitter.com/chrisdancy/status/1117973306282475521>

<https://i.imgur.com/5zop8mn.png>



Chris Dancy

@chrisdancy



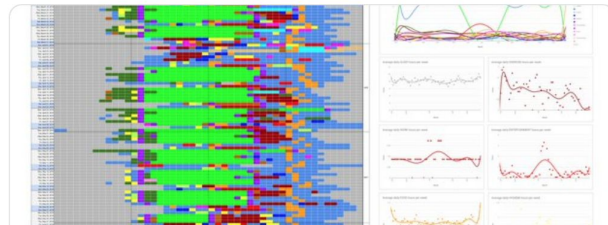
Follow

High school student recorded every 1/2 hour of his life.

Yet people are still clamoring about #privacy and #data breaches.

The #quantifiedself is so mainstream, they don't even use that term any more.

The difference between my Facebook and yours? I extract my data BACK.



Discussion #1

- Where in your life do you have data like the high school student?
- What are your opinions about collecting/visualizing data about yourself?
- How private/safe do you think the data collected about yourself are?
- What does “privacy” mean in your family/home/country of origin?

Exercise #1: Installing Privacy Badger

What are web trackers? What do they track?

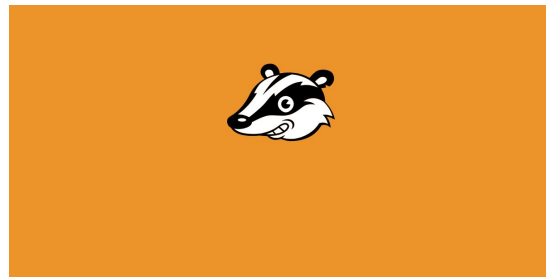
What do they do with the data they collect?

How “quietly” and seamlessly do they collect data?

“Tracking can be defined as collecting data points over multiple different web pages and sites, which can be linked to individual users via a unique user identifier.” (Grief)

Install the PB extension for Chrome and FireFox.

Surf and watch what happens.



<https://www.eff.org/privacybadger>

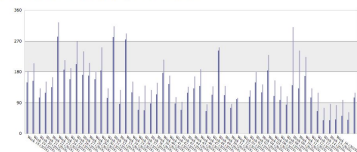
Discussion #2

What is the difference between the high schooler's visualization and what you found while browsing?

“Watching the watching” (a website traffic manager)

is the number of visits and the number of page views.

ailed your site and 118 pages have been viewed (0 and 0 for last week).



is the distribution of browser types and OS.



| Time | IP Address | Viewed Page | Browser | OS | Referer | Time spent |
|---------------------|---|--|----------------------|-------------------|---|------------|
| 2019-05-04 04:31:48 | 193.227.182.194 Lebanon (- Beirut) | DHIB 2019: Quantified Self | Chrome 73.0.3683.103 | Macintosh 10.11.6 | About Me | >10:00 |
| 2019-05-04 04:19:52 | 193.227.182.194 Lebanon (- Beirut) | / | Chrome 73.0.3683.103 | Macintosh 10.11.6 | | 00:10 |
| 2019-05-03 21:20:55 | 94.187.55.233 Lebanon (- Nabatiye et tahta) | DHIB 2019: Quantified Self | Firefox 66.0 | Macintosh 10.12 | | >10:00 |
| 2019-05-03 21:08:29 | 94.187.55.233 Lebanon (- Nabatiye et tahta) | DHIB 2019: Quantified Self | Firefox 66.0 | Macintosh 10.12 | | 02:10 |
| 2019-05-03 20:45:34 | 193.227.182.194 Lebanon (- Beirut) | DHIB 2019: Quantified Self | Safari 12.1 | iPhone 12.2 | About Me | 00:10 |
| 2019-05-03 20:36:05 | 193.227.182.194 Lebanon (- Beirut) | DHIB 2019: Quantified Self | Firefox 63.0 | Macintosh 10.13 | | 02:40 |
| 2019-05-03 19:00:17 | 89.187.216.212 Lebanon (- Beirut) | DHIB 2019: Quantified Self | Chrome 64.0.3282.140 | Windows NT 4.0 | | 02:20 |
| 2019-05-03 16:44:53 | 185.6.148.55 Lebanon (- Jball) | DHIB 2019: Quantified Self | Safari | iPhone 12.2 | Unknown keywords. | 00:10 |
| 2019-05-03 13:54:00 | 79.106.142.35 Albania (1033 Tirana) | DHIB 2019: Quantified Self | Chrome 71.0.3578.99 | Android 9 | | 00:00 |
| 2019-05-03 13:19:23 | 146.158.186.83 Spain (28013 Madrid) | ESU DH 2018 – Linguistic Landscapes of Leipzig | Chrome 73.0.3683.103 | Macintosh 10.11.4 | Unknown keywords. | 00:00 |
| 2019-05-03 12:22:57 | 212.98.144.18 Lebanon (- Beirut) | DHIB 2019: Quantified Self | Chrome 73.0.3683.103 | Macintosh 10.11.6 | http://djwrisley.com/wp-admin/admin.php?page=traff... | 00:00 |
| 2019-05-03 12:20:25 | 212.98.144.18 Lebanon (- Beirut) | DHIB 2019: Quantified Self | Chrome 73.0.3683.103 | Macintosh 10.11.6 | http://djwrisley.com/wp-admin/admin.php?page=traff... | 04:00 |
| 2019-05-03 11:46:19 | 54.164.112.170 United states (20146 Ashburn) | / | Chrome 73.0.3683.103 | Macintosh 10.11.6 | About Me | 04:30 |
| 2019-05-03 11:41:09 | 54.164.112.170 United states (20146 Ashburn) | Research | Chrome 73.0.3683.103 | Macintosh 10.11.6 | Research | 00:00 |

From laptop to devices...

Sensors included in a portable device can include:

- Accelerometer
- Proximity sensor
- touch screen
- Fingerprint sensor
- 3d camera sensor
- Pulse oximeter
- Pedometer
- Geiger counter!



<https://fossbytes.com/which-smartphone-sensors-how-work/>

Discussion #3

What are the differences between browser tracking and the capacities of portable devices (“smart” phones)?

Can you think of some positive or negative ways of tracking using device sensors?

Lunch time assignment

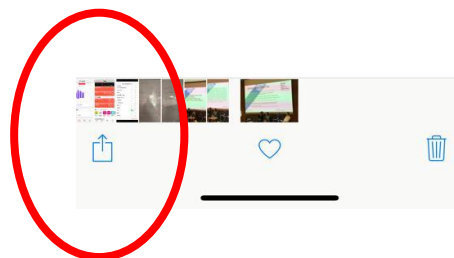
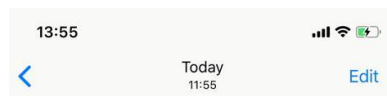
Examine closely the apps on your phone.

What kinds of data are created by them?

Is the health app activated (default)? Deactivated? & the Screen Time app?

Can you identify a way that you can download your data from them?

Download?



The QS movement

Adjusted brief description of my NYU Abu Dhabi course: wp.nyu.edu/quse

The contemporary “quantified self” movement makes claims of “self-knowledge through numbers” and improving health and human welfare. There are clearly other elements to self-tracking culture that deserve critical investigation. What does the self become seen through the lens of data? What is the dark side of data that can be used against us, and without regard for social justice and equality? The issue of data aggregation about human beings is a rapidly evolving one. There are certainly historical forms of self-quantification and globalized landscape of app tracking and wearable technologies is expanding rapidly. Digital humanists can contribute to this conversation by instructing other to think critically within this increasingly dense data landscape by creating data about themselves that can be analyzed and interpreted using a variety of data visualization and storytelling frameworks.

Gary Wolf's
TED talk

The QS movement (Bradford)



Discussion #4

How can we compare & contrast Wolf and Bradford?

Metaphors for social, datafied worlds

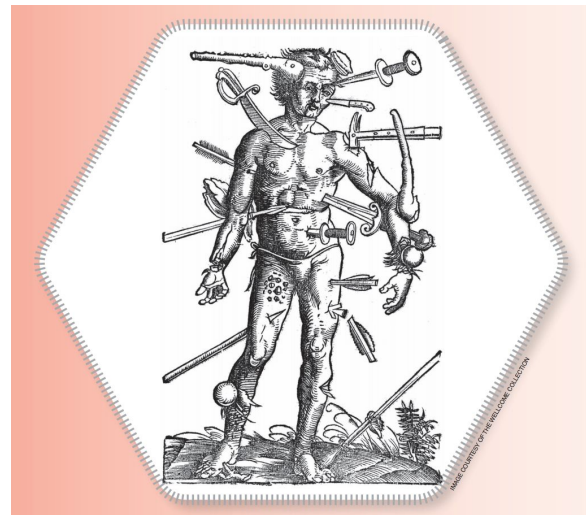
Open, Participatory Culture, or...

Digital Traces

Leaky Bodies

Wound Men (Stevens/Wernimont)

Digital Exhaust (Bradford)



<https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8558773>

Stevens / Wernimont

“Digital technologies re-orient the body from a self-contained, sovereign subject to a leaking, commodified, data-producing body.”

Group work

QS's site "Show and Tell" page:

<https://quantifiedself.com/show-and-tell/>

Choose a category and one presentation: look for kind(s) of data, methods of data collection, data skills required, conclusions about data, visualization methods, assumptions

How did you make that?

<https://forum.quantifiedself.com/c/quantified-self/apps-tools>

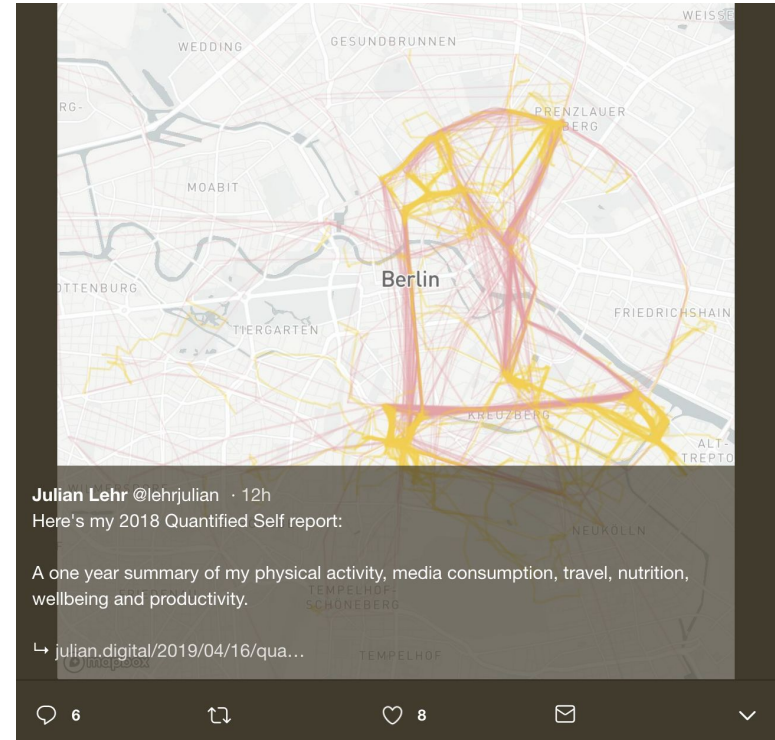
<https://quantifyme.io/>

<https://kit.exposingtheinvisible.org/what/venmo.html#>

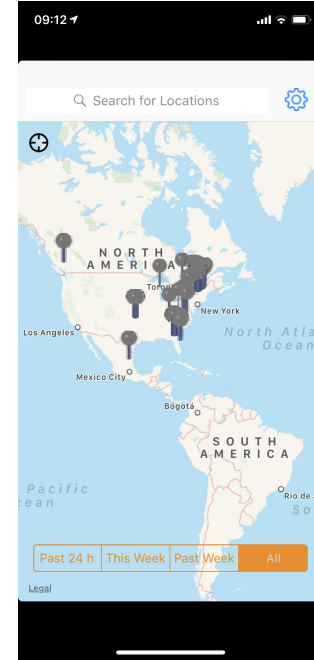
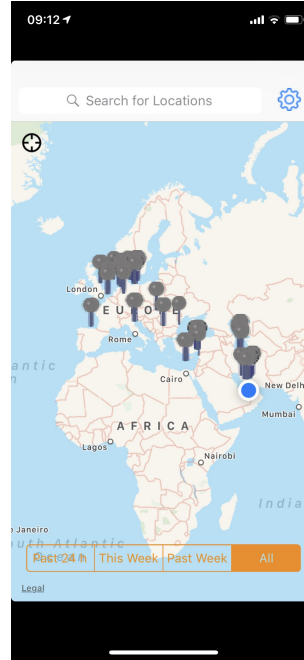
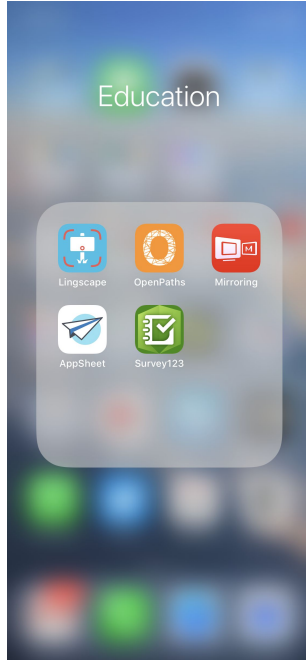
His Portland / His Berlin



Parecki, Ten Years of Tracking my Location



OpenPaths.cc (now defunct)



Geosocialfootprint.com

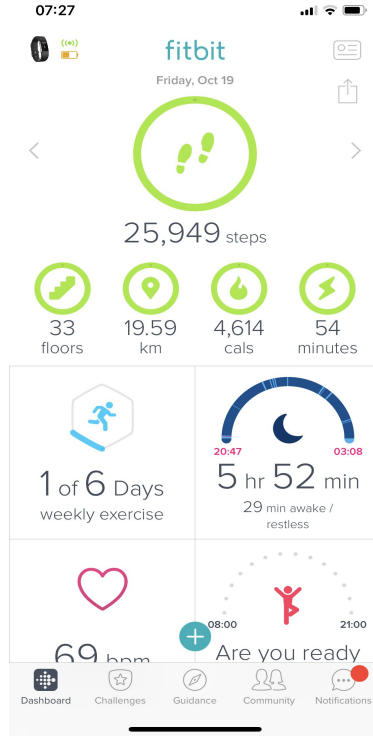
This website is an educational demonstration of how public Twitter.com data can be harvested and analyzed to uncover location intelligence. With 14 million tweets per day containing embedded GPS coordinates, and up to 35% of all tweets containing additional location information, viewing trends and making predictions is not only possible, but it should also be a considerable privacy concern for social media users.

Your “Google” timeline

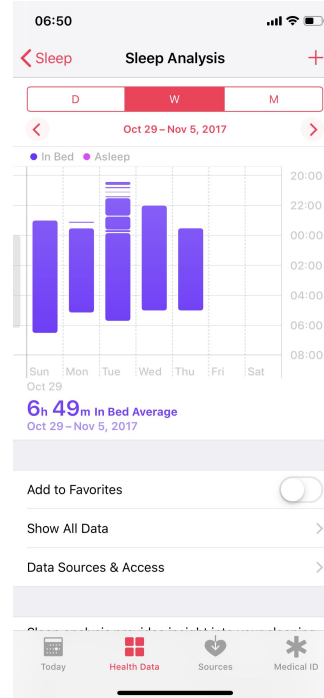
Click on this link to see your own data:

<https://www.google.com/maps/timeline?pb>

October 19, 2018 - Paris, France



May 3, 2019 - Beirut, Lebanon



Exercise #2: Using the QS app with Health app

App Store Preview

This app is only available on the App Store for iOS devices.

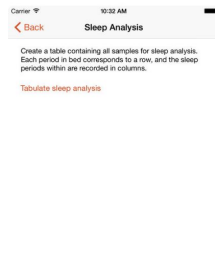
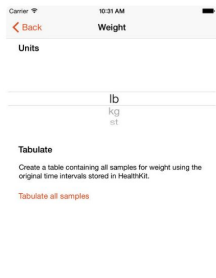
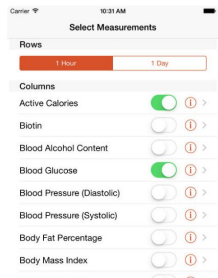


QS Access 4+
Quantified Self Labs

★★★★★ 4.3, 43 Ratings

Free

iPhone Screenshots



<https://theappfactor.com/how-to-export-health-app-data-iphone-ipad/>

Download one of the kinds of data. Study the format. How would we visualize it in Excel?

Overnight Homework

1 Set your phone alarm now for every half hour until bedtime. In your DHIB notebook, when the alarm goes off, log your mood on a scale from 1 to 10.

Happy / Hungry / Tired / Annoyed

2 Try to download your data from one or more of your apps/platforms :

Health (use the QS app) / [Uber](#) / [LinkedIn](#) / [Slack](#) / [Twitter](#) / [Instagram](#) / [Google](#) / [Whatsapp](#) / [Tinder](#) ...

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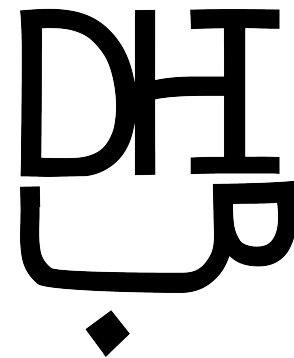
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exercises: close analysis of extracted data; data storytelling with that information

Quantified Self - 2



David Joseph Wrisley @DJWrisley #DHIB2019
Digital Humanities Institute Beirut 6 May 2019

جامعة نيويورك أبوظبي



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Highlights of yesterday's session

In discussion, participants said the following topics were highlights of Day 1:

- The data doppelgänger (tripelgänger [sic]) we all have
- Challenges of privacy across connected devices, IoT
- The deep dive into QS projects (<https://quantifiedself.com/show-and-tell/>)
- The difference between digitization and datafication
- Self-quantification in the open, socially
- Challenges of making ourselves / being made “computationally tractable”

Global QS

Quantified Self: A Global Phenomenon? Check out the traces of QS around the world. Are they all the same? Are there differences? Where has the movement appeared? where does the movement seem to have persisted? [Tokyo](#), [Singapore](#), [London](#), [Beirut](#), [Dubai](#), [Toronto](#), [Portland](#), [Paris](#), [Geneva](#), [San Francisco](#), [Munich](#), [Budapest](#), [India](#).

QS Beirut

QUANTIFIED SELF
SELF KNOWLEDGE THROUGH NUMBERS



Tag: beirut

BLOG

TOOLMAKER TALK: HIND HOBEIKA (BUTTERFLEYE)

Rajiv Mehta

May 23, 2012

At a recent QS-themed event at Stanford, 3-time Tour de France winner Greg LeMond described the constant stream of new technologies that make bicycles lighter and more streamlined and that provide ever more detailed monitoring of the cyclists. In contrast, innovation in swimming seems limited to controversial bathing suits. Competitive swimmer Hind Hobeika aims to...

BLOG

RECAP OF FIRST BEIRUT QS MEETUP

Alexandra Carmichael

March 26, 2012



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@DJWrisley DHIB 2019 Quantified Self 6

Debriefing about the data collection process

1) Manual

How easy was our gamified manual data collection process (using a timer and pencil/paper)? Did you come up with a work-around (to make it easier)? Did you make it through to bedtime? Could you go on for many more days? A half a year?

2) Download

How easy was it to get the data you wanted? What format was it in? Did you discover a functionality that you didn't expect to find? Does the platform that you extracted your social data from have a home visualization?

Why visualize? What is visualization?

Manovich: visualization as a mapping between discrete data and a visual representation.

D'Ignazio / Klein: feminist visualization rethinks binaries, embraces pluralism, examines power/ aspires to empowerment, consider context, legitimize embodiment and affect, makes labor visible.

In-app visualization vs raw data (csv)



VS

| | A | B | C | D | E |
|----|-------------------|-------------------|----------------|----------------|---------------------|
| 1 | In bed start | In bed Finish | Minutes in bed | Minutes asleep | Time to fall asleep |
| 2 | 14-Oct-2016 2:01 | 14-Oct-2016 3:01 | 60.2 | 0 | |
| 3 | 14-Oct-2016 3:16 | 14-Oct-2016 7:10 | 233.4666667 | 0 | |
| 4 | 14-Oct-2016 7:12 | 14-Oct-2016 7:12 | 0.133333333 | 0 | |
| 5 | 14-Oct-2016 8:51 | 14-Oct-2016 8:51 | 0.2 | 0 | |
| 6 | 15-Oct-2016 1:00 | 15-Oct-2016 9:00 | 480.2206457 | 0 | |
| 7 | 16-Oct-2016 2:15 | 16-Oct-2016 9:00 | 404.8840251 | 0 | |
| 8 | 18-Oct-2016 1:20 | 18-Oct-2016 7:19 | 358.2200318 | 0 | |
| 9 | 19-Oct-2016 5:04 | 19-Oct-2016 8:03 | 179.114247 | 0 | |
| 10 | 19-Oct-2016 8:05 | 19-Oct-2016 8:39 | 34.4 | 0 | |
| 11 | 19-Oct-2016 8:40 | 19-Oct-2016 8:48 | 7.866666667 | 0 | |
| 12 | 19-Oct-2016 8:56 | 19-Oct-2016 9:01 | 5.281615716 | 0 | |
| 13 | 20-Oct-2016 7:00 | 20-Oct-2016 13:23 | 383.0666667 | 0 | |
| 14 | 20-Oct-2016 13:52 | 20-Oct-2016 13:53 | 0.666666667 | 0 | |
| 15 | 20-Oct-2016 13:57 | 20-Oct-2016 13:59 | 1.8 | 0 | |
| 16 | 21-Oct-2016 7:00 | 21-Oct-2016 14:20 | 440 | 0 | |
| 17 | 21-Oct-2016 14:41 | 21-Oct-2016 14:44 | 3.533333333 | 0 | |
| 18 | 22-Oct-2016 7:00 | 22-Oct-2016 11:20 | 260.6 | 0 | |
| 19 | 22-Oct-2016 12:03 | 22-Oct-2016 12:09 | 6.066666667 | 0 | |
| 20 | 22-Oct-2016 12:28 | 22-Oct-2016 15:00 | 151.6967215 | 0 | |
| 21 | 23-Oct-2016 9:40 | 23-Oct-2016 15:00 | 320.0578224 | 0 | |
| 22 | 24-Oct-2016 8:35 | 24-Oct-2016 14:13 | 337.8666667 | 0 | |

Die Zeit journalist thinking about personal data

ZEIT ONLINE

Suche



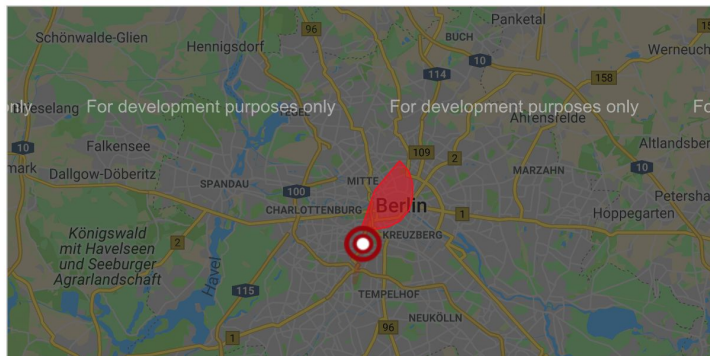
Politik Gesellschaft Wirtschaft Kultur Wissen **Digital** Campus Arbeit Entdecken Sport ZEITmagazin Podcasts mehr

Tell-all telephone

deutsch | english

Green party politician Malte Spitz sued to have German telecoms giant Deutsche Telekom hand over six months of his phone data that he then made available to ZEIT ONLINE. We combined this geolocation data with information relating to his life as a politician, such as Twitter feeds, blog entries and websites, all of which is all freely available on the internet.

By pushing the play button, you will set off on a trip through Malte Spitz's life. The speed controller allows you to adjust how fast you travel, the pause button will let you stop at interesting points. In addition, a calendar at the bottom shows when he was in a particular location and can be used to jump to a specific time period. Each column corresponds to one day.



Monday, 31 August 2009



Malte Spitz gives a speech to the Greens in Erfurt against internet censorship.
(source: [Partei website](#))



6 incoming calls
21 outgoing calls
total time: 1h 16min 8s



34 incoming messages
29 outgoing messages



duration of internet connection:
21h 17min 25s

“Data humanism:” art thinking about personal data

Dear Data (Lupi & Posavec)

Bruises (Lupi & King)

Data Not Found (King & Dorsen)



Privacy resources

[Electronic Frontier Federation](#)

[Ghostery](#)

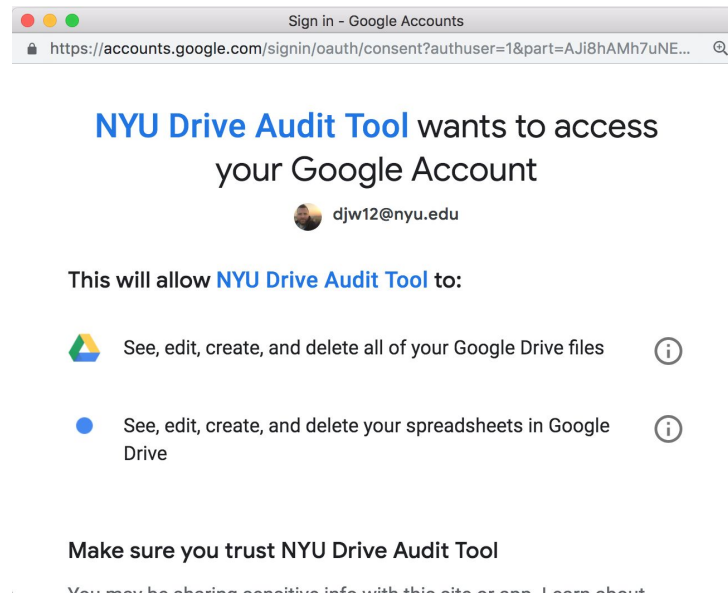
[FemTechNet](#) “Locking down your digital identity”

[DuckDuckGo](#)

[NYT Privacy Project](#)

Checking your sharing in Drive

<https://www.makeuseof.com/tag/see-access-google-drive-files/>



Altering your social data, after the fact

Tweet location ☒ Tweet with a location

If selected, you can add a location to your Tweets, such as your city or precise location, from the web and via third-party applications. This setting does not affect Twitter for iOS or Android. [Learn more](#)

[Delete location information](#)

Location labels you've added to your Tweets will no longer be visible on Twitter.com, Twitter for iOS, and Twitter for Android. These updates may take some time to go into effect.

Apps connected to your Twitter account



DJ Wrisley

API for twitter mining exercise

Permissions: *Read and write*

Approved: Oct 31, 2017, 12:03 PM

[Revoke access](#)



mining_r_aub

API for searching through twitter

Permissions: *Read and write*

Approved: Sep 20, 2015, 9:38 PM

[Undo Revoke Access](#)



iOS

iOS Twitter integration

Permissions: *Read and write*

Approved: Jan 16, 2014, 6:45 PM

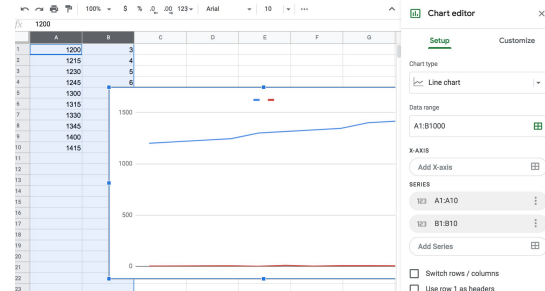
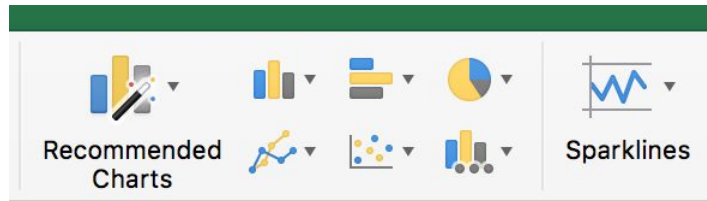
[Revoke access](#)



Exercise #1 : simple visualization of your manual life logging

Make columns in Excel/Google Sheets, insert your data in regular formats

Insert > recommended charts (Excel) Insert > Chart Editor (Sheets)



Were you able to create a simple vis? What does your life logging look like over the evening? What do you expect it would look like with a week of data? A month? A year?

Exercise #2

Examine your data download for format, structure, size, personal markers, etc.

How granular is it? How algorithmically “cooked” is it? What has been lost?

```
untitled | Location History.json
1 {
2   "locations": [ {
3     "timestampMs": "1410804585278",
4     "latitudeE7": 338713439,
5     "longitudeE7": 355070496,
6     "accuracy": 37,
7     "activity": [ {
8       "timestampMs": "1410804612218",
9       "activity": [ {
10        "type": "UNKNOWN",
11        "confidence": 56
12      }, {
13        "type": "IN_VEHICLE",
14        "confidence": 19
15      }, {
16        "type": "STILL",
17        "confidence": 14
18      }, {
19        "type": "ON_BICYCLE",
20        "confidence": 12
21      } ]
22    } ]
23  }, {
24    "timestampMs": "1410804660959",
25    "latitudeE7": 338713429,
26    "longitudeE7": 355070494,
27    "accuracy": 43
28  }, {
29    "timestampMs": "1410804721045",
```


Exercise #3: possible workflows for analysis

Matching data format to mode of visualization

- List of real place names (Awesome GeoCode)
- List of people related to each other (Palladio)
- List of numerical values over time (Excel, RawGraphs)
- Unstructured text (Voyant)
- Any other ideas?

Cleaning, normalizing, preprocess (might include anonymization)

Understanding the Privacy Policy of tools

Experimenting with different forms of visualization

Visualizing data

<http://rawgraphs.io/about/>

Excel/Google sheets

<http://umap.openstreetmap.fr/en/>

<https://hdlab.stanford.edu/palladio/>

<https://www.wordclouds.com>

<https://zenobase.com/> (accepts
common download formats)

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← Agenda & Links for Collabor...

Session 2

1. [Tool parade](#)
 - a. Quick introductions to an array of tools and potential uses in the classroom.
2. A quick and easy tool to integrate
 - a. [Hypothes.is](#) in the classroom
 - i. DHIB [Group \(to join\)](#)
3. Exploring other tools
 - i. Explore in small groups items shown in [tool parade](#) -- explore something you haven't used before - - brainstorm uses for a class
 - ii. WordPress
 1. (don't have your own site? Jeff can set you up with one to test out for the conference)
 - iii. Google Drive
 - iv. Google MyMaps
 - v. [Knight Lab Tools](#)
 1. Timeline JS, StoryMapJS, JuxtaposeJS, SoundciteJS
 - vi. Hypothes.is
 - vii. Communication tools
 1. [Feedly](#) -- Blog reader
 2. [Slack](#)
 - viii. Network Analysis and visualization
 1. [Voyant](#)
 2. [Kumu](#)
 3. [Gephi](#)
 - ix. Media editing
 1. Audio, video editing
 - x. Infographics -- [Canva/Piktochart](#)
 - xi. [Omeka](#)
- b. Come back and share with larger group about how you might use the tool you explored in a class

View original Flag media

Rayane Fayed @rfayed1
Tools discussed in @jmcclurken workshop #DHIB2019
3m

@DJWrisley DHIB 2019 Quantified Self 18

What kind of data predictions are social media doing?

What kind of a person does Google think you are? Twitter?

<http://www.gregboggs.com/who-does-google-think-you-are/>

<https://www.wonderoftech.com/twitter-personalization/>

<https://www.wonderoftech.com/facebook-ad-preferences/>

Beyond Privacy: *Digital Citizenship in a Datafied Society* (2019)

Much activism is alienated from data (local exception: Visualizing Palestine)

“[Datafication] incurs a qualitative shift in how social problems are perceived, decisions made, and ultimately how citizens are governed. In that, it can, and does, have significant and real implications for how and to what extent people are able to participate in society. Data is abstracted from our lived experience but can, at the same time, shape it in its returned form-- ‘while we don’t live in a world where our reality is exclusively data, we do live in a world where our reality is augmented by data.’ (citing Cheney-Lippold). In this sense, it warrants a broader engagement that incorporates a wider range of stakeholders across civil society in articulating both challenges and responses to datafication. (136)”

Outcomes (<http://djwrisley.com/dhib-2019-quantified-self/>)

- Participants in the workshop will explore basic arguments in the contemporary context of self-tracking and the datafication of human life.
- be exposed to relevant issues in information privacy related to device usage and commercial data aggregation.
- visualize some data about themselves
- practice data storytelling techniques reusing that data (map visualization, plotting).
- discuss to what extent these data reflect their own life experience, or constitute “self-knowledge”.
- Situate data literacy about the self within one’s larger conception of information literacy
- examine critically the risks and benefits of QS applications for emerging and vulnerable environments
- Enrich and improve on the evolving course wp.nyu.edu/quse

2-day plan

Day 1

- discussion of data privacy, geo-privacy
- introduction to quantified self (QS) movement and to its globalization
- exploration of the data collection capacities of a smartphone / wearable technologies
- exploration of self-tracking apps
- choosing an app for data collection and extraction exercise

exercises: watching the watching; observing the data collection apps already on your phone; extracting data from an app or web service

Day 2

- debriefing about data collection: findings and shortcomings.
- discussion of a theoretical issues in QS, media studies and digital citizenship
- exporting data from web services
- presentation of relevant data visualization techniques.
- explore some ways to extend your information literacy to include more privacy in the digital age

exercises: close analysis of extracted data; data storytelling with that information