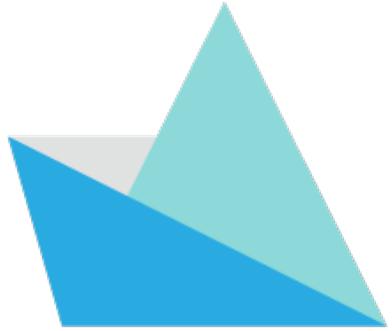


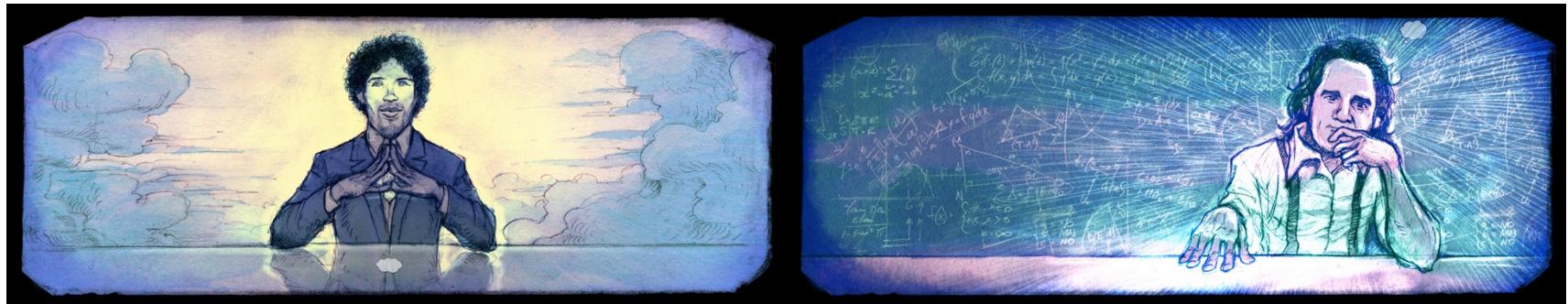
Presentatie Fontys

Introductie

- Over orikami
- Examples
- Challenge(s)

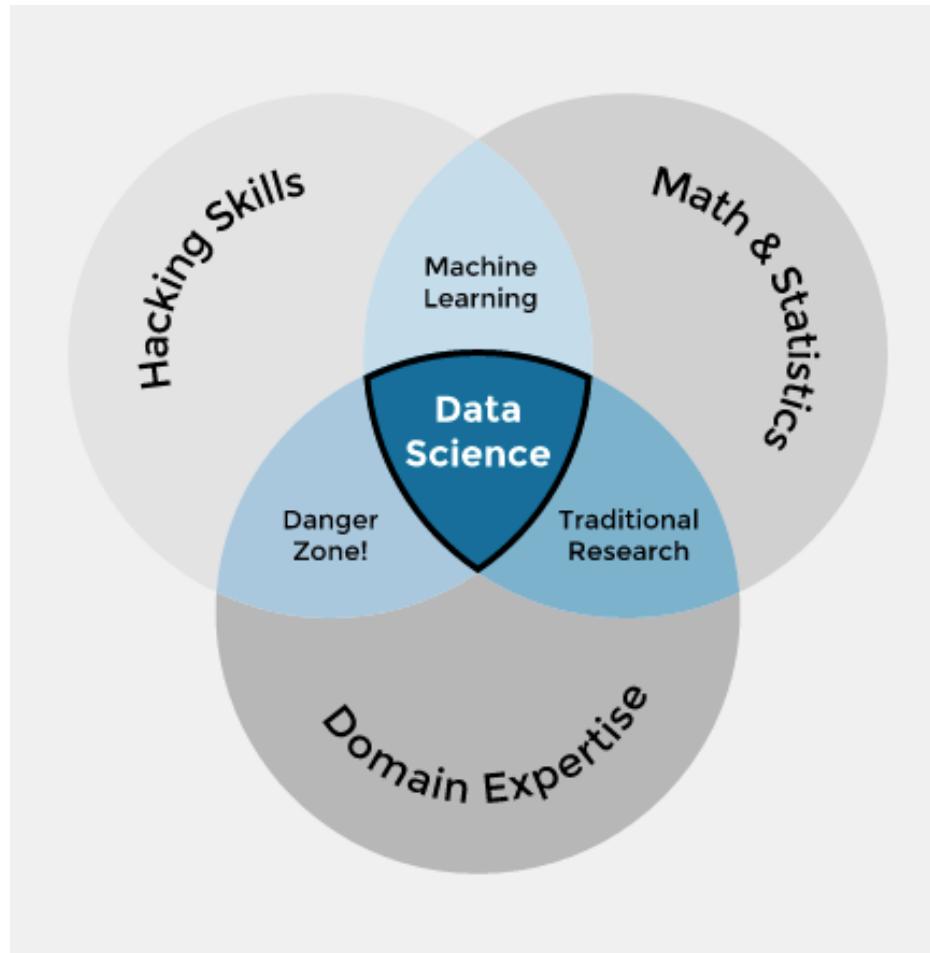


orikami
data science boutique



Wij geloven dat er meer uit data te halen is!

Vakmanschap



Team



Big Data

- Cluster on commodity hardware (low cost)
- Real-time pipelines
- Availability of Super Computer
- All open-source! No vendor lock-in...



Overview

- Over orikami
- Examples
- The challenge

U-map institutional Profile

University of Muenster

Download profile Download sunbursts

Location
Muenster, Germany
Founding Year
1780 (Oldest part founded: 1780)
Website
<http://www.uni-muenster.de/en/>
Character
Public

Mission Statement
WWU Münster has developed a strong research profile in natural sciences, the humanities, medicine, law and business administration. It takes top-level research in its performance areas and combines this with promoting first-class young researchers. At the same time, by ensuring that broad research can be carried out, it creates a secure basis on which excellence can thrive. WWU Münster's aims in the field of research are closely linked with its own commitment to provide high-quality courses of study covering a wide range of subjects. It has taken a pioneering lead in changing the transition to the doctoral research degree from a bachelors' a bachelors' up to a masters' level. The introduction of programmes for structured doctoral courses represents the third step in the realisation of the objectives set out in the Bologna process. WWU thus provides the best possible teaching on the basis of high-quality broad and top-level research. The WWU Münster organises the promotion of outstanding academic junior researchers in graduate schools which provide structured doctoral courses. Moreover the university creates and strengthens gender equality in all its areas of activity. This is particularly important in the promotion of young researchers and the creation of junior professorships in order to strengthen the links between postgraduate education and research. WWU Münster considers gender equality to be a task of strategic importance. The aim is to make it easier for women to combine an academic career and family interests. It is in combination with the high quality of life offered by the Münster region that the university hopes to reap benefits in recruiting brilliant researchers in the future. WWU's second strategic objective in the field of gender mainstreaming is to apply suitable measures to strengthen women's social qualifications in pursuing academic careers.

Data refers to 2014 and expires in 2020

Graduates by educational field

A pie chart titled "Graduates by educational field" showing the distribution of graduates across various fields. The fields and their approximate proportions are: Education (orange, ~35%), Business and law (light blue, ~15%), Social sciences (light green, ~10%), Natural sciences, mathematics and statistics (dark blue, ~10%), Humanities and arts (red, ~5%), Informatics and communication technologies (yellow, ~5%), Engineering, manufacturing and construction (purple, ~5%), Agriculture, forestry, fisheries and veterinary (pink, ~5%), Health and welfare (dark purple, ~2%), Services (dark teal, ~2%), and Other (light yellow, ~2%).

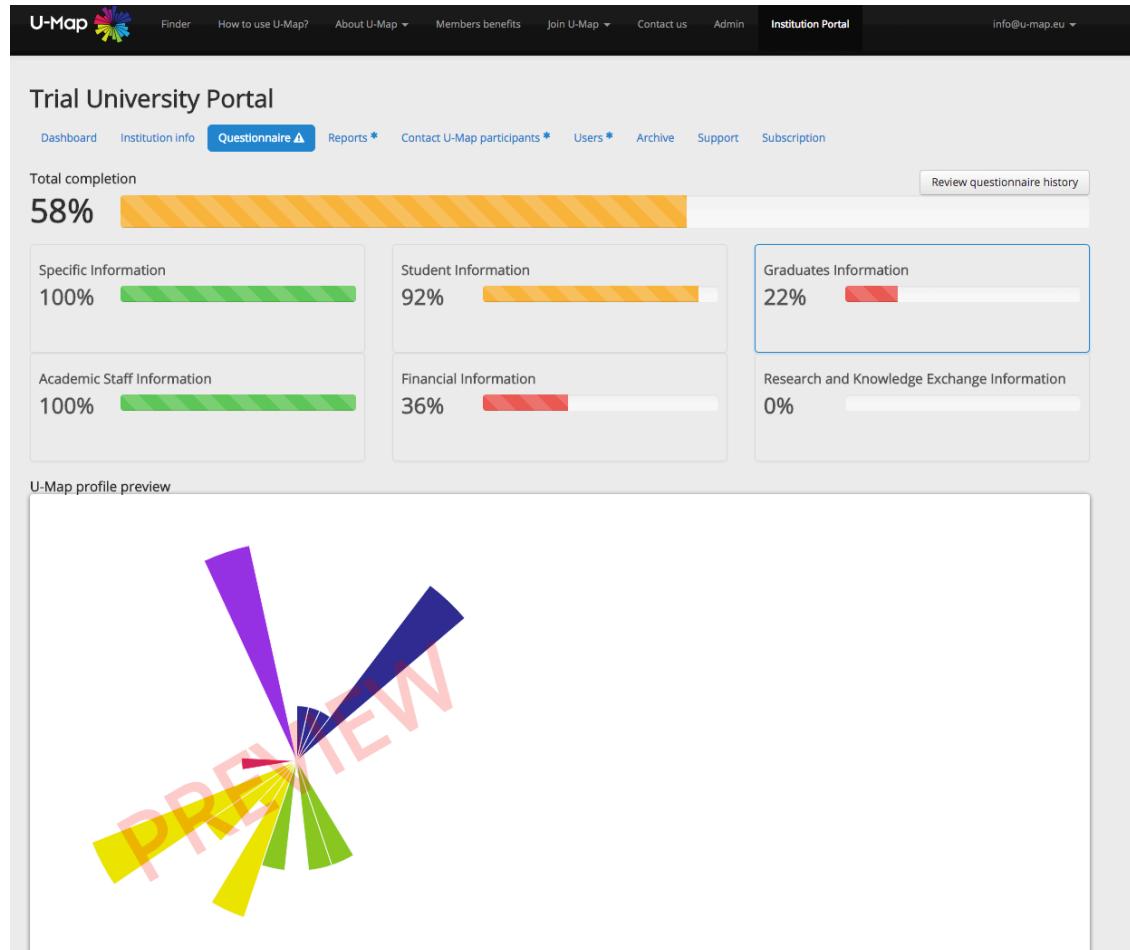
Legend:

- Education
- Humanities and arts
- Social sciences
- Business and law
- Natural sciences, mathematics and statistics
- Informatics and communication technologies
- Engineering, manufacturing and construction
- Agriculture, forestry, fisheries and veterinary
- Health and welfare
- Services
- Other

Universities with similar profiles

Small sunburst charts for similar universities: Technische Universität München, University of Cyprus, University of Kassel, Hokkaido University, WU Vienna University of Economics and Business, University of Humanistic Studies, and The University of Tokyo. A right-pointing arrow indicates more universities are available.

U-map questionnaire completion overview



Vertrouwelijk

U-Map

U-Map is an ongoing project in which the European classification of higher education institutions is further developed. Using a multidimensional ranking, you can compare all participating higher education institutions across Europe.

Data product

Together with the Center for Higher Educational Policy Studies, an institute linked to the University of Twente, we've developed a web application that maps universities on 29 dimensions.

The data application lets you search, filter and compare universities on all of these dimensions. Furthermore, the back-end is fully equipped for gathering standardized information about higher educational institutions in countries with different traditions and ways of presenting their data.

The U-Map application validates data input thoroughly.

Education profile			
Doctorate degrees awarded	0%	5.31%	0.51%
Master degrees awarded	7.04%	65.49%	17.19%
Bachelor degrees awarded	92.96%	29.2%	81.73%
Career oriented programmes	100%	63%	97%
Income from knowledge transfer	2.92%	7.07%	3.17%
Total enrolment	7035	565	11815
Exchange students incoming	3.24%	1.42%	1.76%
Research expenditure	21%	41.05%	3%
Graduates in the region	96%	13%	88%

Insight

The multidimensional classification is presented in an interactive and simple way.



New entrants from the region:
53%



New entrants from the region:
90%



New entrants from the region:
80%

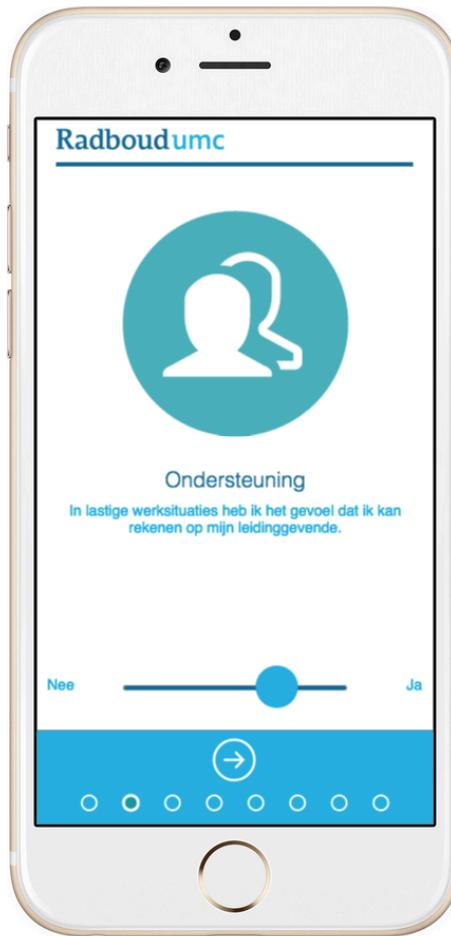
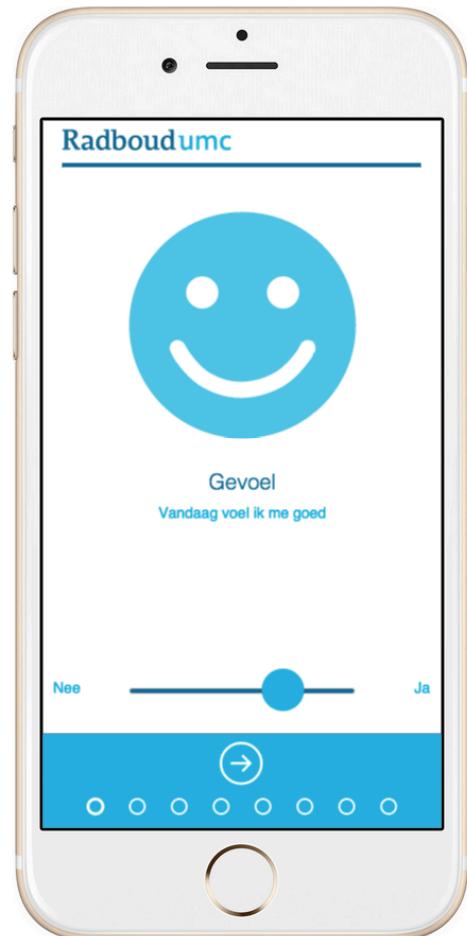
Intelligence

There is a lot of information in the 29 dimensional data of all universities. This data encloses connections between universities never seen before. We have developed a simple but efficient algorithm to discover and compare universities based on similarity.

Techniques used

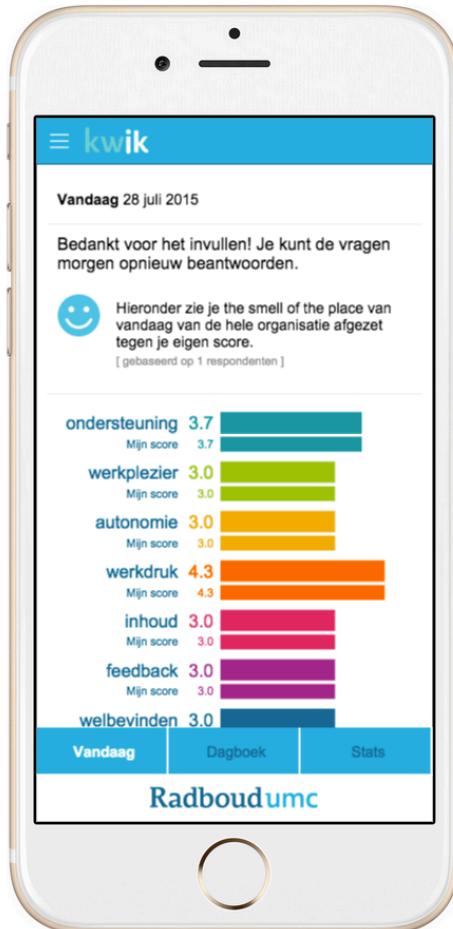
Ruby on Rails, Javascript, SVG, raphael.js, Nearest Neighbour algorithm, data visualisation, mongoDB, PostgreSQL

Kwik: moderne teamklimaat meting



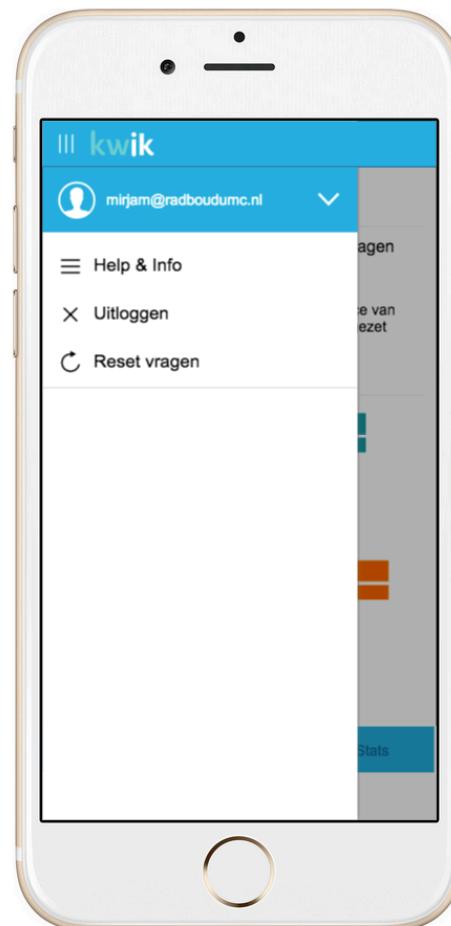
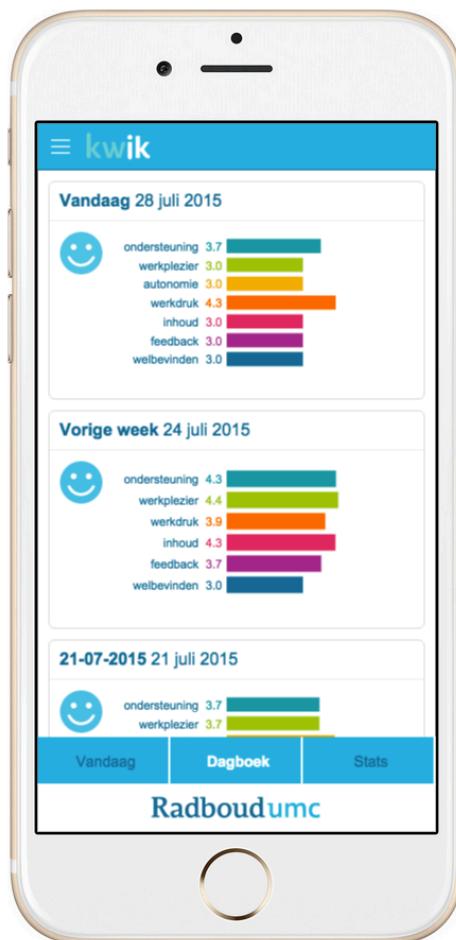
Vertrouwelijk

Kwik – de ‘smell’ van de dag



Vertrouwelijk

Kwik – dagboek, statistieken

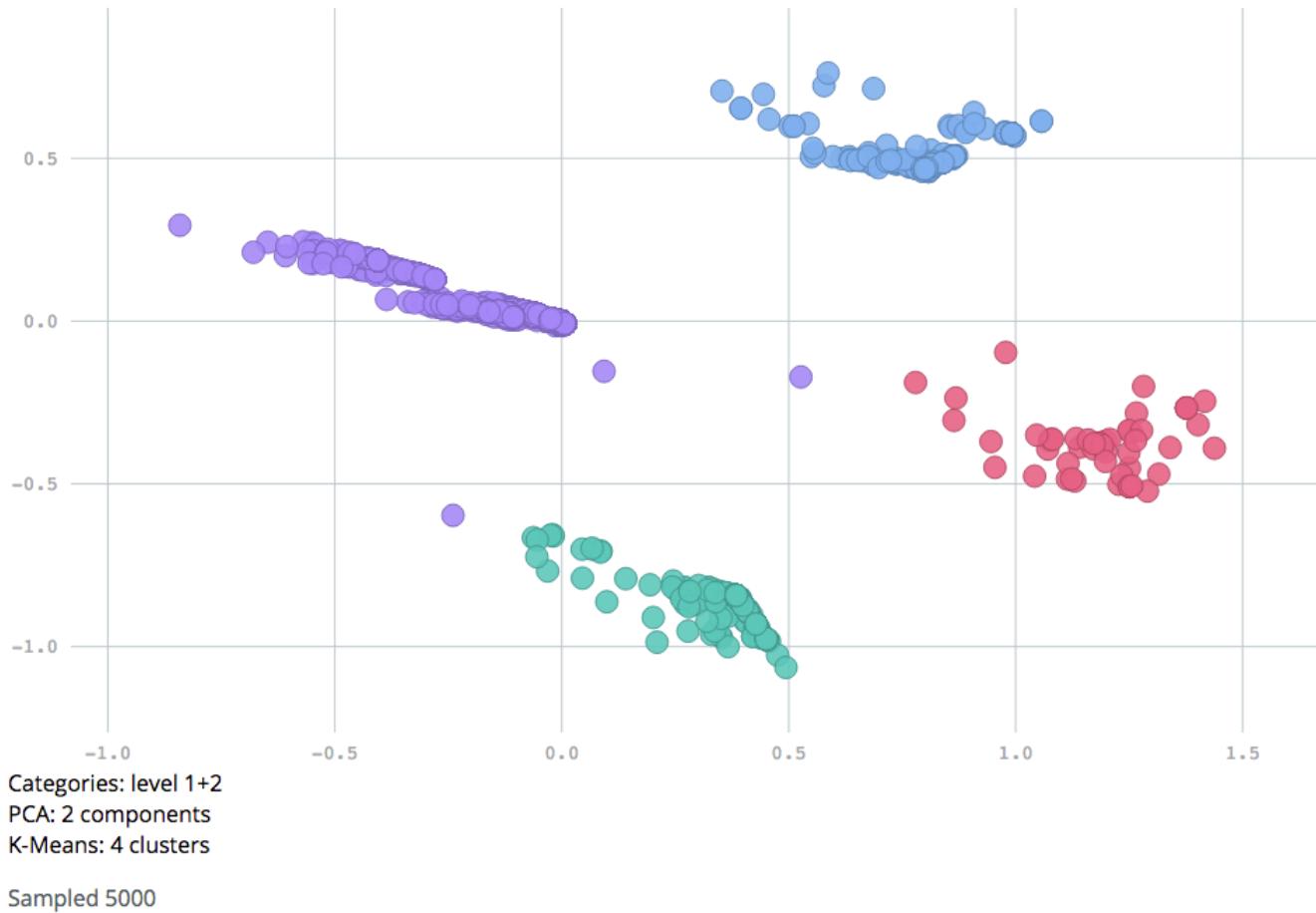


Vertrouwelijk

Kwik: visual feedback with lights



Cluster analysis beslist.nl



Mozart

Popularity of music should be measured in terms of what people really think about music.
Mozart taps into society to pick-up signals about what's hot and trending.

Data product

We are developing Mozart in collaboration with market research company DVJ insights.

Mozart keeps an eye on open sources like Twitter, Facebook, YouTube and Last.FM to learn what people are saying about music.

We combine this with specialized information from radio airplay, Spotify etcetera.

The final piece of information comes from a large user panel. We sample feedback from users about what they like.

Date	Artist	Title
ma. 28 jul. 2014 13:55	Big Mountain	Baby I Love Your Way
ma. 28 jul. 2014 13:55	mum	We Have a Map of the Piano
ma. 28 jul. 2014 13:55	The J. Geils Band	Land of a Thousand Dances
ma. 28 jul. 2014 13:55	Lasgo	Out of My Mind
ma. 28 jul. 2014 13:55	Within Reach	Enemy
ma. 28 jul. 2014 13:55	Brooklyn Express	Sixty-Nine
ma. 28 jul. 2014 13:55	Cheap Trick	California Man
ma. 28 jul. 2014 13:55	Quantic	Life in the Rain

Insight

Popularity of music should be measured in terms of what people think about music. Mozart keeps an ear on society to pick-up signals about what's hot and trending.



Intelligence

Mozart combines information about music from different sources for a particular market segment.

Our state of the art algorithms intelligently track music and make predictions about what is going to be popular.

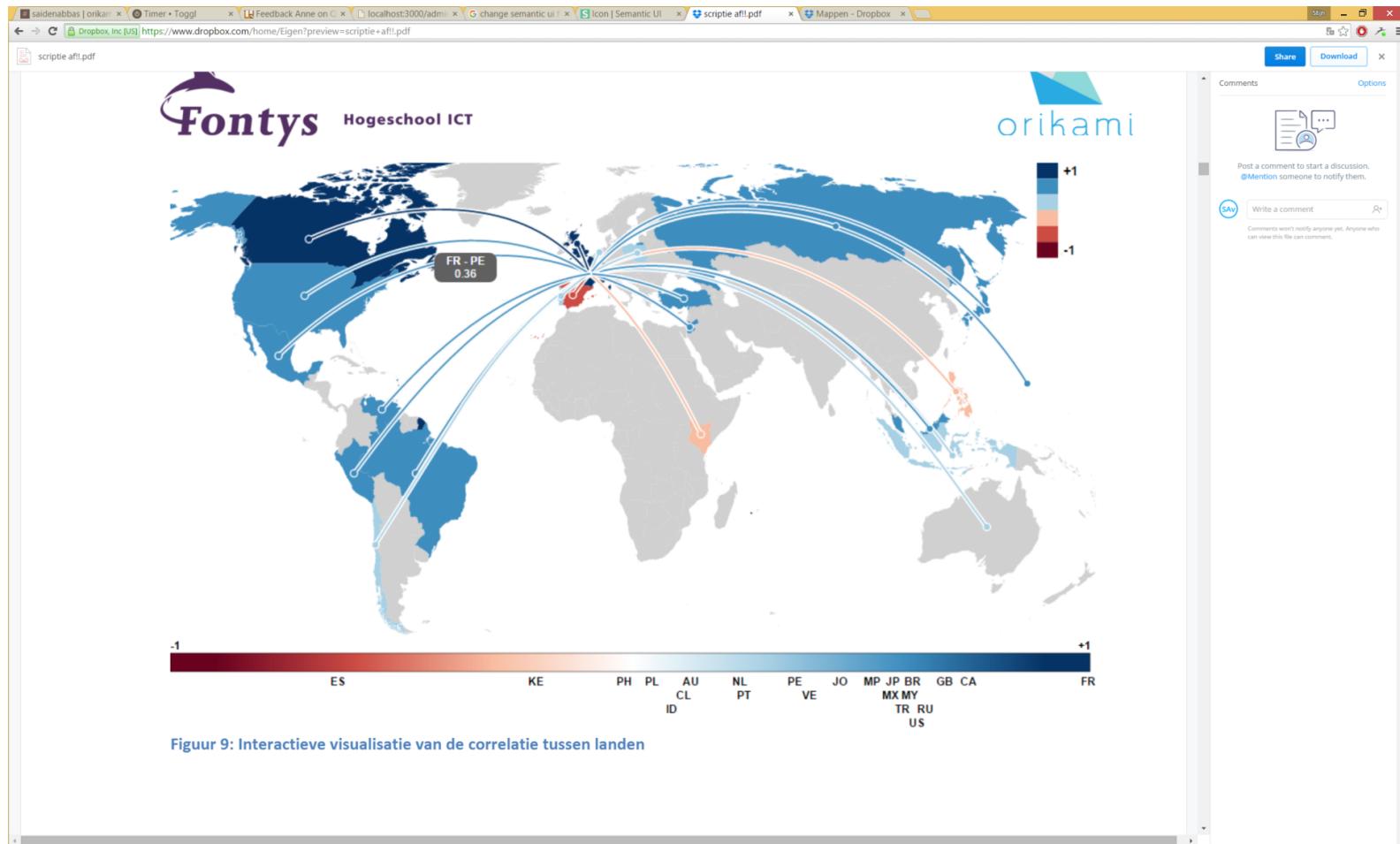
Furthermore, our algorithms calculate scores from the historic data of music and efficiently keep on updating these scores.

Last but not least, Mozart presents trends and predictions about music to users with simple graphs.

Techniques used

Twitter streaming API, Hadoop, Pig, Julia, Python, mongodb, Facebook API, Last.FM API, meteor.js

Mozart: country correlations



Figuur 9: Interactieve visualisatie van de correlatie tussen landen

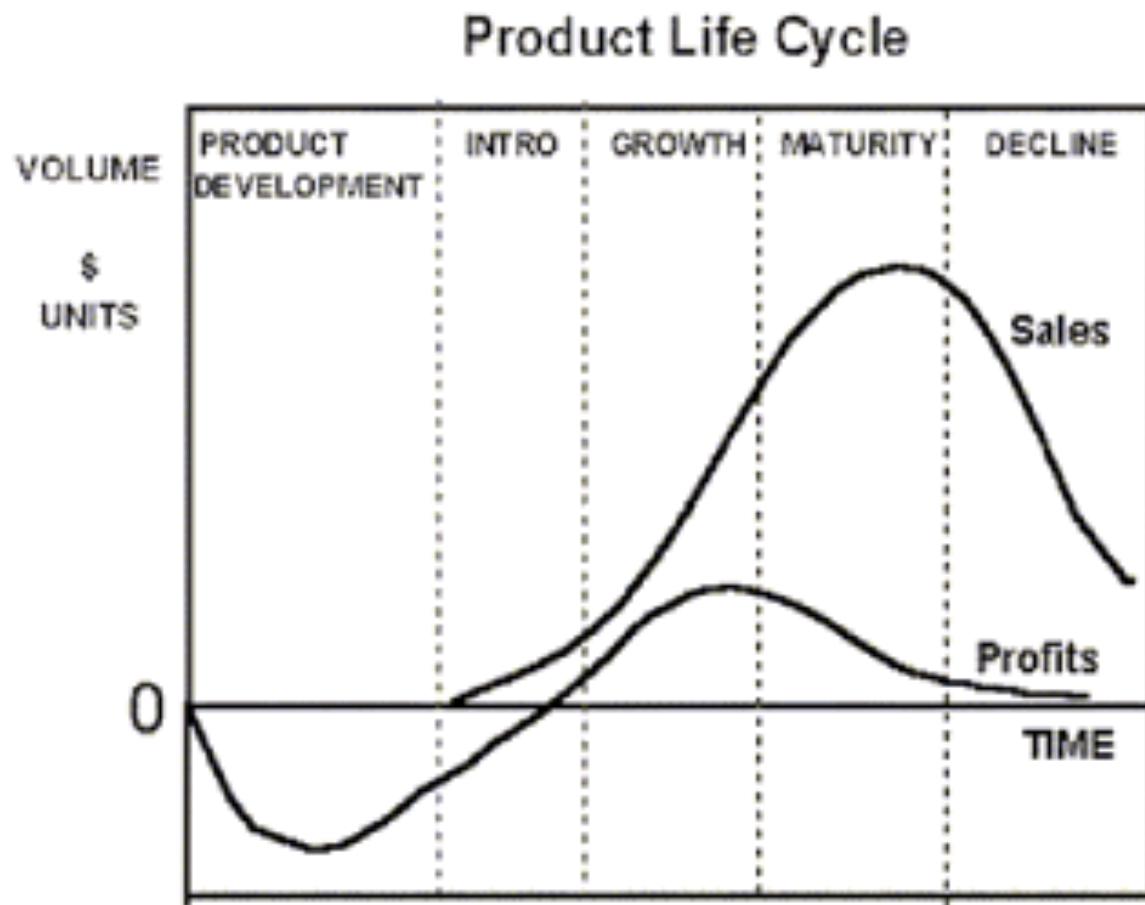
Overview

- Over orikami
- Examples
- The Challenge(s)

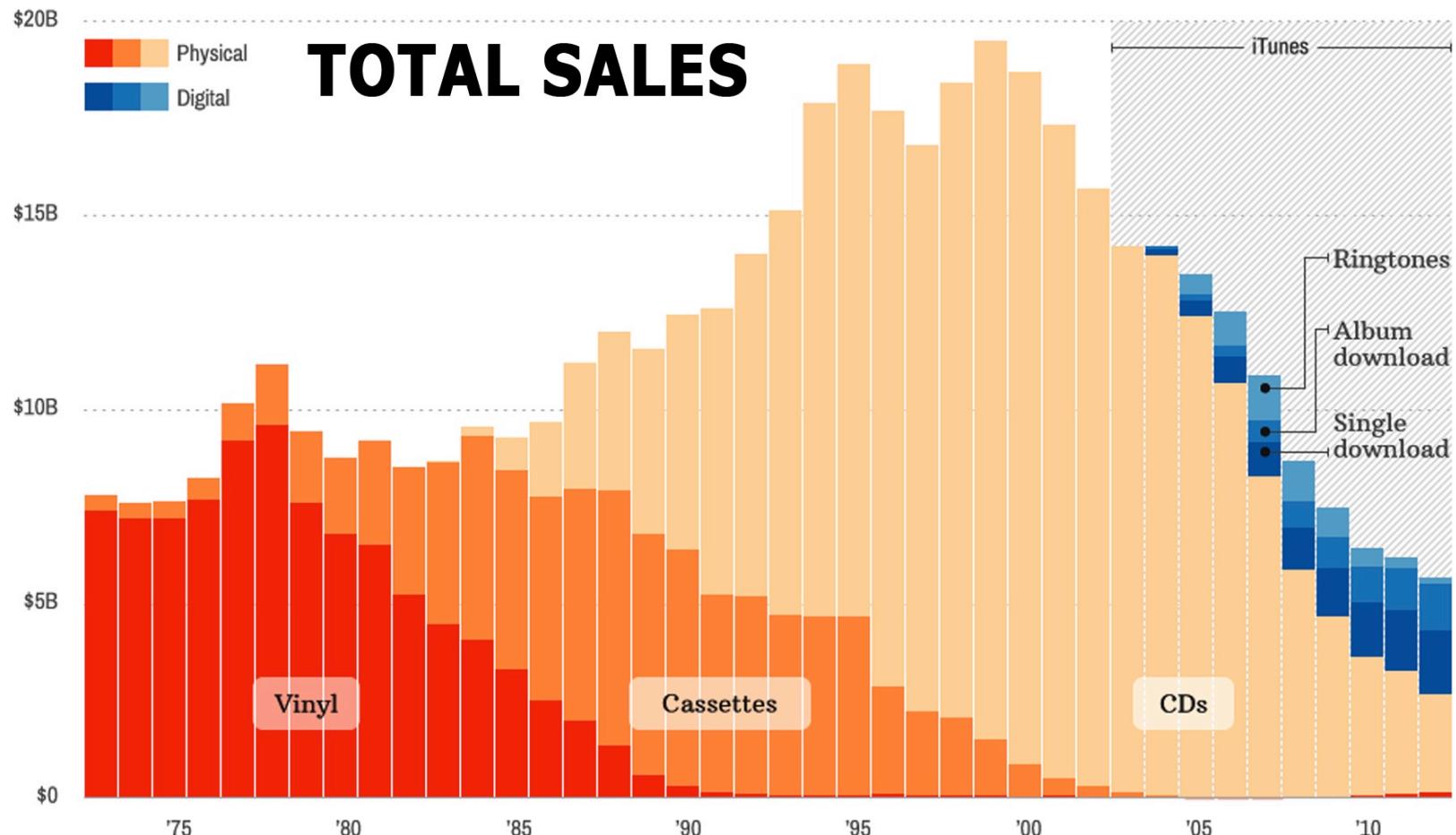
Challenge

Music life cycle

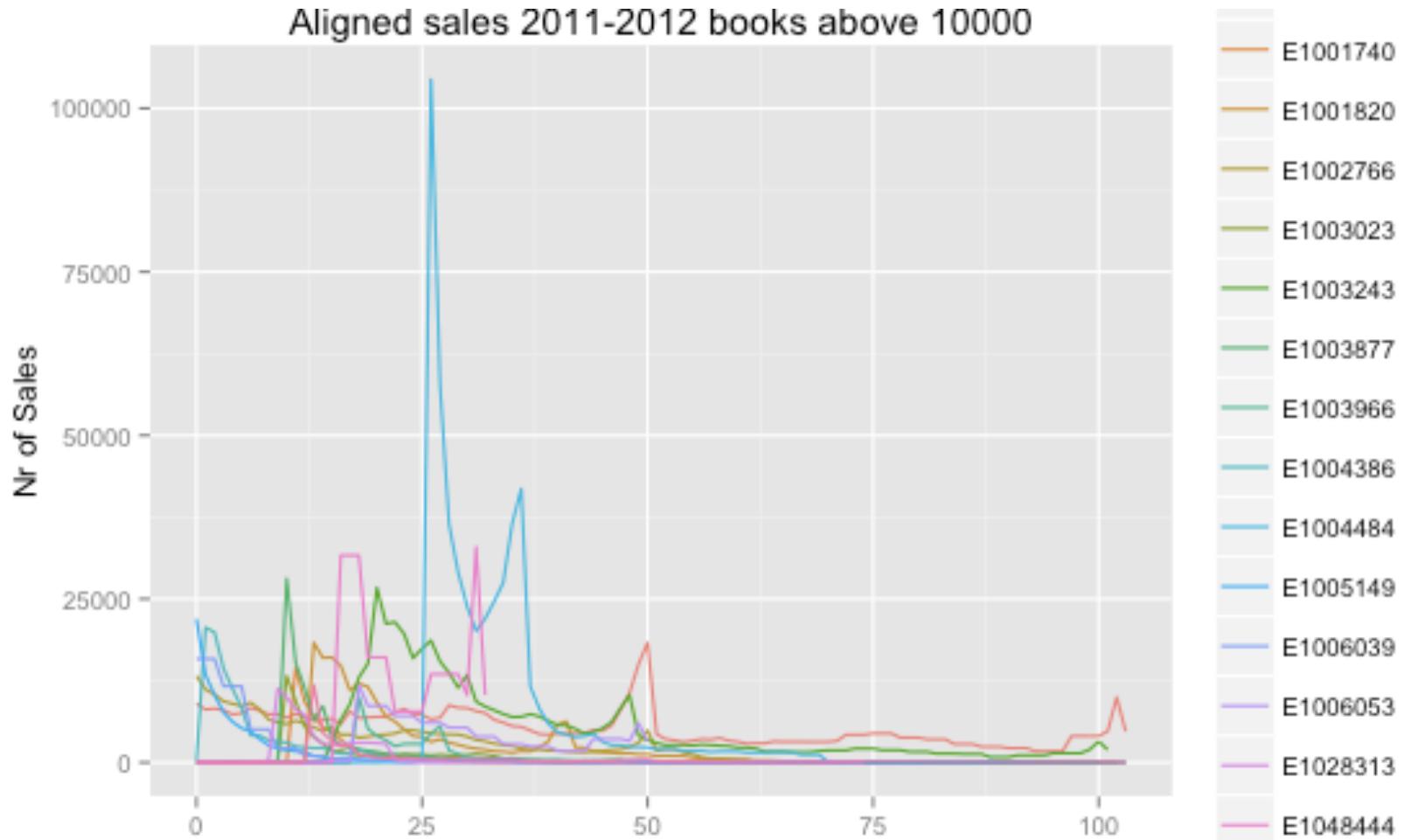
Life cycle



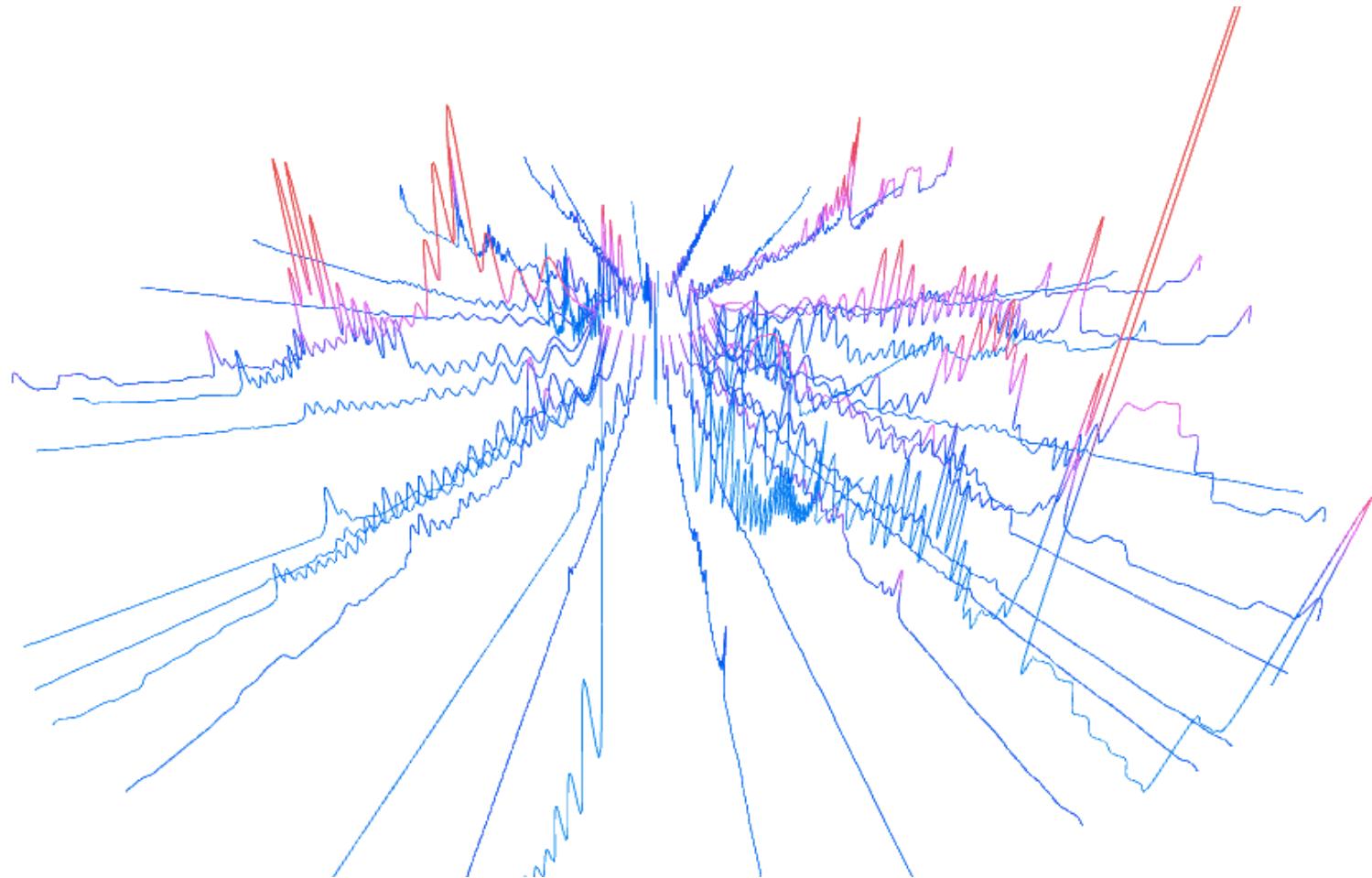
Product Life cycle



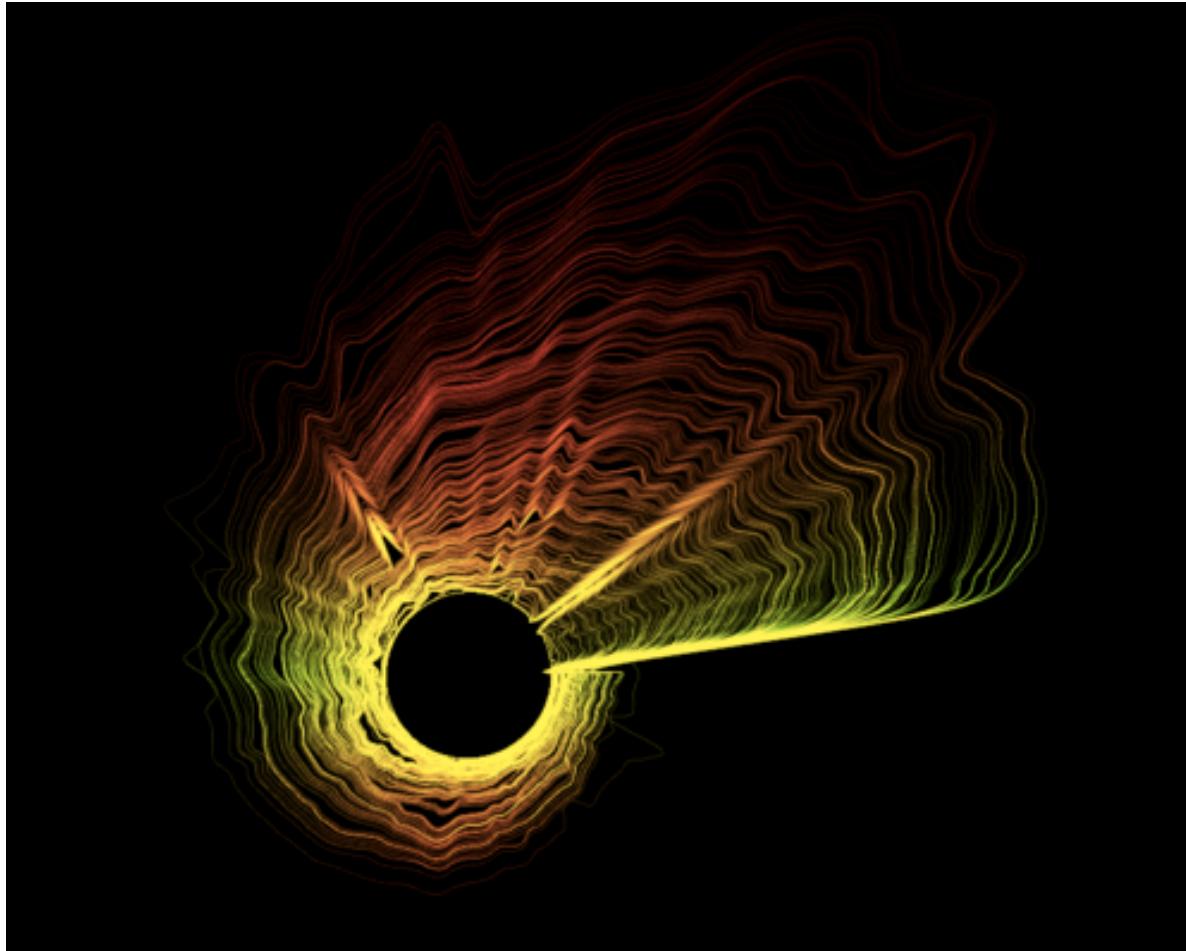
Life Cycle bestseller books



Life Cycle bestseller books



Life cycle bestseller books



Ingredienten

- 25 weeks panel data, 250 responses, 40 songs
- Twitter (#now playing) 20 weeks **65Miljoen**
 - <1% dutch!!
 - Aggregaties per dag, week en uur [WIP]
- Weekly charts
- MongoDB

Ideas

- Sentiment of tweets in life cycle?
- Getting tired of songs?
- Recognition saturation
- Template matching
- Clustering on different templates
 - E.g. popular artist vs non-popular artists

Ten slotte

- Meedere groepen?!
- Wees creatief
- Wees nieuwsgierig!
- Wij leveren support en toegangcodes tot databases!
- Contact: bram@orikami.nl / 0243010100

Vragen?



orikami
data science boutique

