



Luc Legay

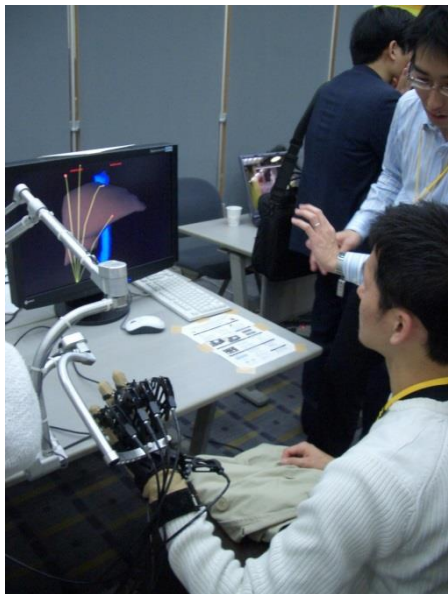
# PV251 Vizualizace

## Cvičení 1

# Plán cvičení

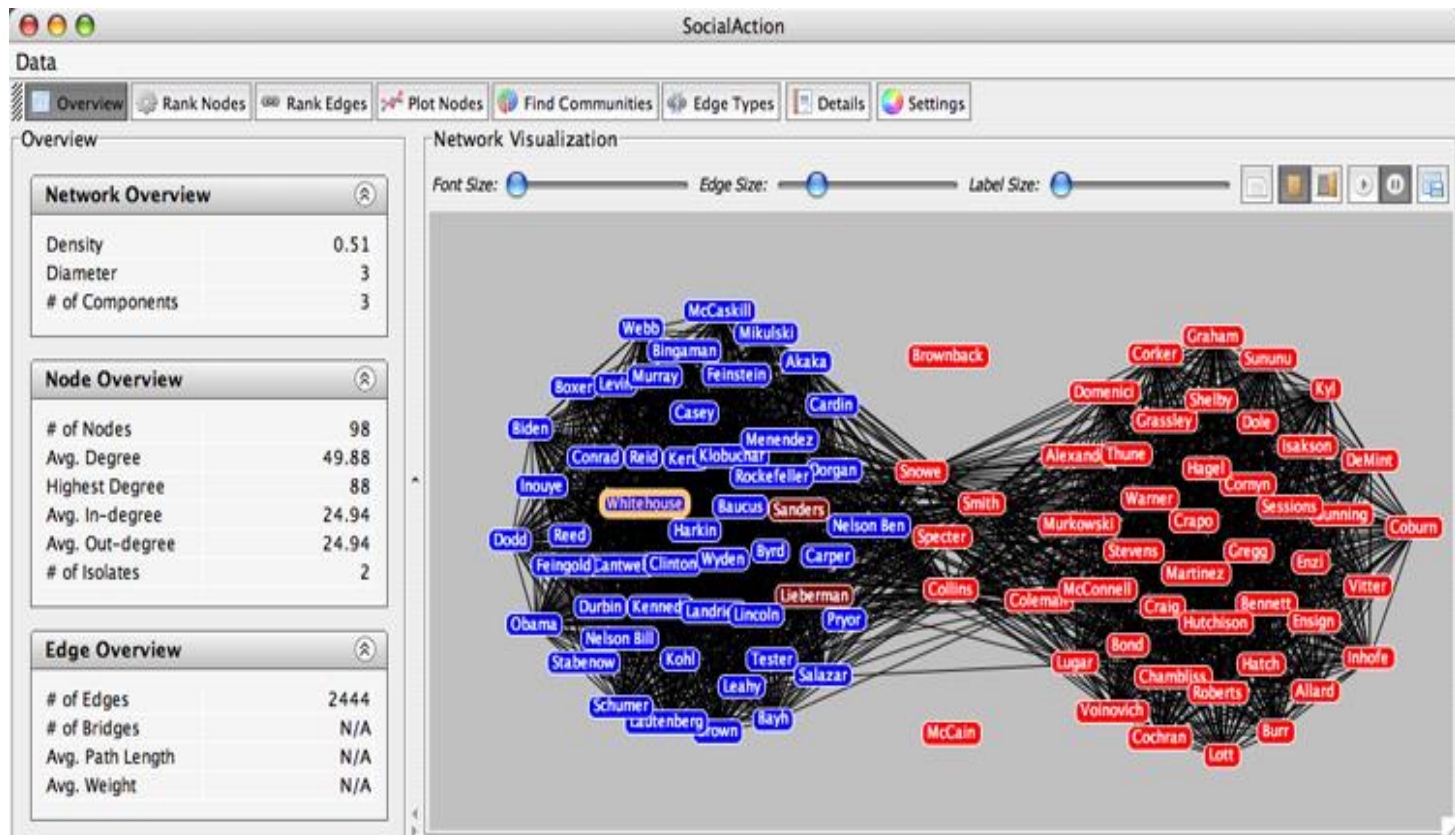
1. Úvod, příklady vizualizací
2. Online vizualizační nástroje, Processing
3. Zpracování a příprava dat, Python, Plotly
4. Úvod do D3
5. Import dat, pokročilé principy D3
6. Konzultace k projektům

# Vizualizace – jen to, co vidíme?

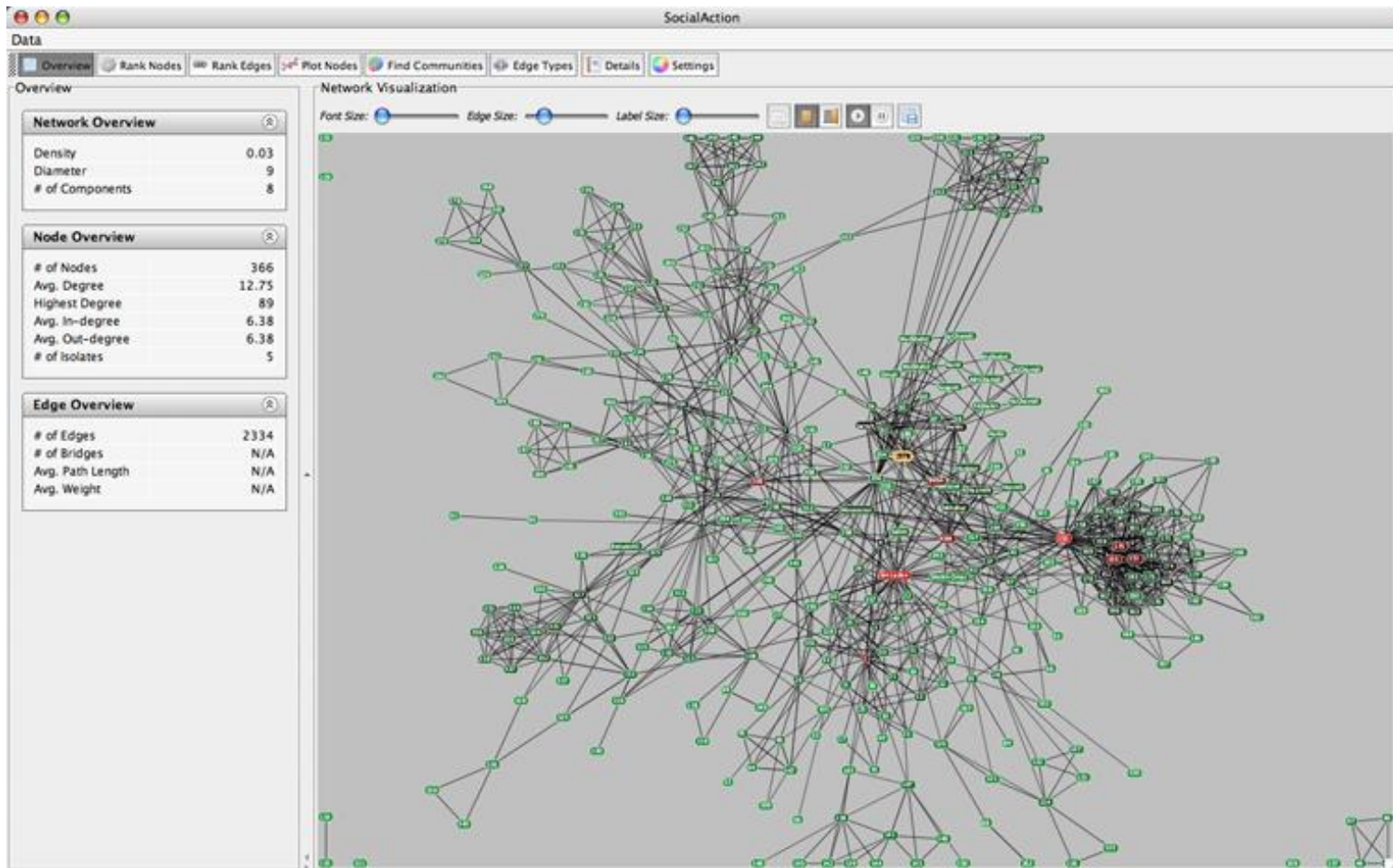


# SocialAction: analýza sociální sítě amerických senátorů

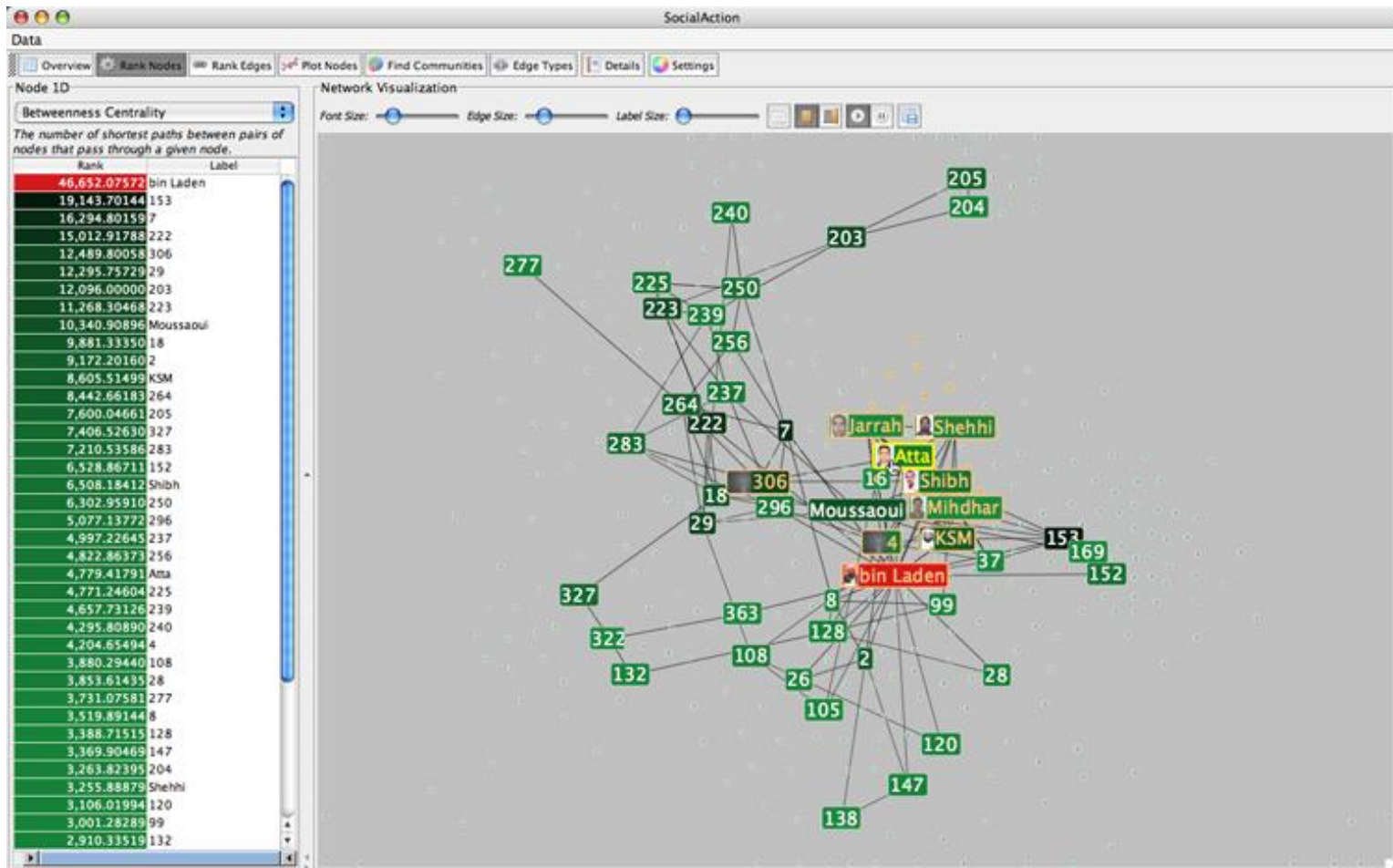
<http://vimeo.com/7308004>



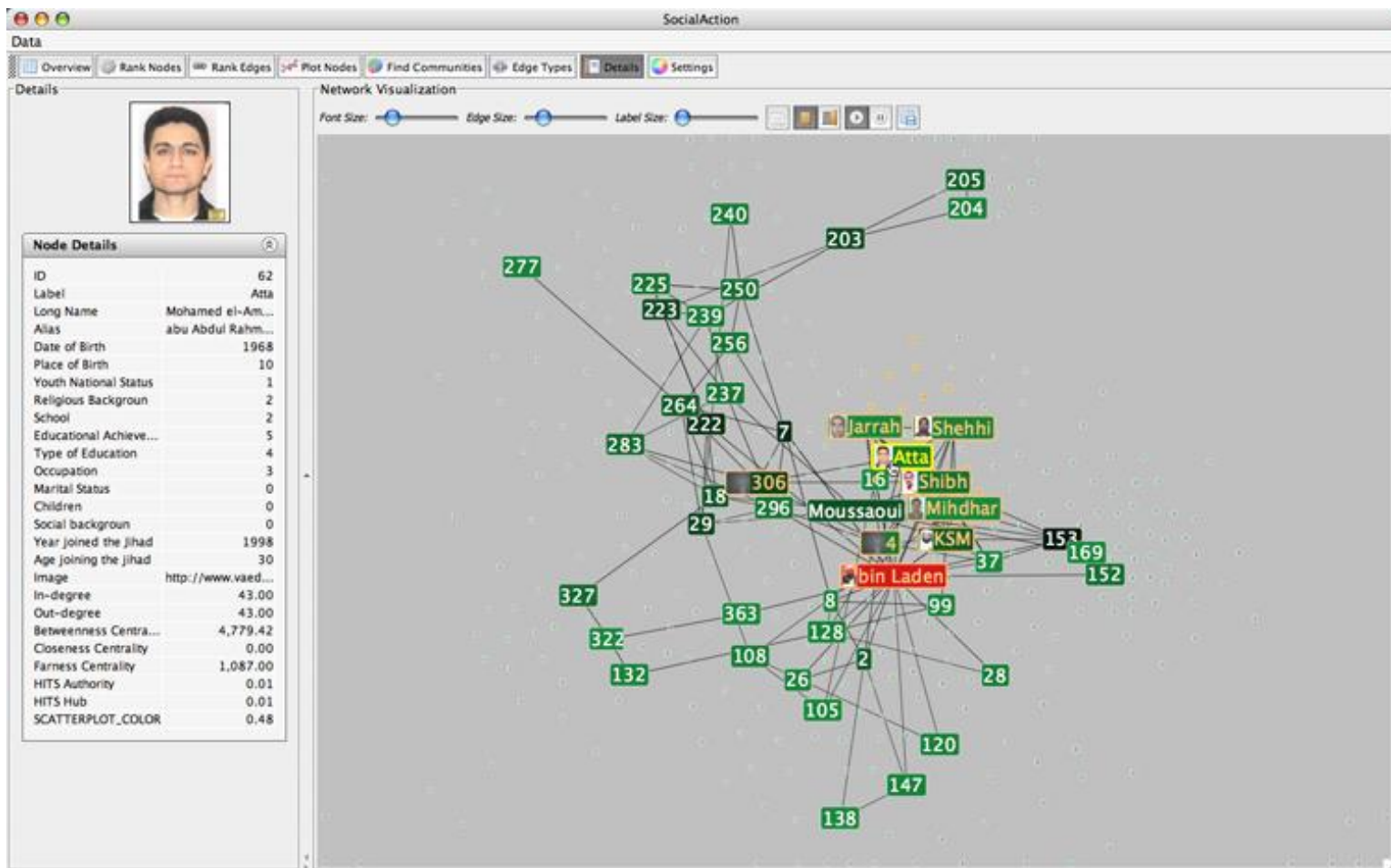
# SocialAction: Analýza globální teroristické sítě



# SocialAction: Analýza globální teroristické sítě

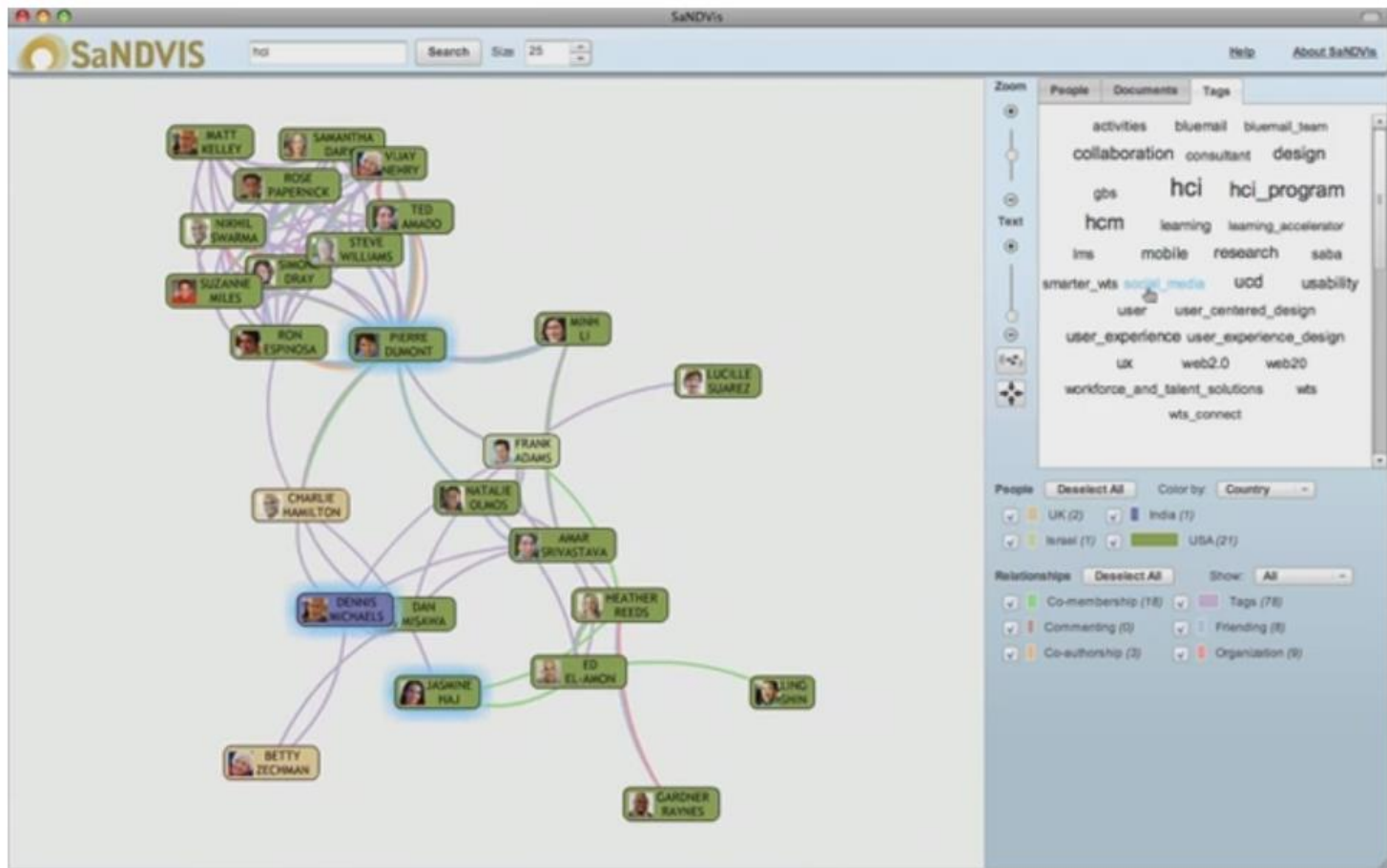


# SocialAction: Analýza globální teroristické sítě



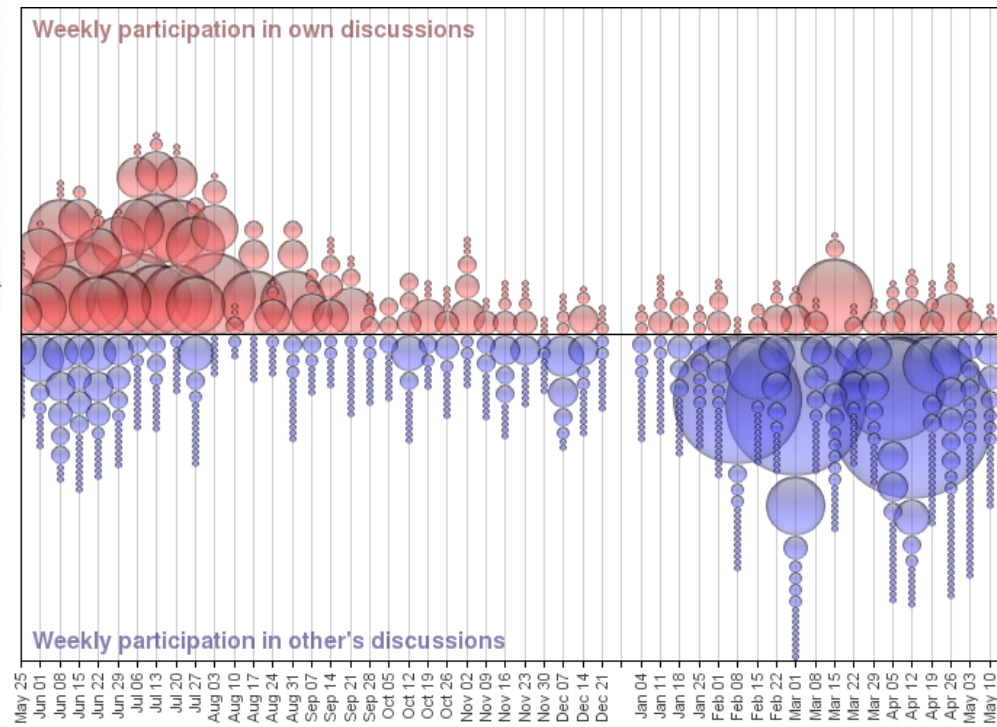
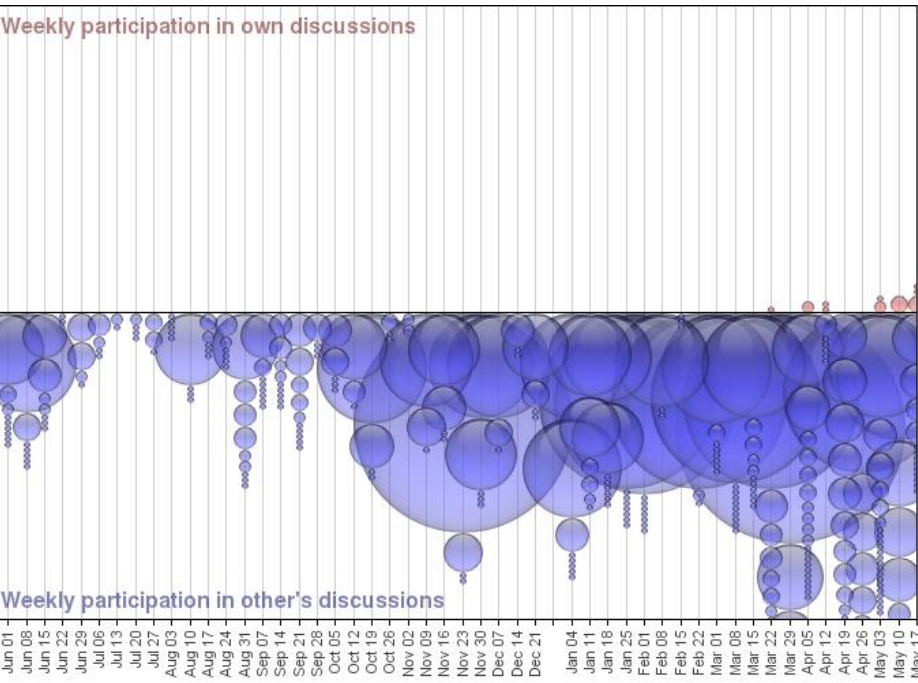
# SaNDVIS – Visual Social Network Analytics for Relationship Discovery in the Enterprise

<http://vimeo.com/25094971>



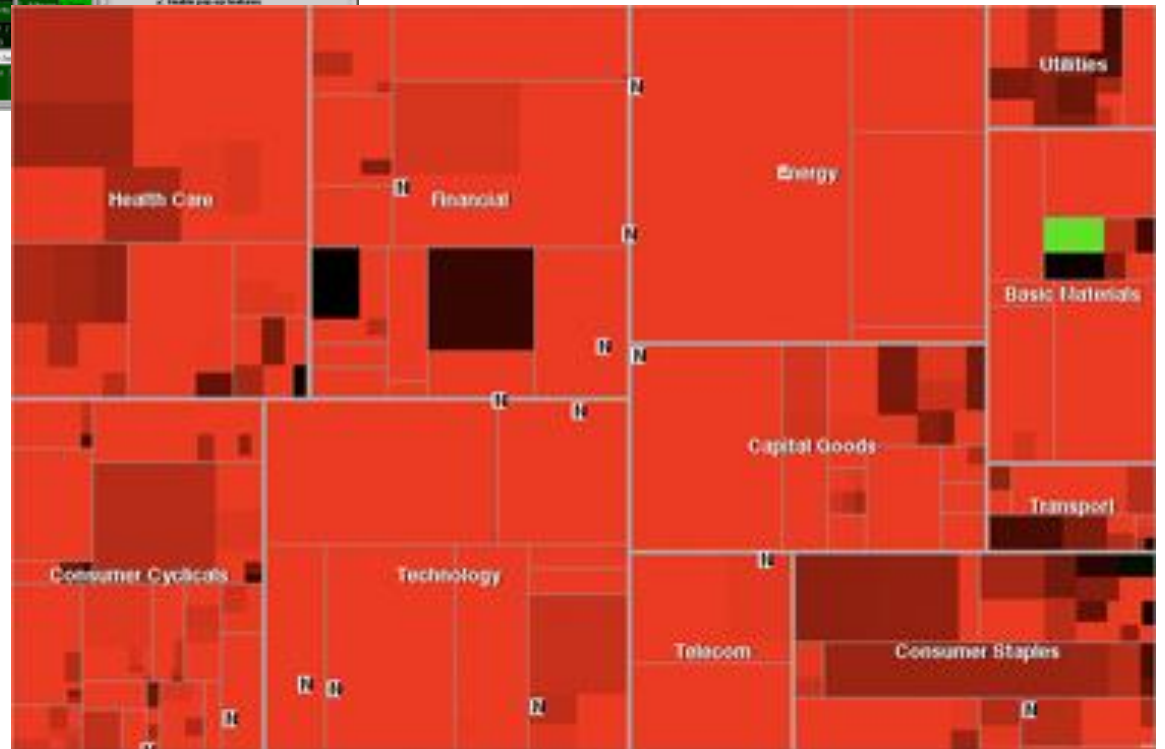
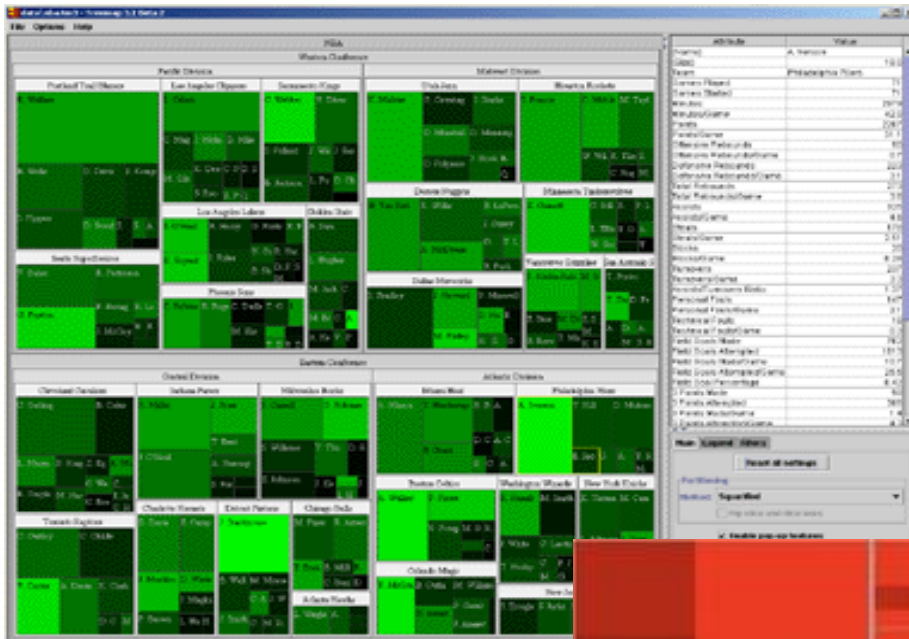


# Boardtracker (AuthorLines)



# Tree maps





# Ben Shneiderman – Time Searcher

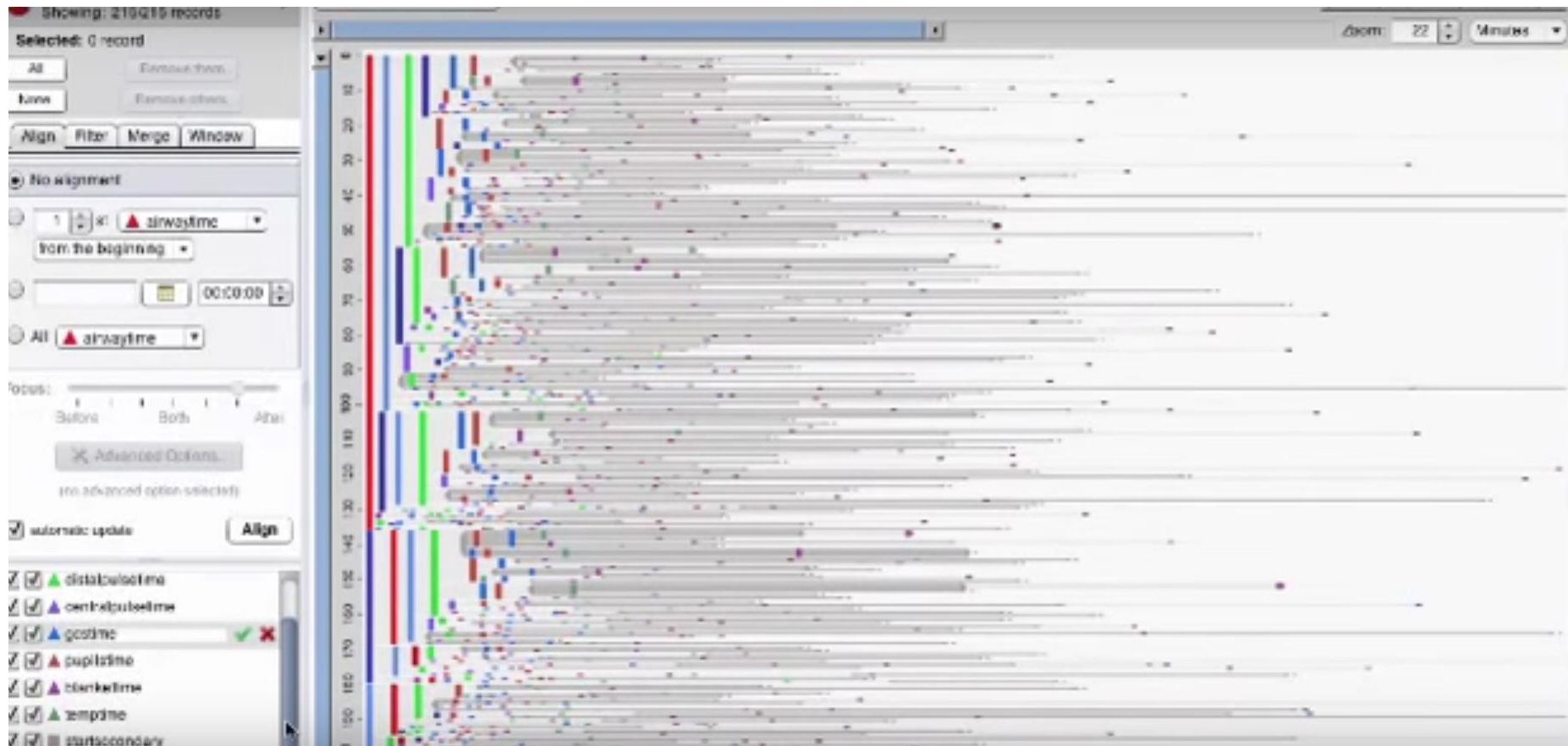
<http://www.youtube.com/watch?v=r1pKvDdLxVM>

Od 19:10

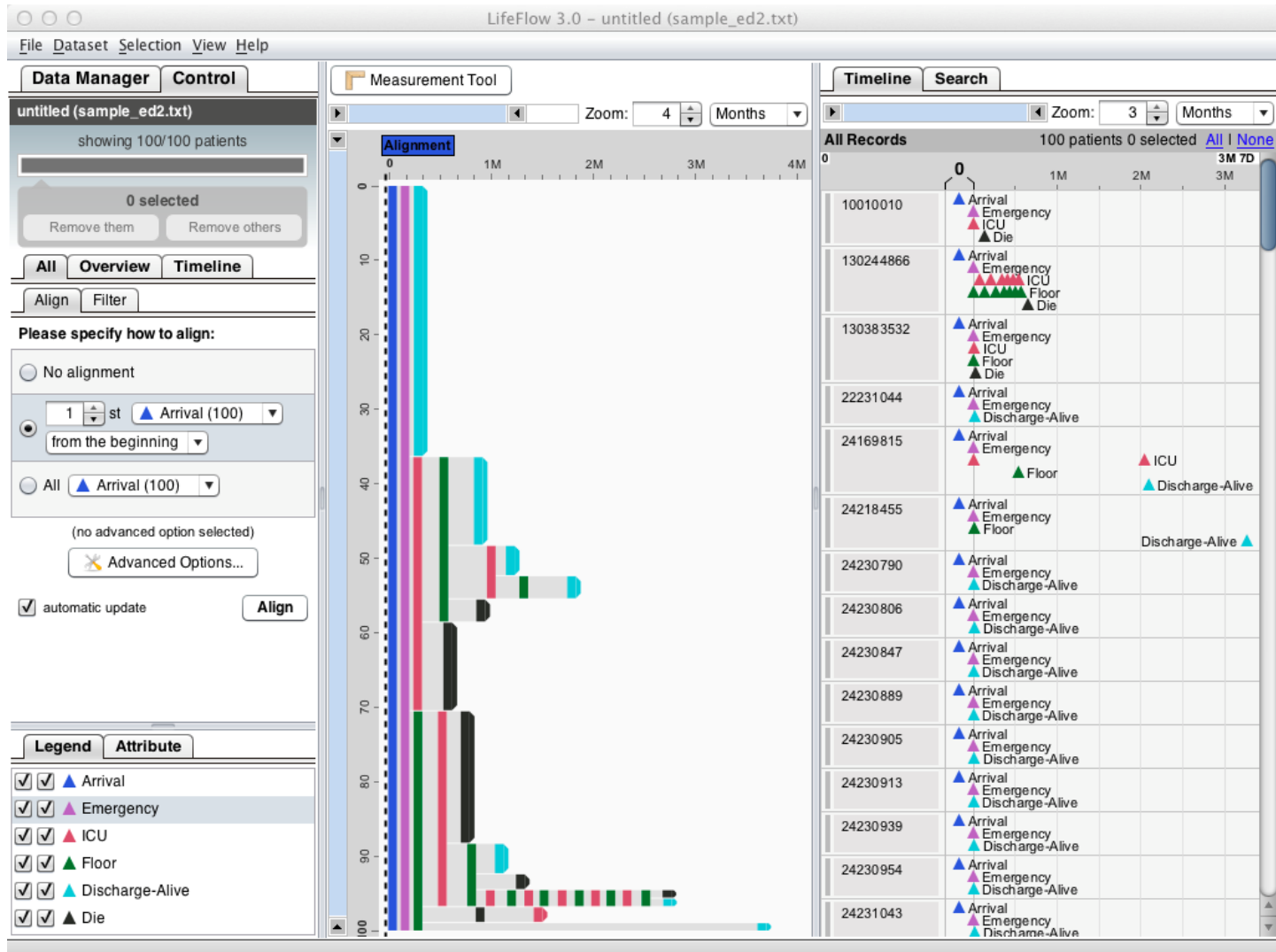
[http://www.cs.umd.edu/hcil/sharp/slides/UMD visit-HOUSTON-Dec2010-IntroBen.pdf](http://www.cs.umd.edu/hcil/sharp/slides/UMD%20visit-HOUSTON-Dec2010-IntroBen.pdf)

# Visual Analysis of Temporal Event Sequence, Aggregations

<https://www.youtube.com/watch?v=FHgcJDnW8q8>

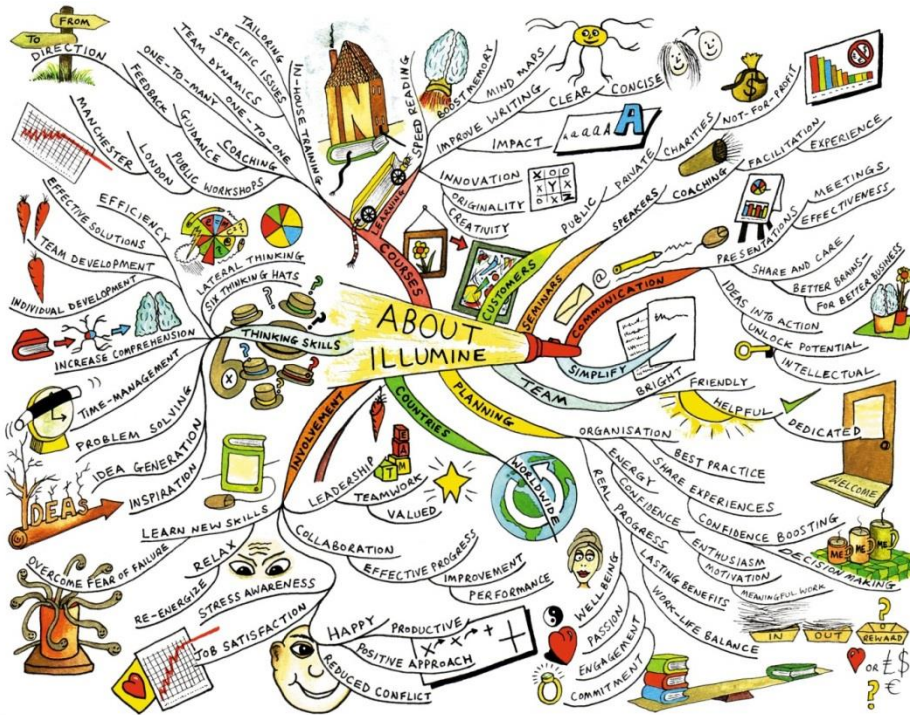


# LifeFlow: Interface with User Controls



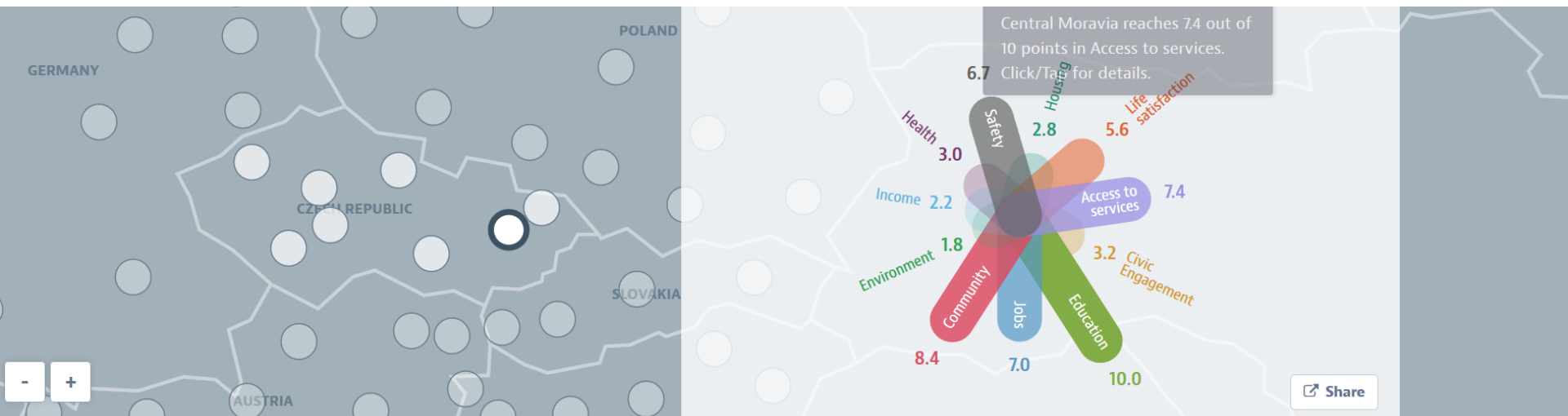
# Mind Maps

<http://www.youtube.com/watch?v=wLWV0XN7K1g>



# Regional Well-Being

- <https://www.oecdregionalwellbeing.org/CZ07.html>



Explore the map to find out how life is across OECD regions and discover regions with similar well-being.

Each region is measured in eleven topics important for well-being. The values of the indicators are expressed as a score between 0 and 10. A high score indicates better performance relative to the other regions.

[Help](#)

## Regions with similar well-being *in other countries*



Poland  
Mazowieckie



Slovak Republic  
Bratislava Region



Slovenia  
Eastern Slovenia



Israel  
Southern District

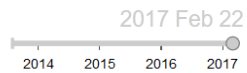


# Zika virus

- <http://nextstrain.org/zika/>

nextstrain / Zika ▾  
Real-time tracking of Zika virus evolution

## Phylogeny



Color by country ▾

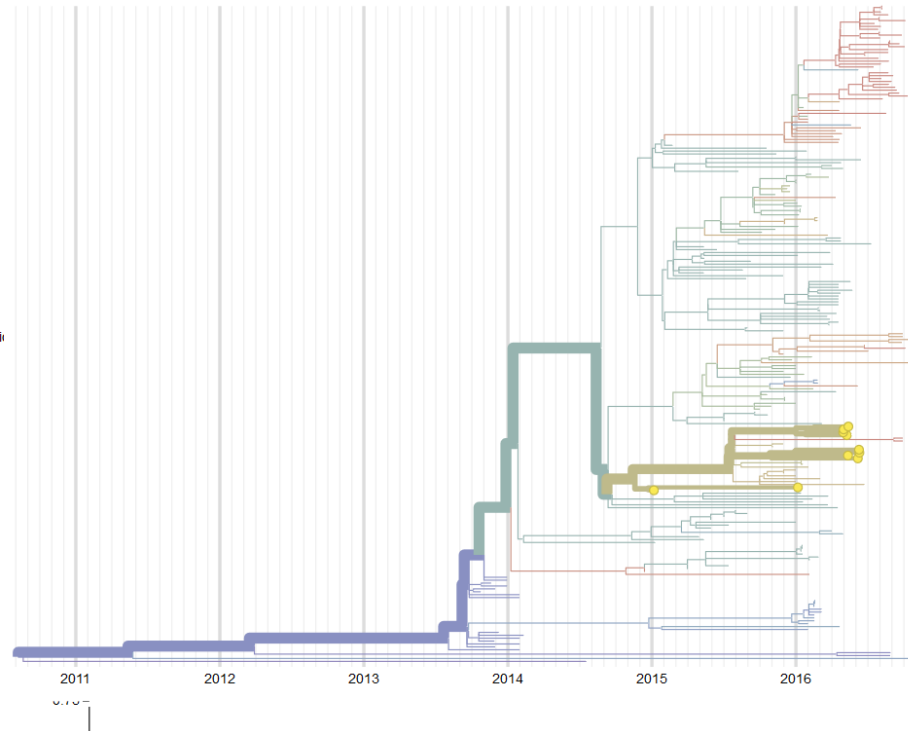
Or Genomic posi

branch labels

timetree

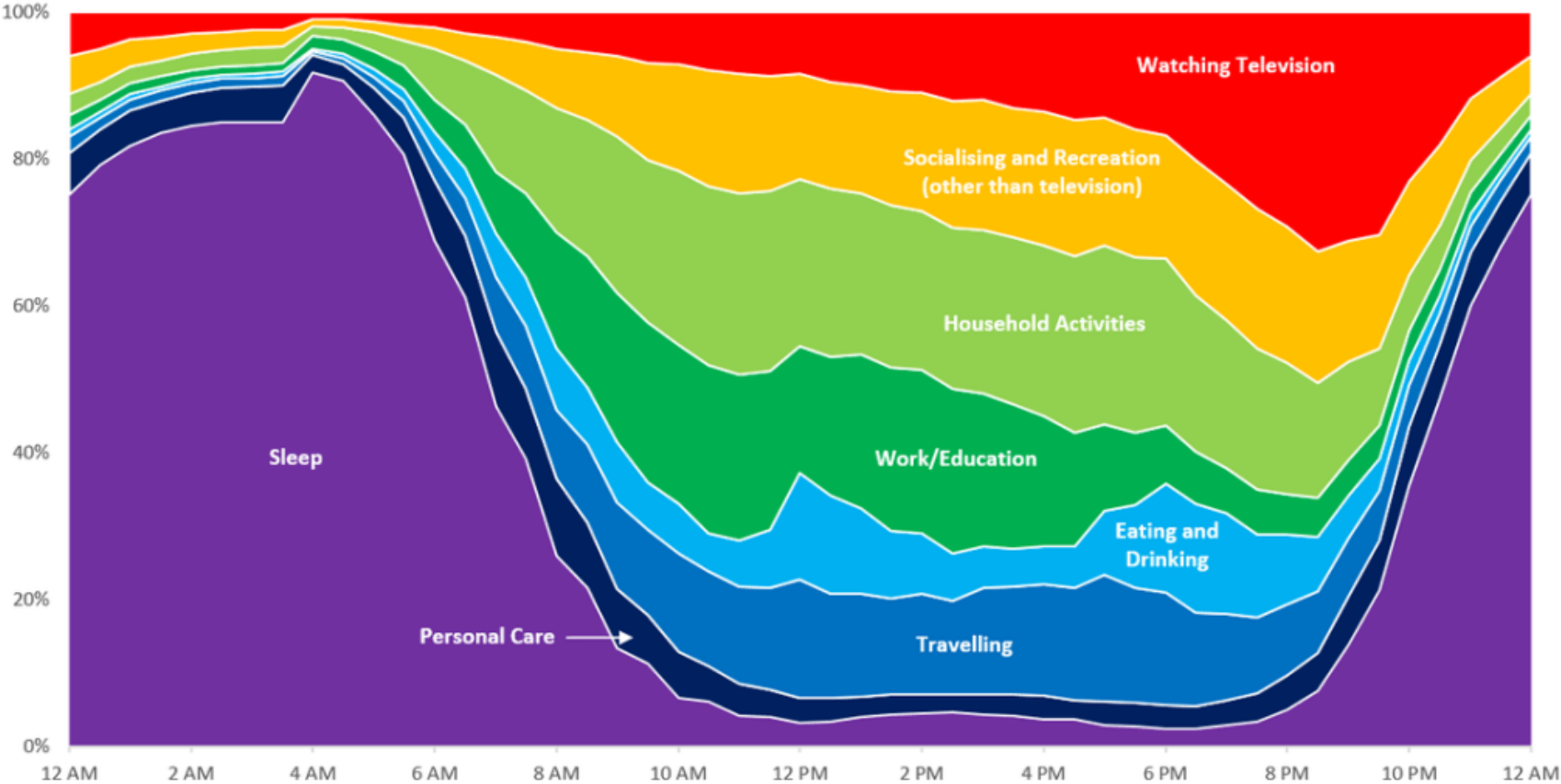
Country Honduras ▾

Region all ▾



Randy Olson

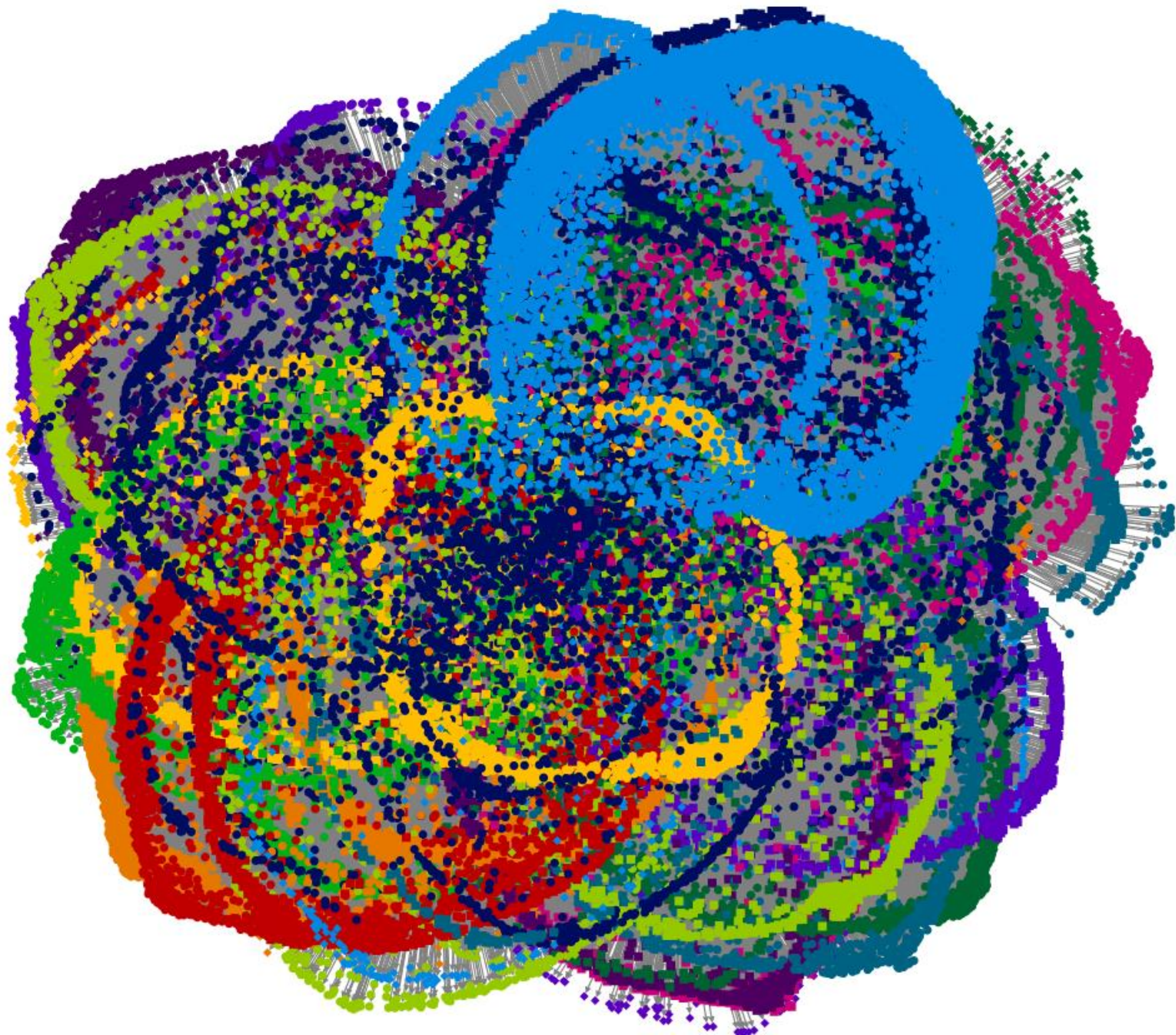
How Americans Spend Their Day



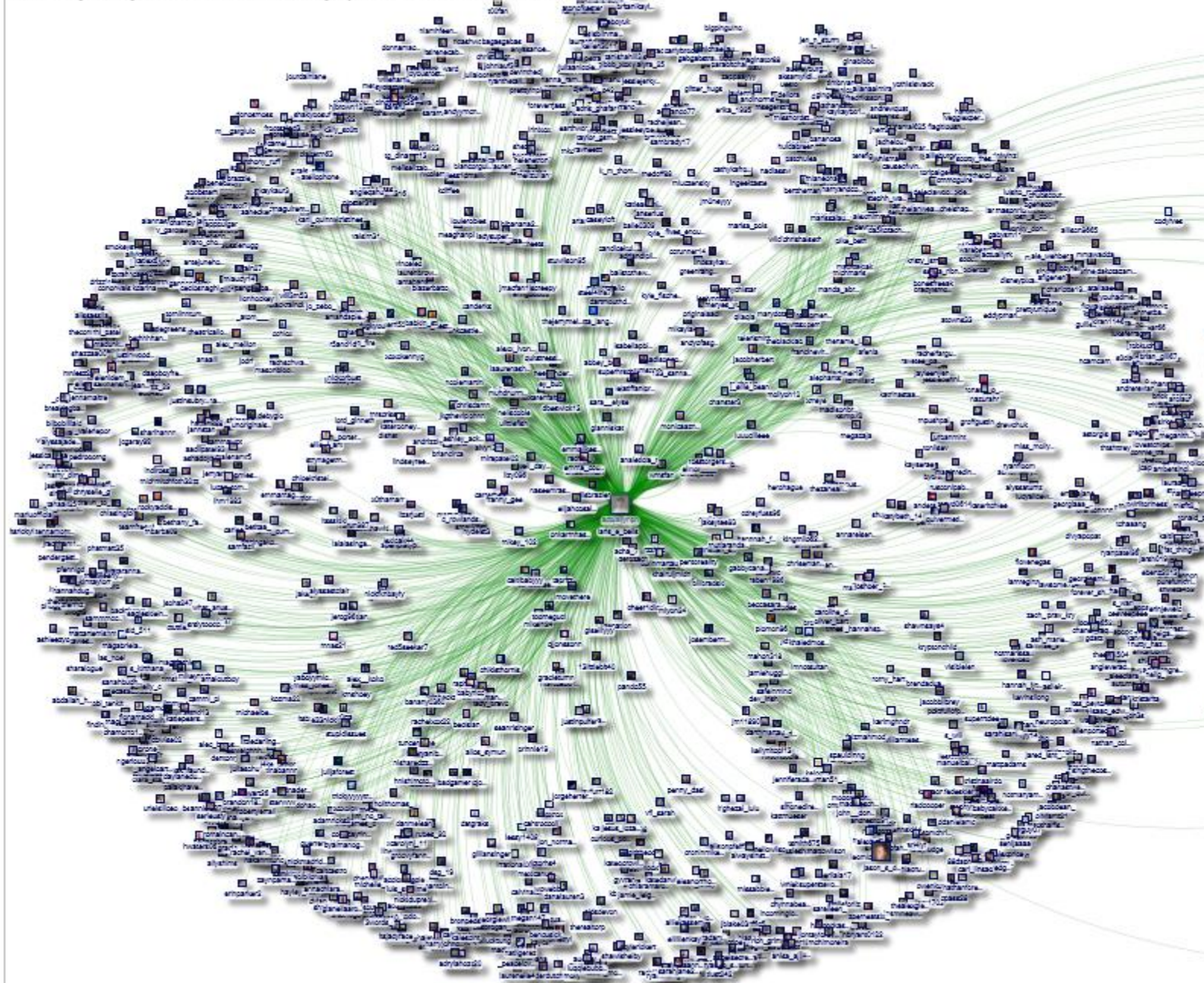
# Randy Olson

- Herd Immunity <http://imgur.com/a/8M7q8>
- Largest cities over time  
[https://www.reddit.com/r/dataisbeautiful/comments/5jiia1/animated map shows location of worlds largest/](https://www.reddit.com/r/dataisbeautiful/comments/5jiia1/animated_map_shows_location_of_worlds_largest/)

Ne vždy jsou vizualizace  
použitelné 😊



G1: holy moly met mother actuallynph final finished initial read thru



G2: met mother read alydenisof today having last table carter craig



G3: met mother alyson hannigan watching first day books gig mother



G4: luke5s... G5: math... G6: mic...



# Misleading representations

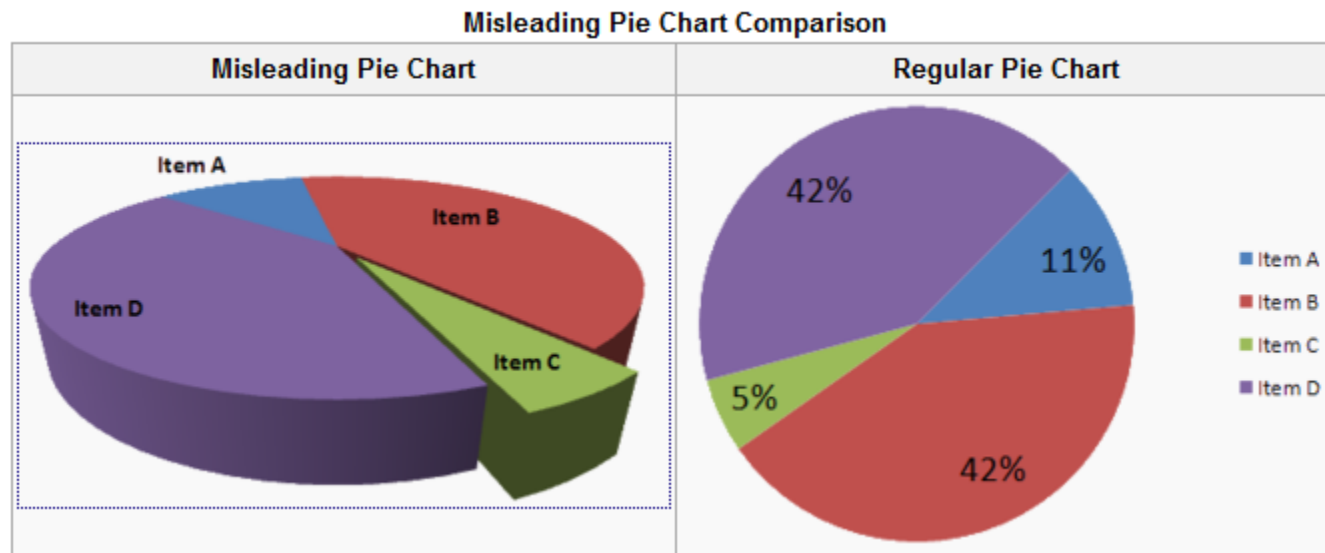




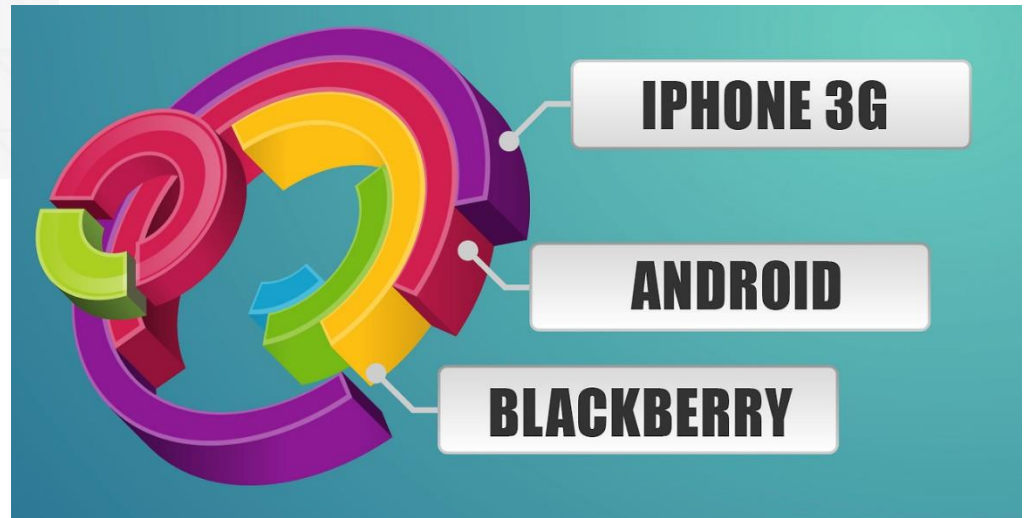
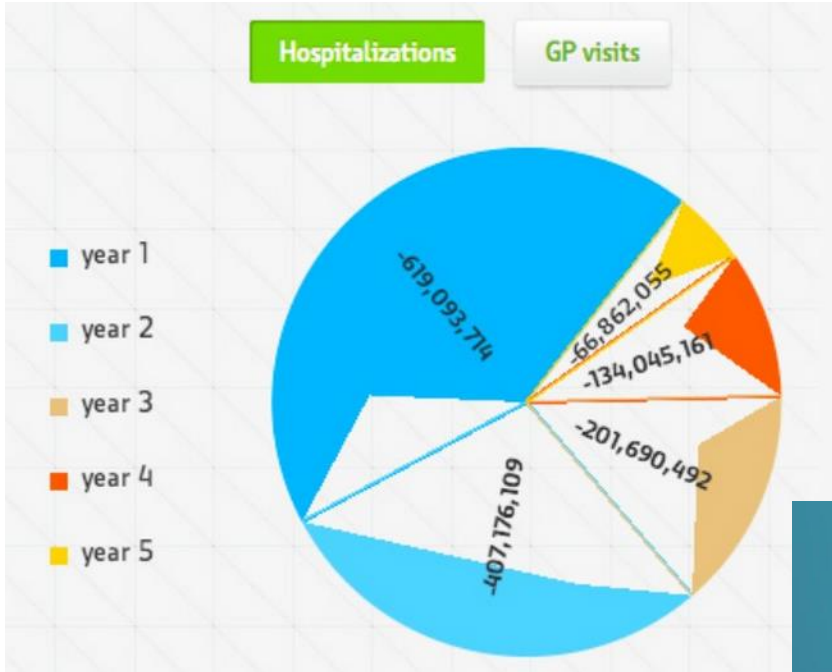
# Misleading representations

- Other examples:

[http://en.wikipedia.org/wiki/Misleading\\_graph](http://en.wikipedia.org/wiki/Misleading_graph)

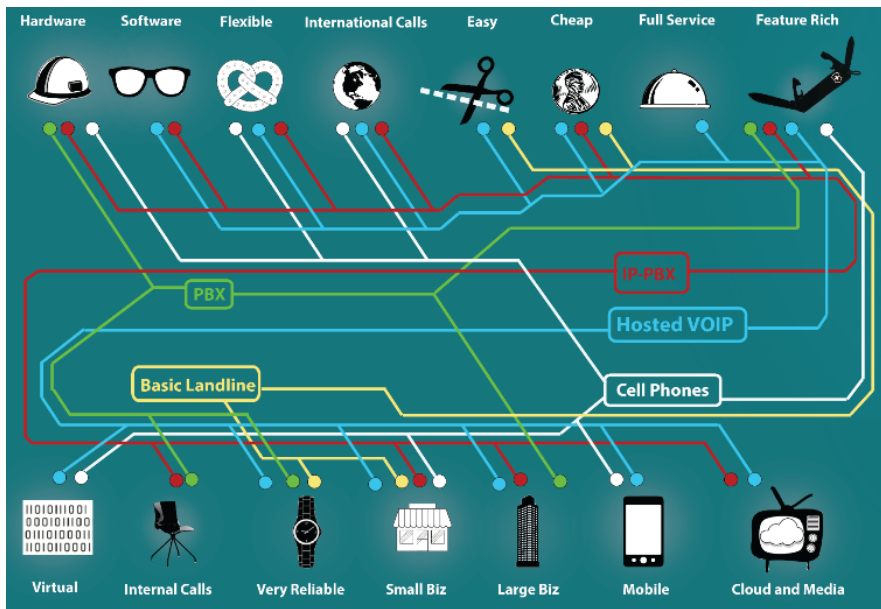


# Nonsense visualizations



# Nonsense visualizations

More here: <http://wtfviz.net/>



## HOW BABY BOOMERS DESCRIBE THEMSELVES

