INFORMATION AESTHETICS

Moritz Stefaner // Colloquium @ TU Dresden

March 22, 2010

Outline

Information Aesthetics

Eigene Arbeitsbeispiele

Methodik + workflow

Trends

Weiterführendes

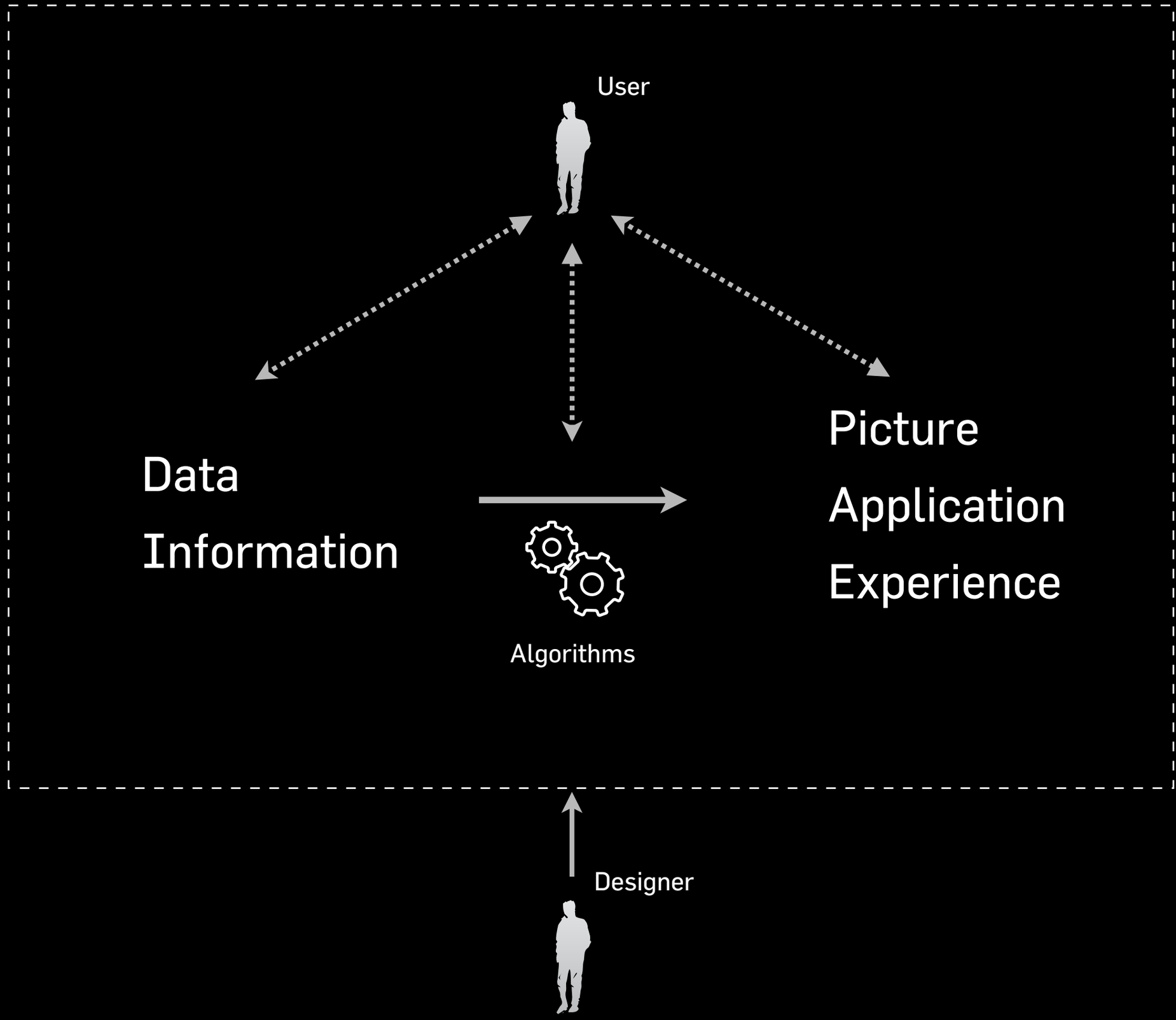
Background

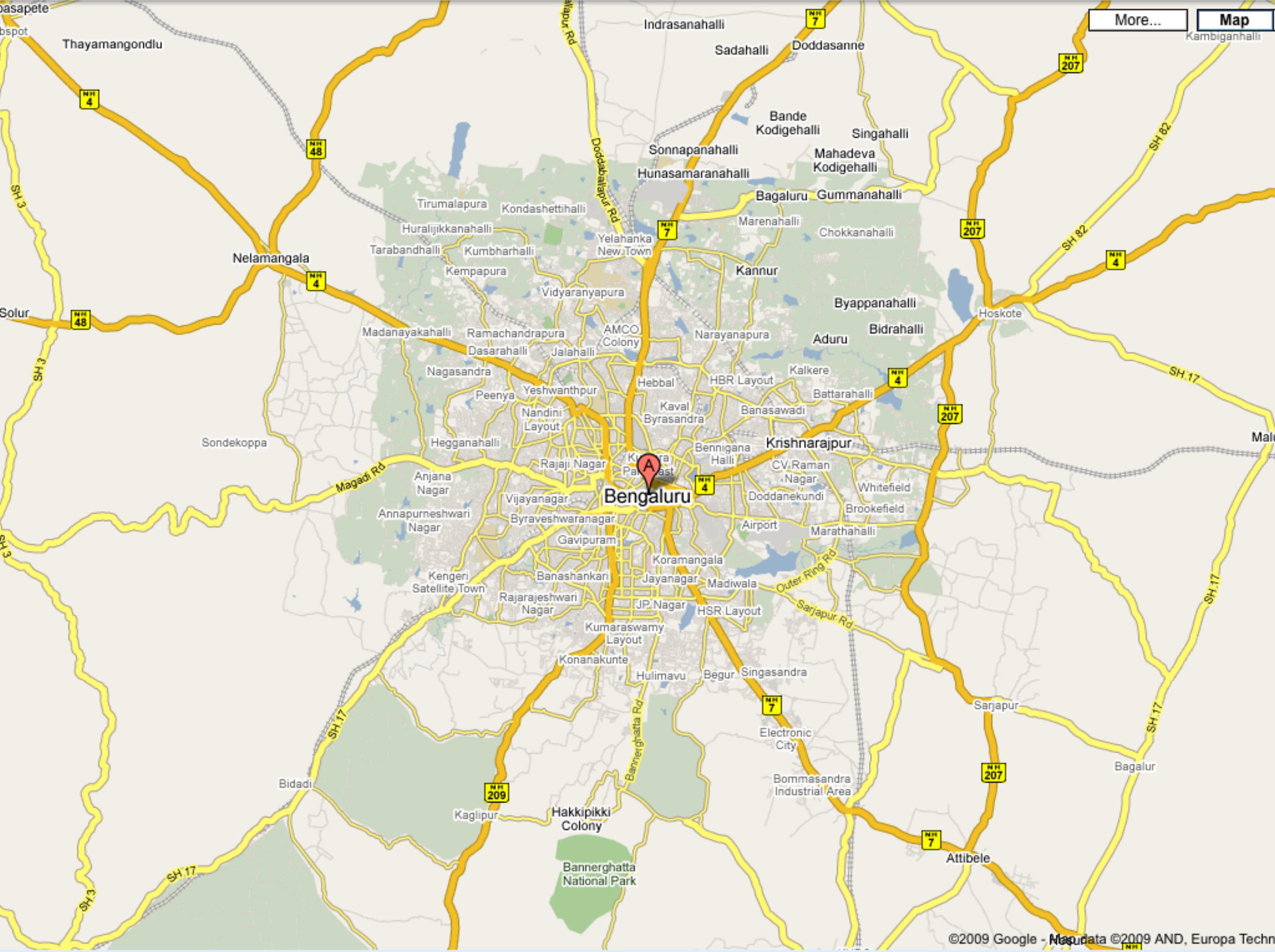
1998 – 2002	Web designer
2002 – 2005	BSc Cognitive Science
2005 – 2007	MA Interface Design
2007 – 2009	Research assistant FH Potsdam
2004 –	Freelance information visualizer working for Skype, World Economic Forum, Yahoo...

Works exhibited at ars electronica, SIGGRAPH, ...

Nominated for the Design Award of the Federal Republic of Germany 2010


Designer
Information
Picture


User
Data
Information
Picture
Application
Experience
Algorithms
Designer


More...
Map
Thayamangondlu
Indrasanahalli
Sadahalli
Doddasanne
Kambiganhalli
Bande Kodigehalli
Singahalli
Sonnapanahalli
Mahadeva Kodigehalli
Hunasamaranahalli
Bagaluru
Gummanahalli
Tirumalapura
Kondashettihalli
Huralijikkanahalli
Tarabandhalli
Kumbharhalli
Kempapura
Yelahanka New Town
Marenahalli
Chokkanahalli
Nelamangala
Kannur
Vidyaranyapura
Byappanahalli
Hoskote
Solur
Madanayakahalli
Ramachandrapura
AMCO Colony
Narayanapura
Bidrahalli
Aduru
Dasarahalli
Jalahalli
Nagasandra
Kalkere
Hebbal
HBR Layout
Peenya
Yeshwanthpur
Battarahalli
Nandini Layout
Kaval Byrasandra
Banasawadi
Sondekoppa
Hegganahalli
Bennigana Halli
Krishnarajpur
Rajaji Nagar
CV Raman Nagar
Anjana Nagar
Whitefield
Vijayanagar
Doddanekundi
Bengaluru
Brookefield
Annapurneshwari Nagar
Byraveshwaranagar
Airport
Marathahalli
Gavipuram
Koramangala
Kengeri Satellite Town
Banashankari
Jayanagar
Madiwala
Outer Ring Rd
Rajarajeshwari Nagar
JP Nagar
HSR Layout
Sarjapur Rd
Kumaraswamy Layout
Konanakunte
Hulimavu
Begur
Singasandra
Electronic City
Sarjapur
Bidadi
Bannerghatta Rd
Bommasandra Industrial Area
Bagalur
Kaglipur
Hakkipikki Colony
Attibele
Bannerghatta National Park
Magadi Rd
SH 3
SH 17
SH 82
NH 4
NH 7
NH 48
NH 207
NH 209
©2009 Google - Mapdata ©2009 AND, Europa Techn

OpenStreetMap

IIM, Bangalore, India #1

16 February 2008

Creative Commons CC-BY-SA 2.0

ONE YEAR OF OPEN STREET MAP EDITS



The datarati

“The ability to take data, to be able to understand it, to process it, to extract value from it, to visualize it, to communicate it – thats going to be a hugely important skill in the next decades.

[…] Statisticians are part of it, but […] you also want to be able to visualize the data, communicate the data, and utilize it effectively.”

Hal Varian, Chief Economist at Google

http://www.mckinseyquarterly.com/Hal_Varian_on_how_the_Web_challenges_managers_2286

AESTHETICS

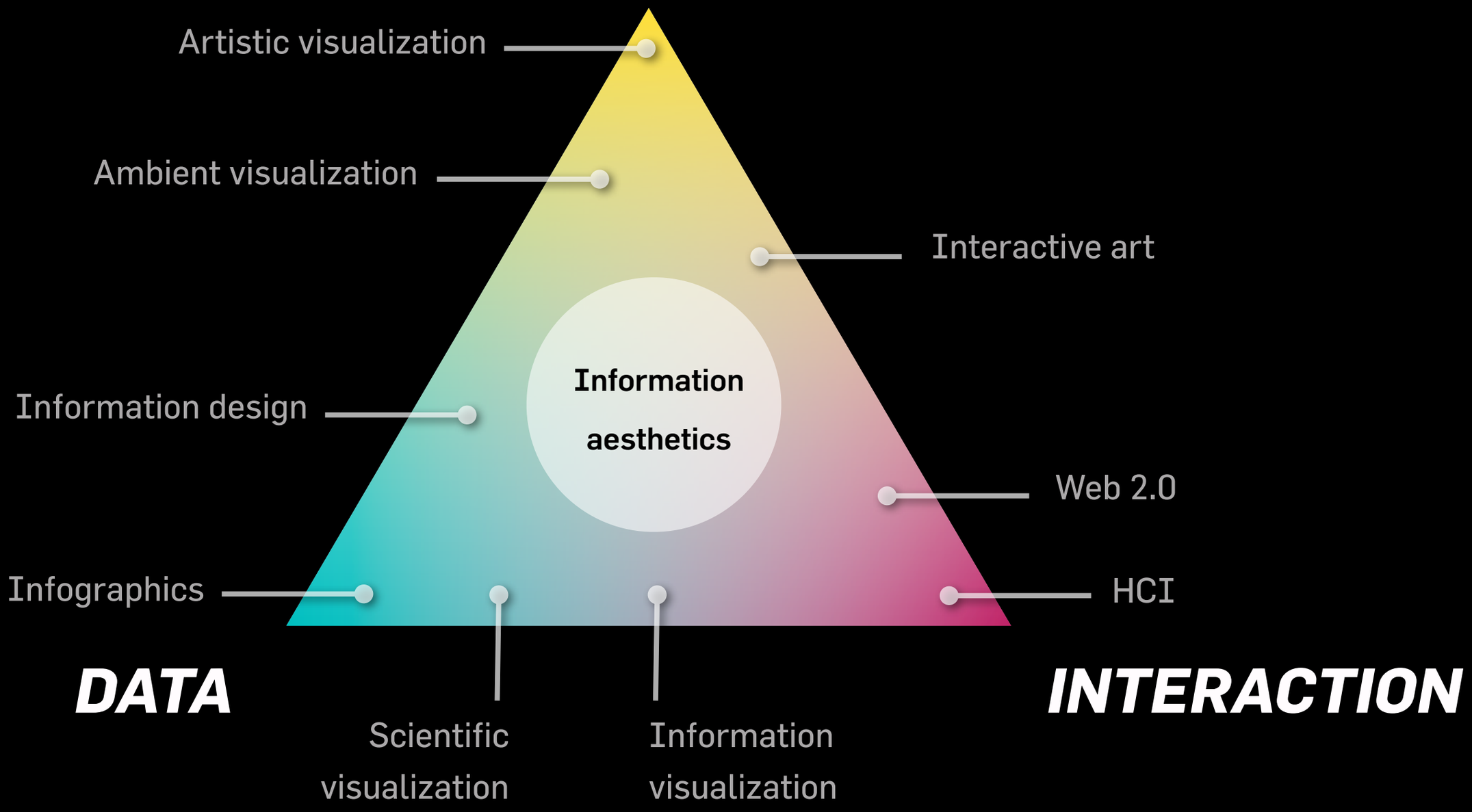


Illustration by Moritz Stefaner, based on Lau & Vande Moere (2006): Towards a Model of Information Aesthetics in Information Visualization

DEVELOPING COUNTRIES: PERCENT OF CENTRAL GOVERNMENT SPENDING ALLOCATED TO EDUCATION

2%

INDUSTRIALIZED COUNTRIES: PERCENT OF CENTRAL GOVERNMENT SPENDING ALLOCATED TO EDUCATION

4%

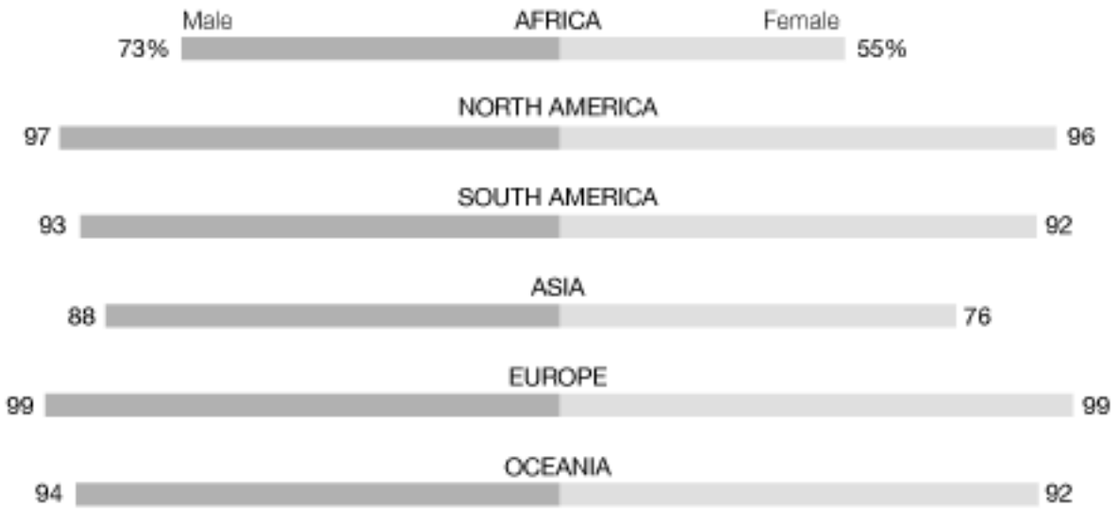
IRAN: PERCENT OF SCHOOLS THAT PROVIDE LIFE SKILLS-BASED HIV EDUCATION

0%

SOUTH AFRICA: PERCENT OF SCHOOLS THAT PROVIDE LIFE SKILLS-BASED HIV EDUCATION

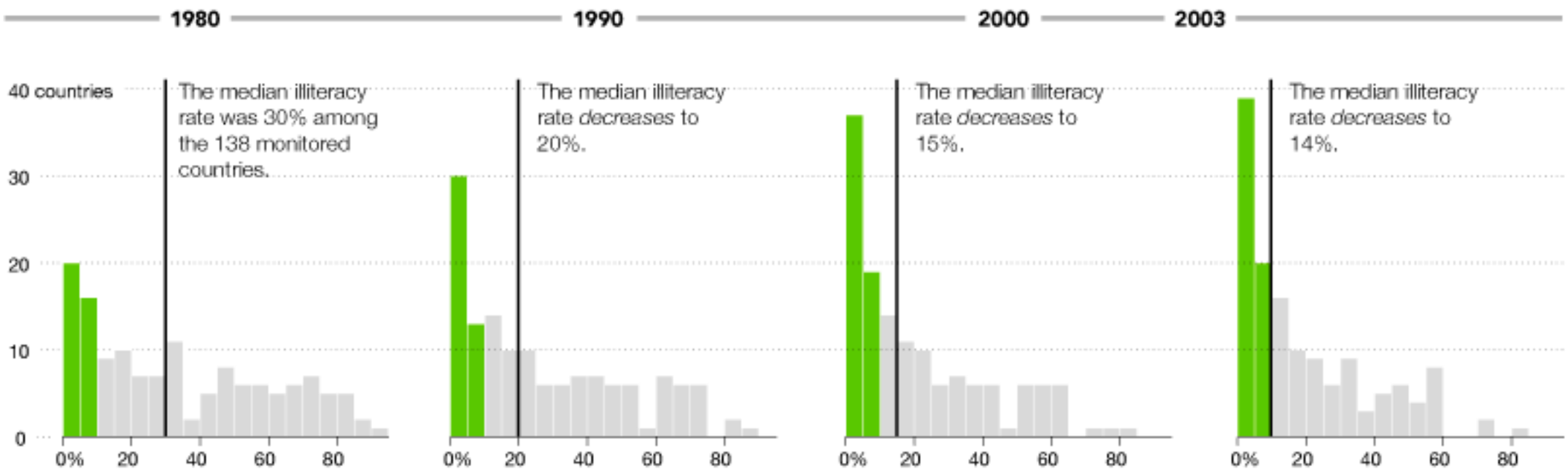
96%

MALE AND FEMALE LITERACY RATES, 2005-2007



ILLITERACY RATES FOR ADULTS AGED 15 AND OLDER, 1980-2003

According to UNESCO Institute for Statistics, the percentage of people in the world who cannot read has decreased since 1980.



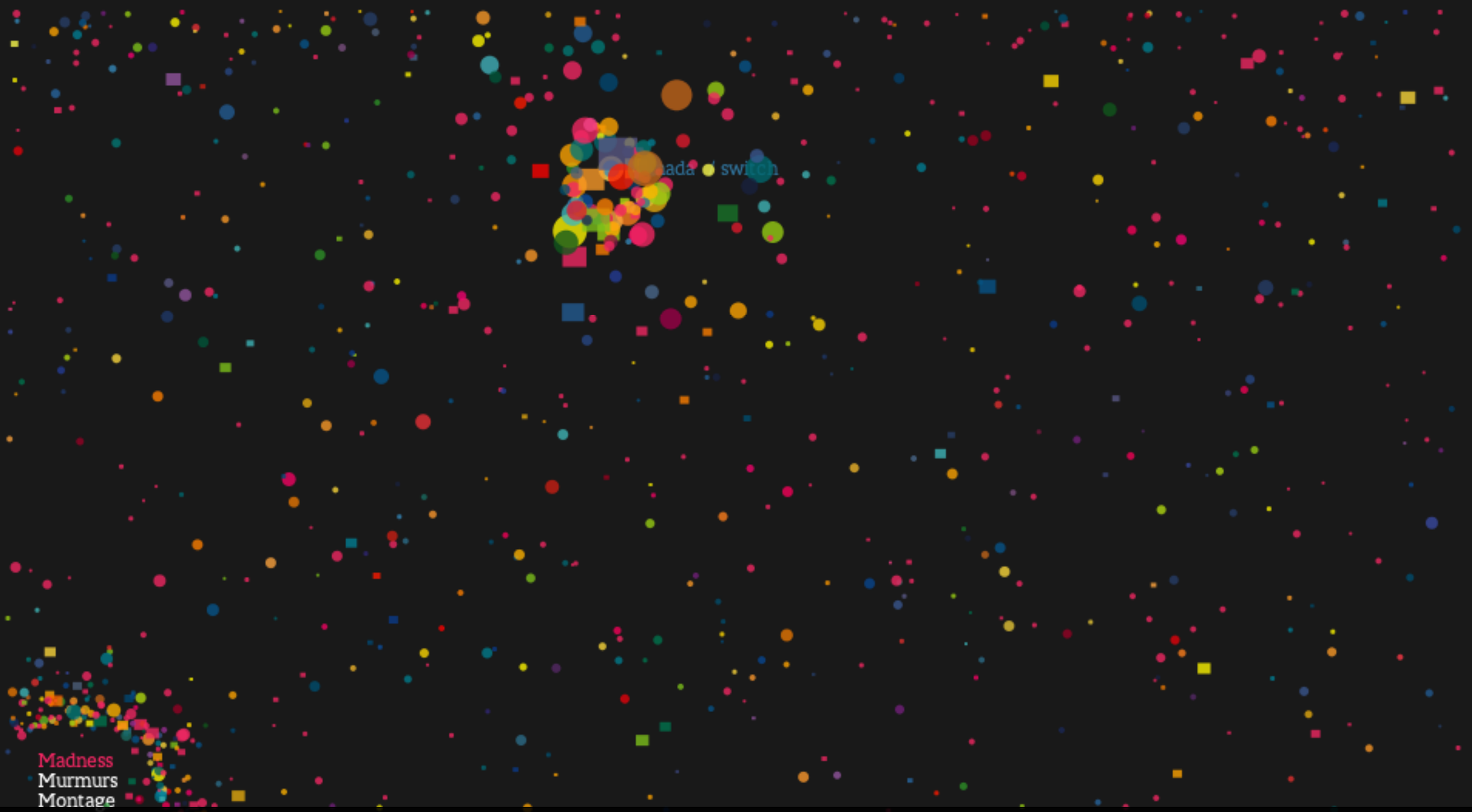
STATE OF THE WORLD

Nathan Yau | http://projects.flowingdata.com/state-of-the-world/

Feeling All Gender Both Age All Weather All Location All Date All

id love to hear your thoughts please feel free to share them with me

2 hours ago / from someone



We feel fine

Jonathan Harris and Sep Kamvar | http://wefeelfine.org/

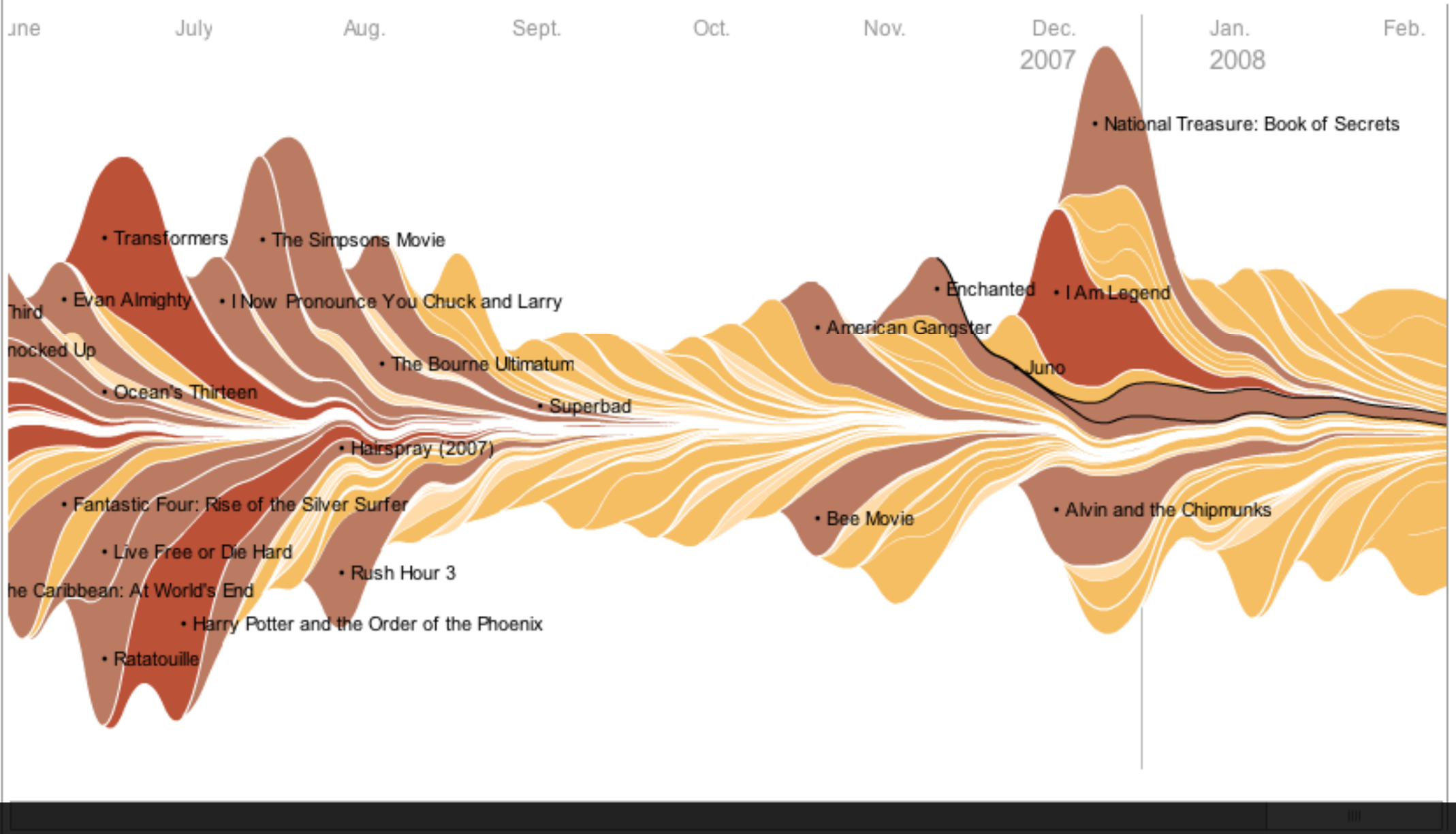
February 23, 2008

SIGN IN TO E-MAIL OR SAVE THIS | FEEDBACK

The Ebb and Flow of Movies: Box Office Receipts 1986 — 2008

Summer blockbusters and holiday hits make up the bulk of box office revenue each year, while contenders for the Oscars tend to attract smaller audiences that build over time. Here's a look at how movies have fared at the box office, after adjusting for inflation.

Find Movie Go

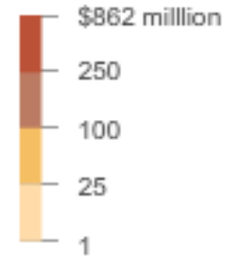


Each shape shows how one film did at the box office.

Height shows weekly box office revenue

Width shows longevity

The **area** of the shape (and its **color**) corresponds to the film's total domestic gross, through Feb. 21



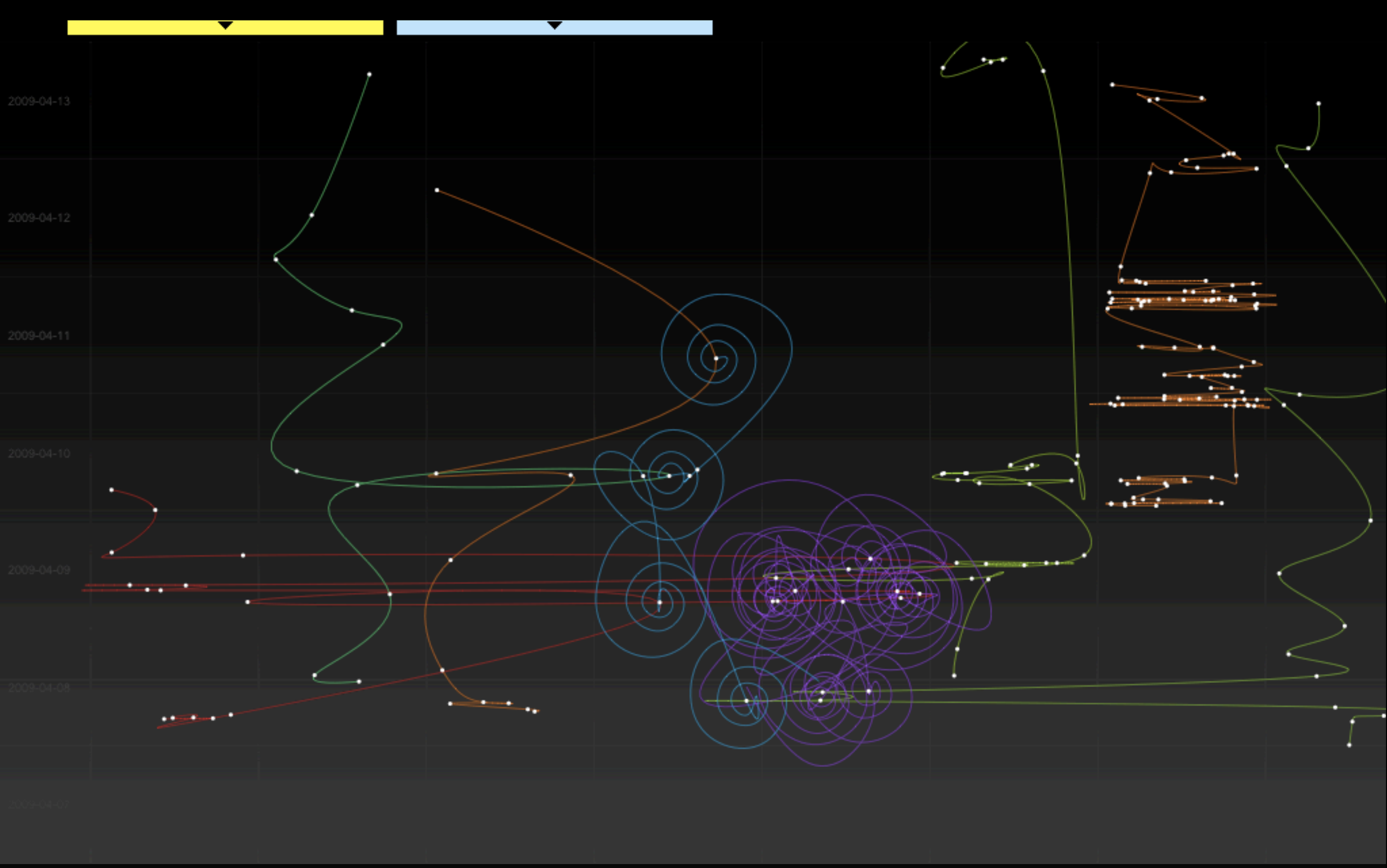
Sources: Baseline StudioSystems; Box Office Mojo

Mathew Bloch, Lee Byron, Shan Carter and Amanda Cox

THE EBB AND FLOW OF MOVIES

Mathew Bloch, Lee Byron, Shan Carter and Amanda Cox

http://www.nytimes.com/interactive/2008/02/23/movies/20080223_REVENUE_GRAPHIC.html



SOCIALCOLLIDER.NET

Sascha Pohflepp & Toxi | http://socialcollider.net/

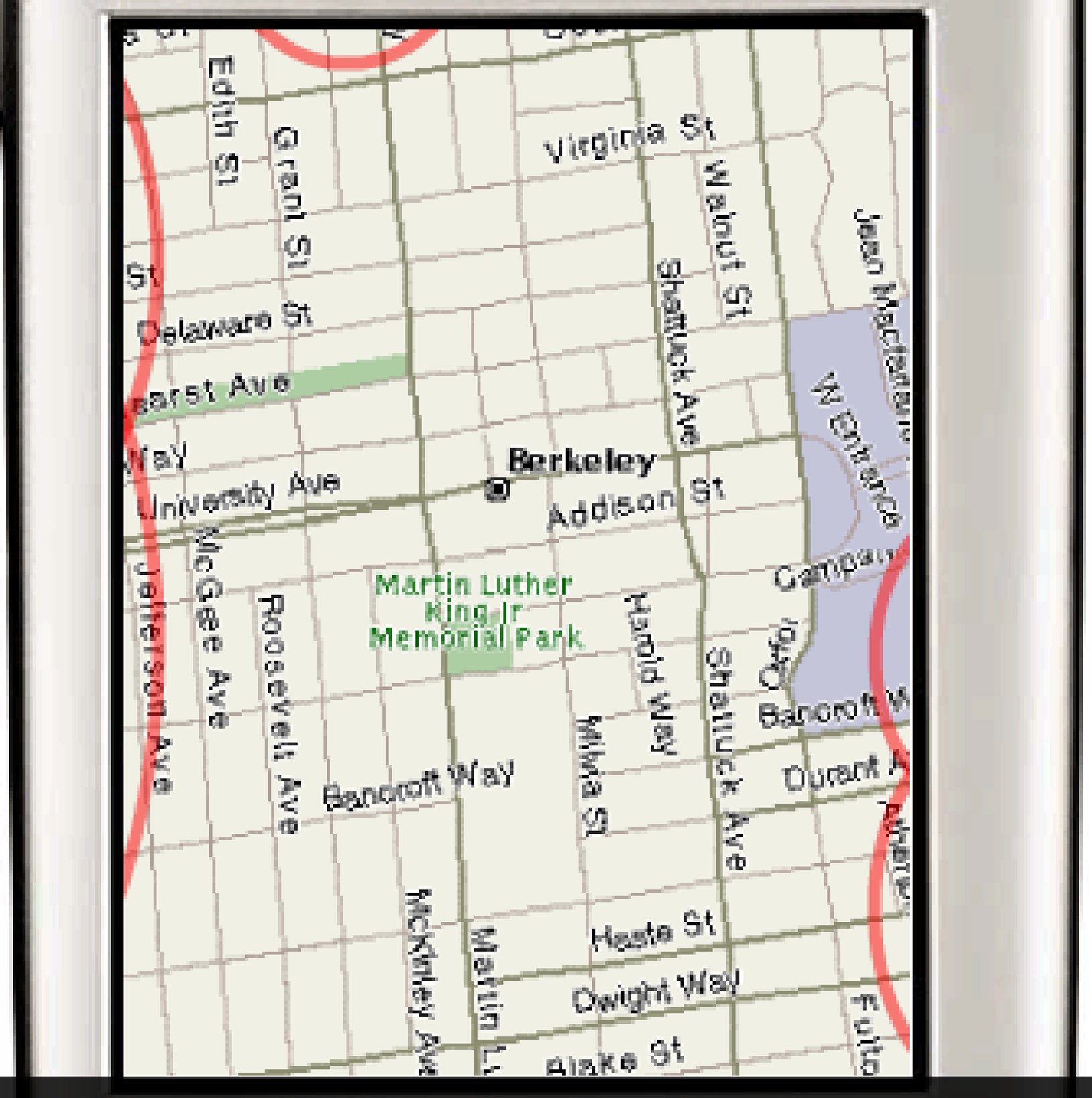
FELTRON ANNUAL REPORT

NICHOLAS FELTON

http://feltron.com/index.php?/content/2008_annual_report/

KNIGHT CAPITAL GROUP VISUALIZATIONS

Marius Watz
http://www.flickr.com/photos/watz/sets/72157608197253021/



HALO

Patrick Baudisch
http://www.patrickbaudisch.com/projects/halo/demo/halo.html

MAEVE

Interface Design Team FH Potsdam

mæve

MACE | EVERYVILLE
interactive installation at the Venice Biennale '08

trulia Hindsight

Los Angeles

SEARCH

Showing a few of the properties.

?

Share

TRULIA HINDSIGHT

1954

Darken Brightness Lighten

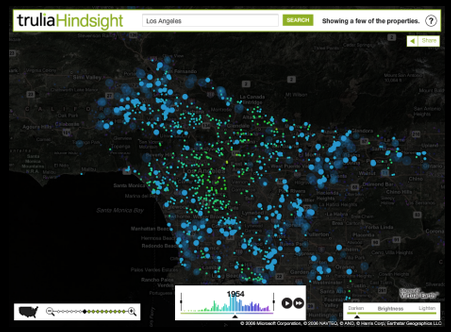
stamen design | http://hindsight.trulia.com/

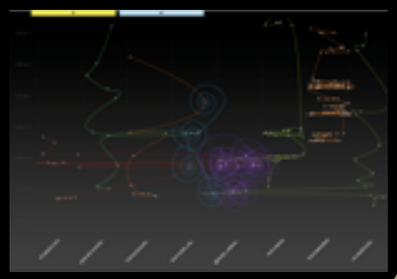
© 2006 Microsoft Corporation, © 2006 NAVTEQ, © AND, © Harris Corp, Earthstar Geographics LLC

AESTHETICS

DATA

INTERACTION

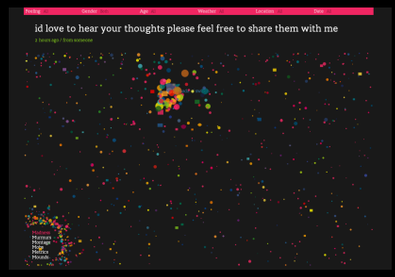




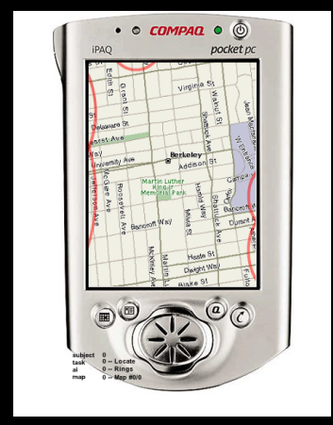




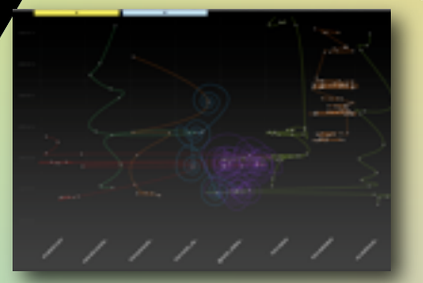




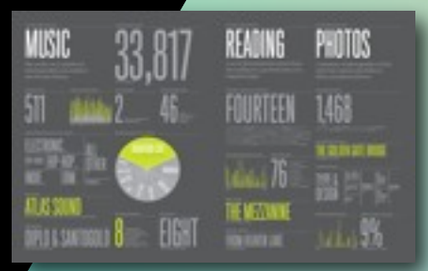


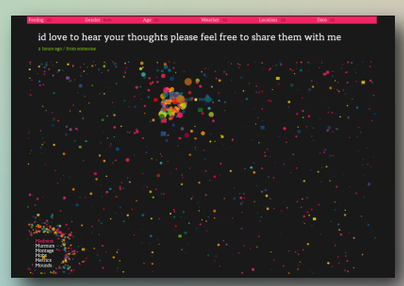


AESTHE



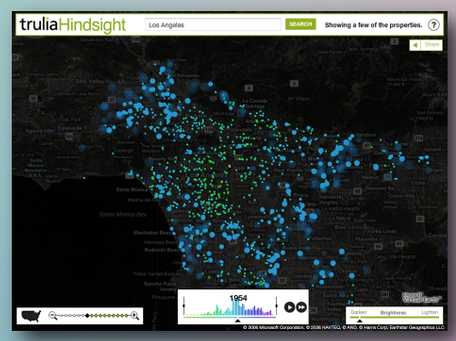




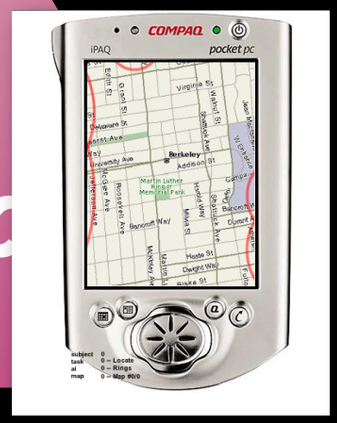


DATA



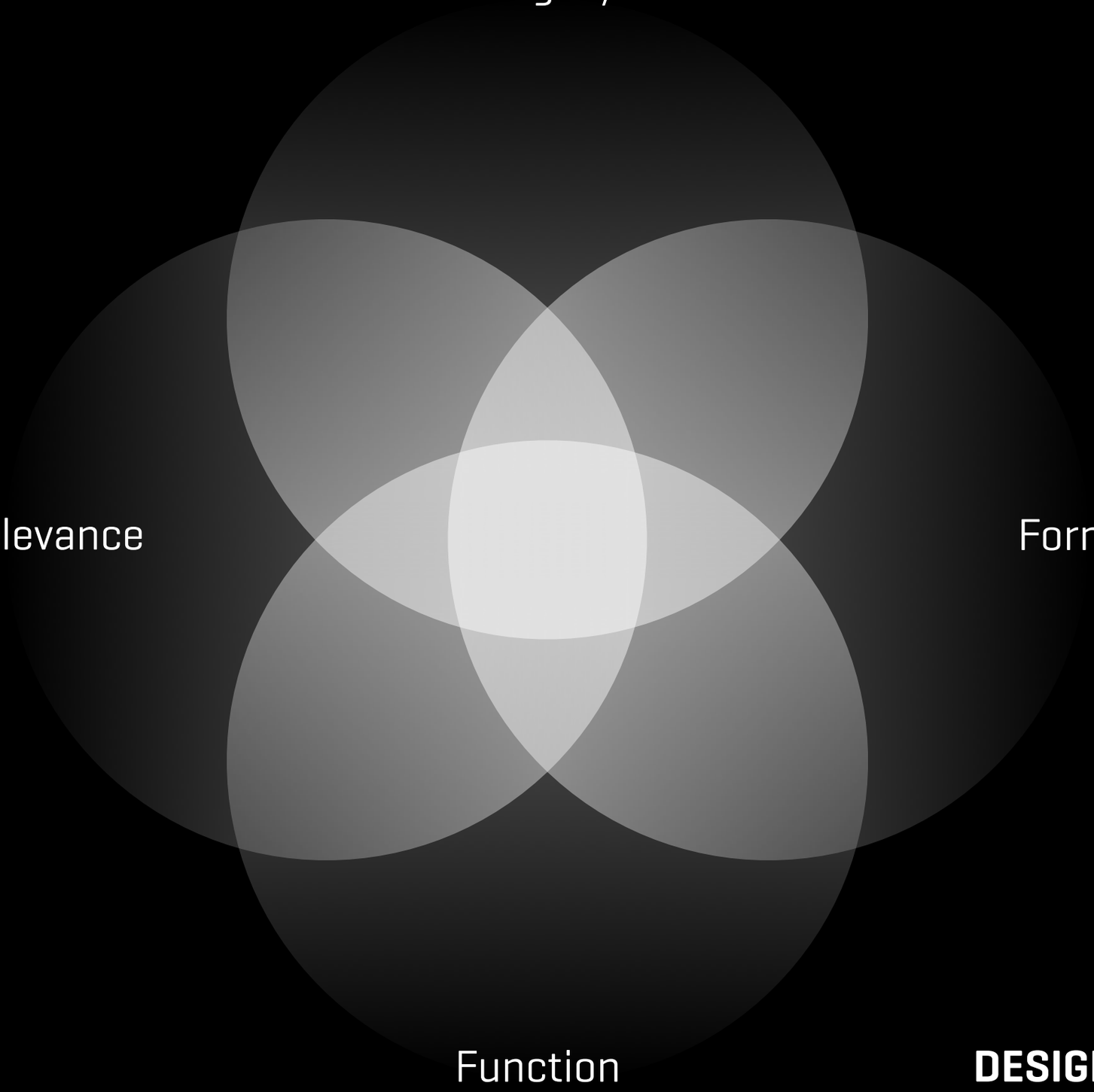


INTERAC



INFORMATION

Integrity



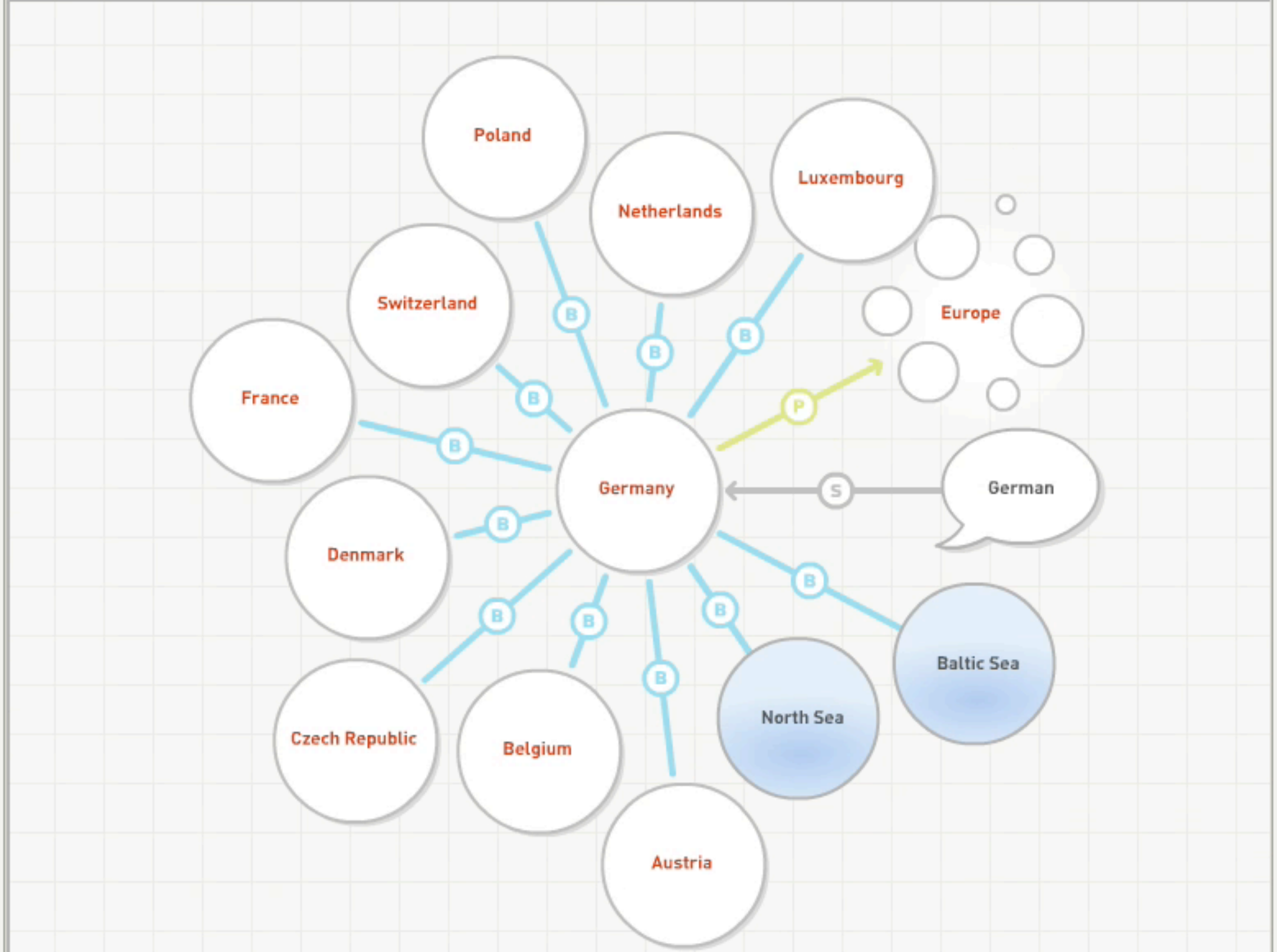
Relevance

Form

Function

DESIGN

Based on a draft by David McCandless



Relation browser

http://moritz.stefaner.eu/projects/relation-browser/

AdTegrity Network



Networks

- CPX
- Yahoo
- AdTegrity
- BannerConnect
- Oridian
- Directa
- eXtend

Advertisers

- NetBlue
- Netflix
- Coupons.com

Publishers

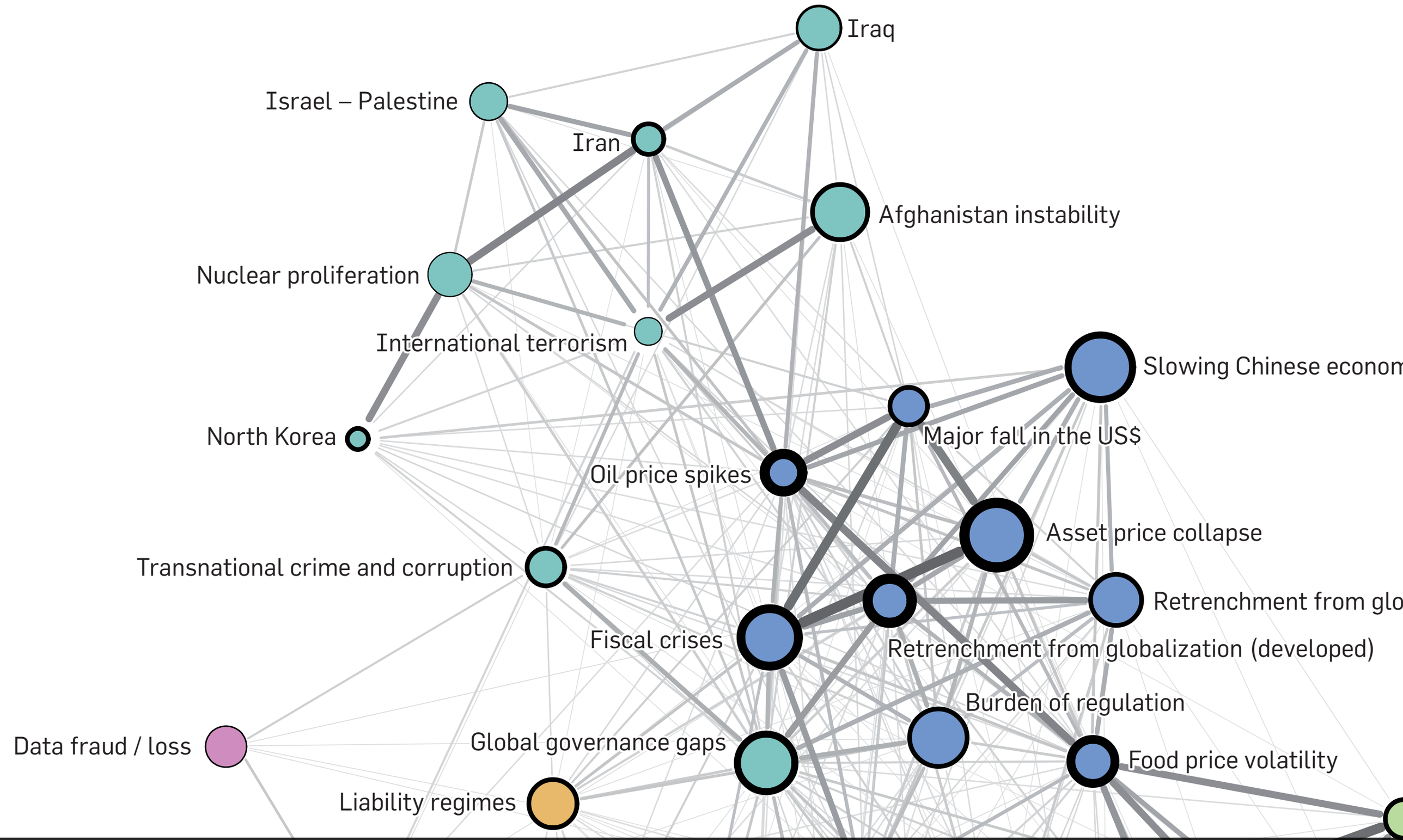
- FoxInteractive
- United Online
- Weatherbug
- Belo

Marketplace Innovators

- Adobe
- Salesforce.com
- Peer39
- Akamai

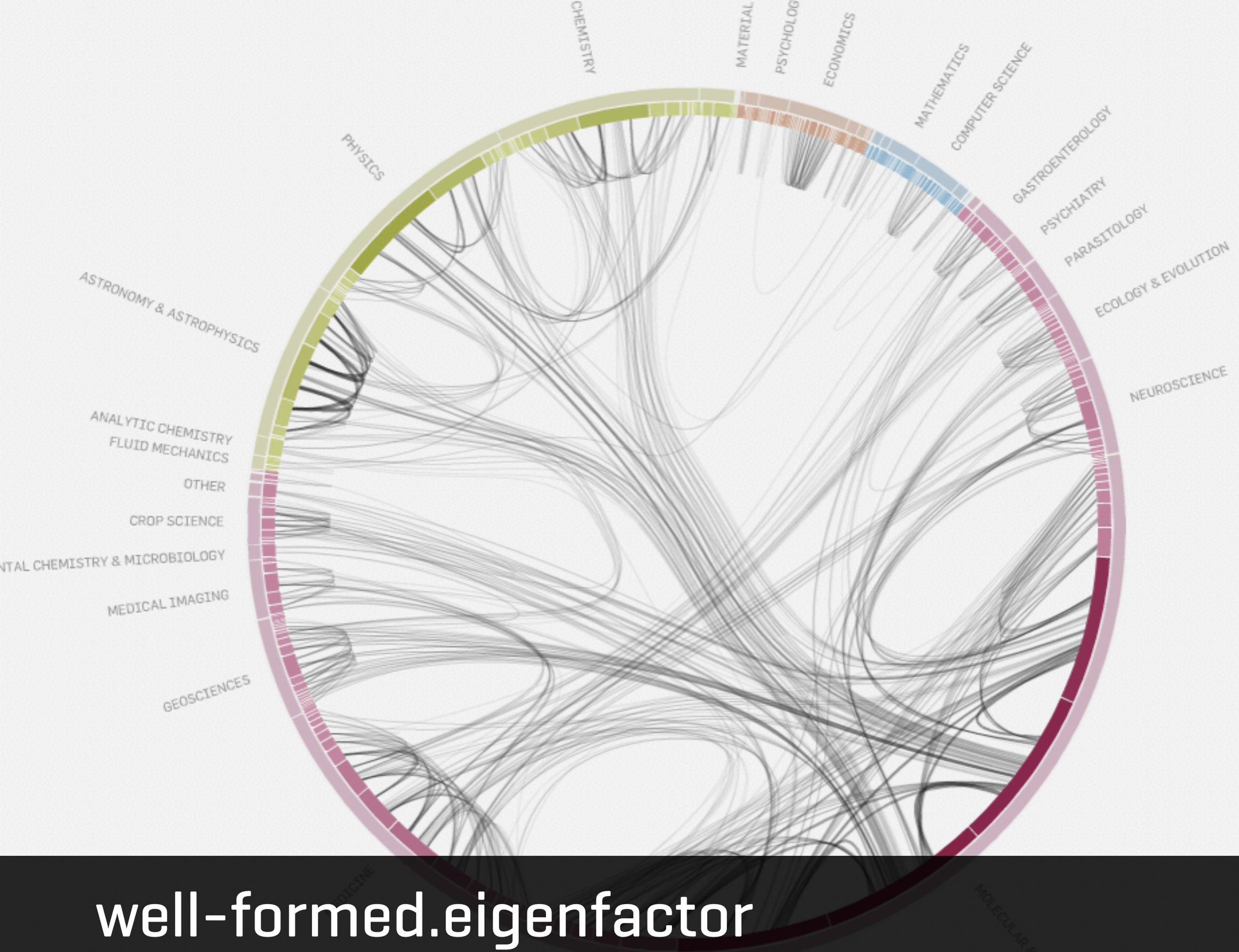
Agencies

- Havas
- WPP



World Economic Forum: Risk Interconnection Map 2010

http://www.weforum.org/documents/riskbrowser2010/risks/

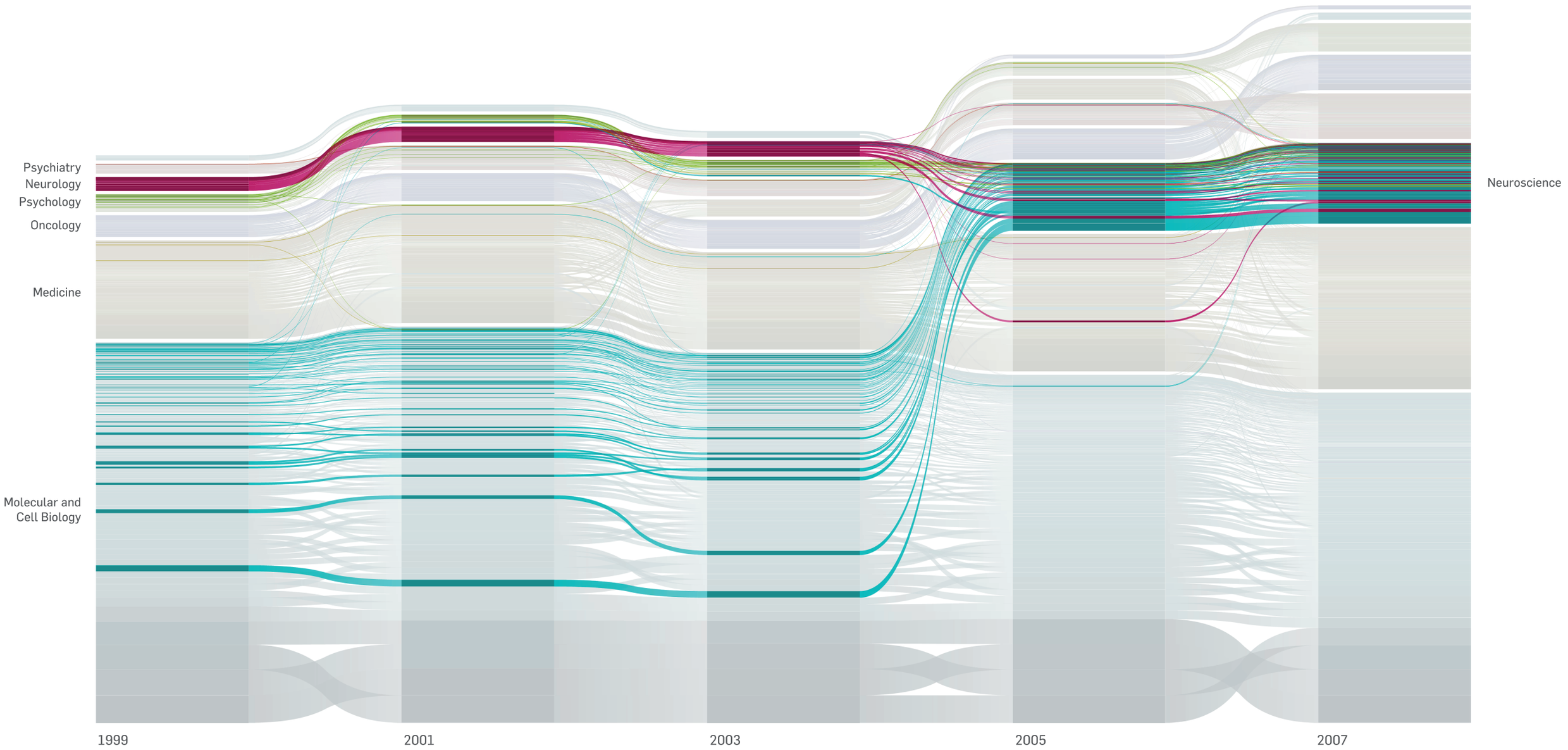


well-formed.eigenfactor

Moritz Stefaner & Eigenfactor Team, 2009 | http://well-formed.eigenfactor.org

well-formed.eigenfactor: Neuroscience Story

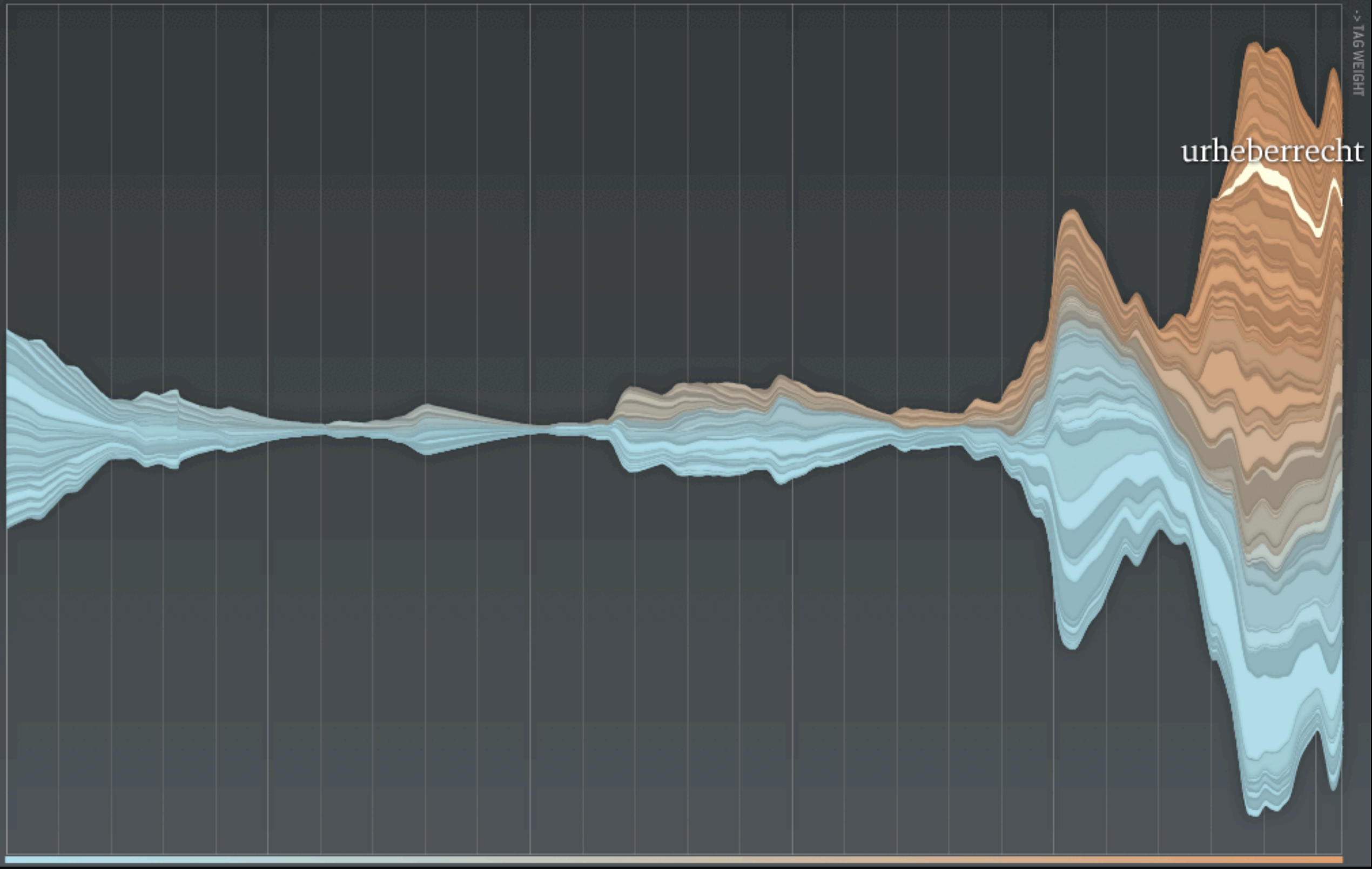
http://well-formed.eigenfactor.org





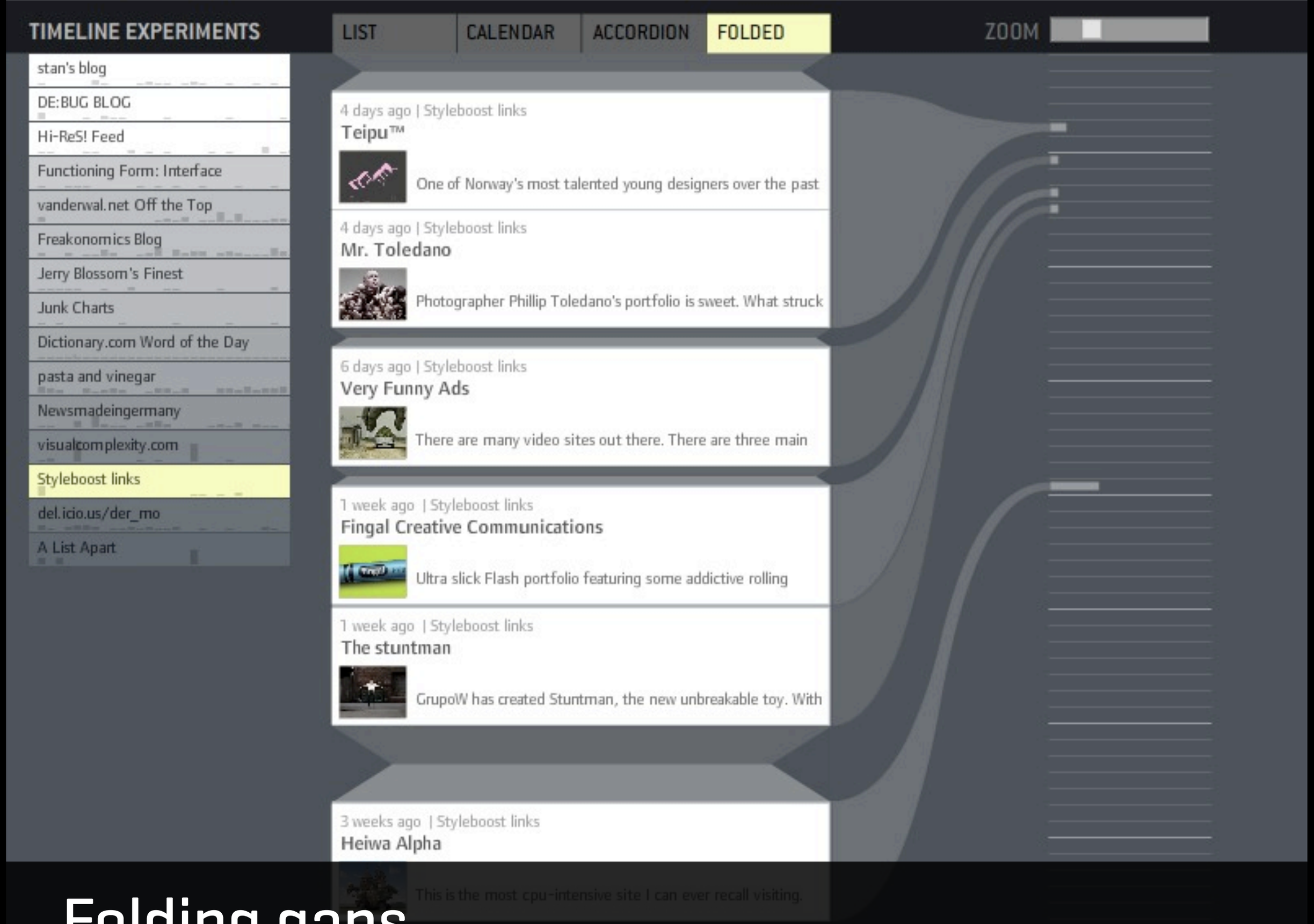
Elastic tag maps

http://moritz.stefaner.eu/write-talk/ma-thesis-visual-tools/



Emerging topics

http://moritz.stefaner.eu/write-talk/ma-thesis-visual-tools/



Folding gaps

http://moritz.stefaner.eu/write-talk/ma-thesis-visual-tools/

MACE
Metadata for Architectural Contents in Europe

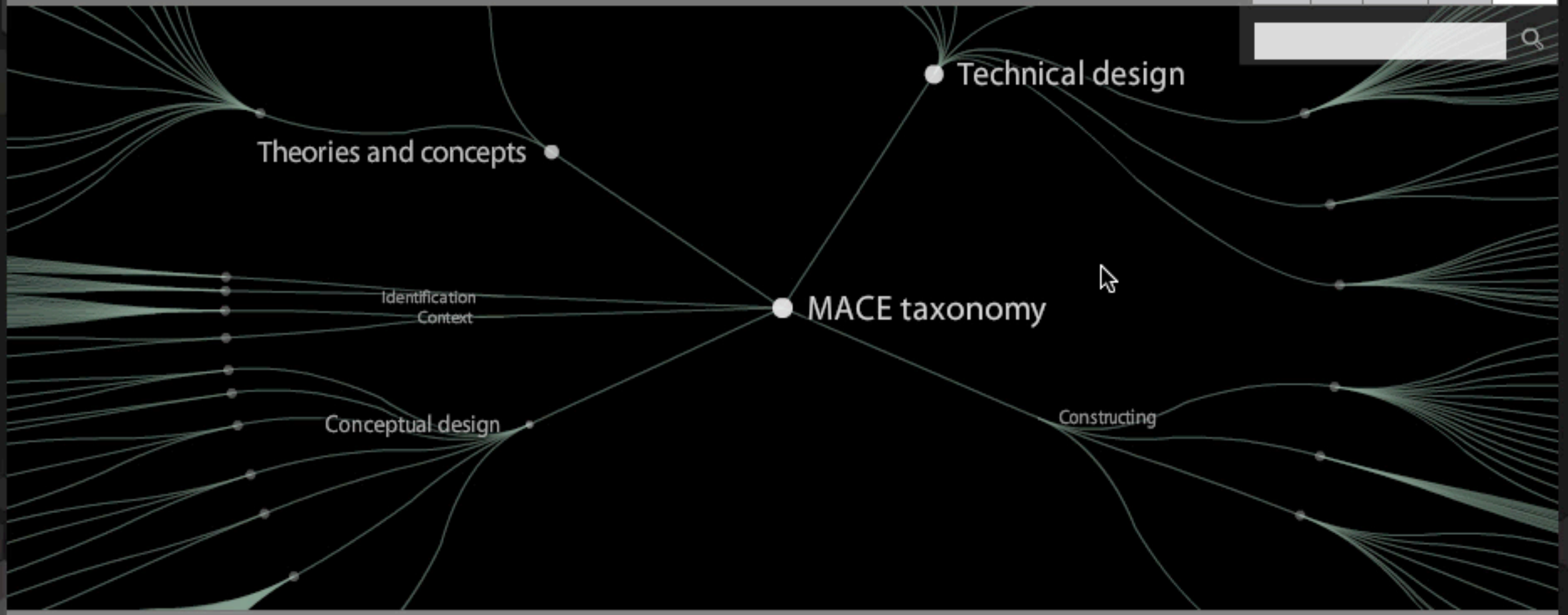
le mo
LOGOUT

Home | Search & Browse | Community | Feedback & Help | Extras

Filtered Search | Browse by Classification | Browse by Competence | Browse by Location | Social Search

Classification Terms

nl | it | de | es | en



Results

59707 results for: MACE taxonomy

1 | 2 | 3 | ... | 4974 | 4975 | 4976

Long road to Treasure Island. ... ICONDA



BOVEDILLAS DE HORMIGON WEB



Explanation of Bilbao - "safe ... ICONDA



Home
Search
Text based search
Browse
Tag based search
Semantic search
Search for Educational Scenarios
Institutional collections
User Communities
Educational Scenarios
Quality Assurance
Repository Tool
About

LOGIN

Username

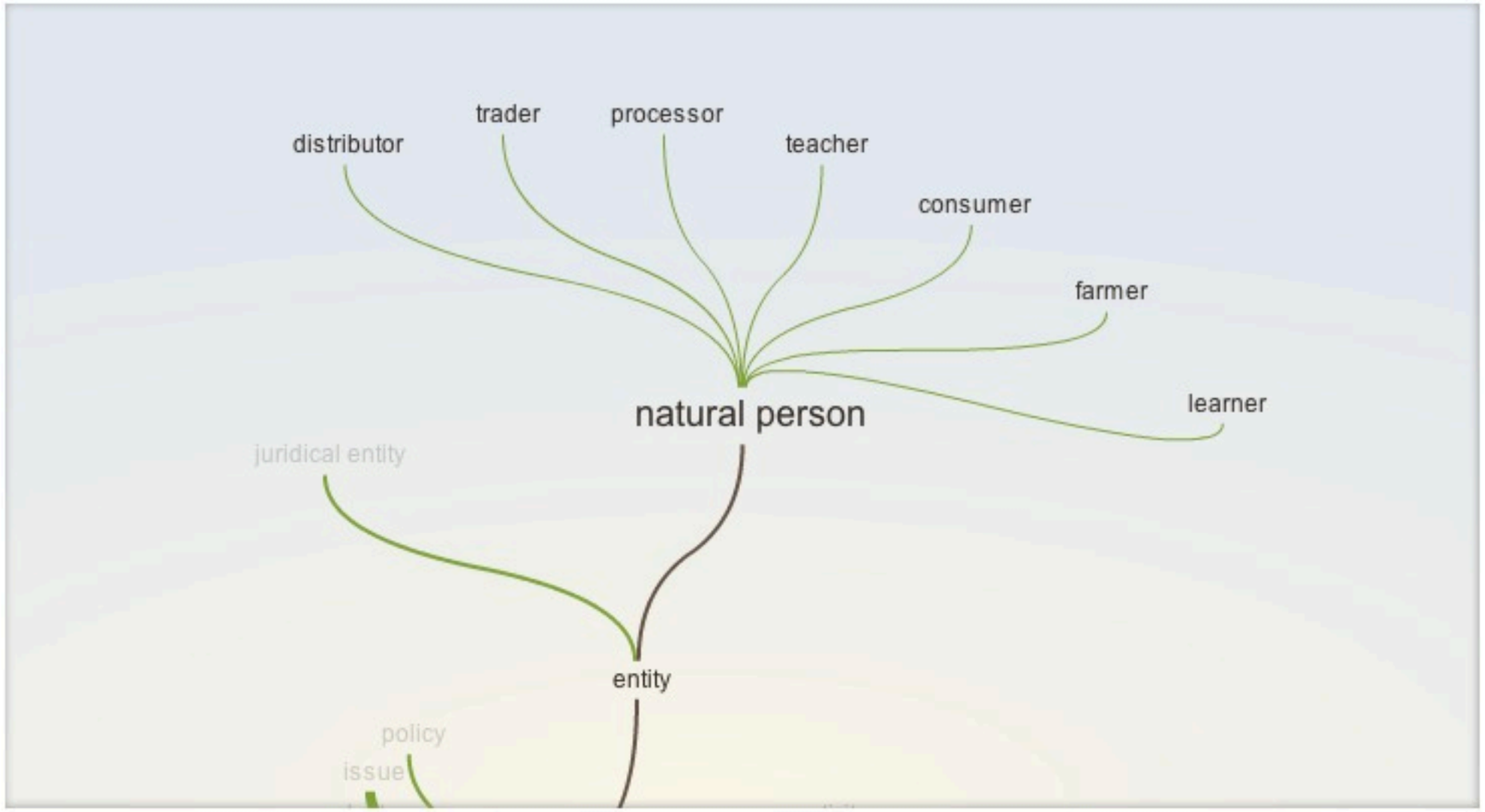
Password

Remember Me

Log in

- Forgot your password?
- Forgot your username?
- Create an account

Semantic Search



Search interest terms in the ontology

add →

List every resource which...

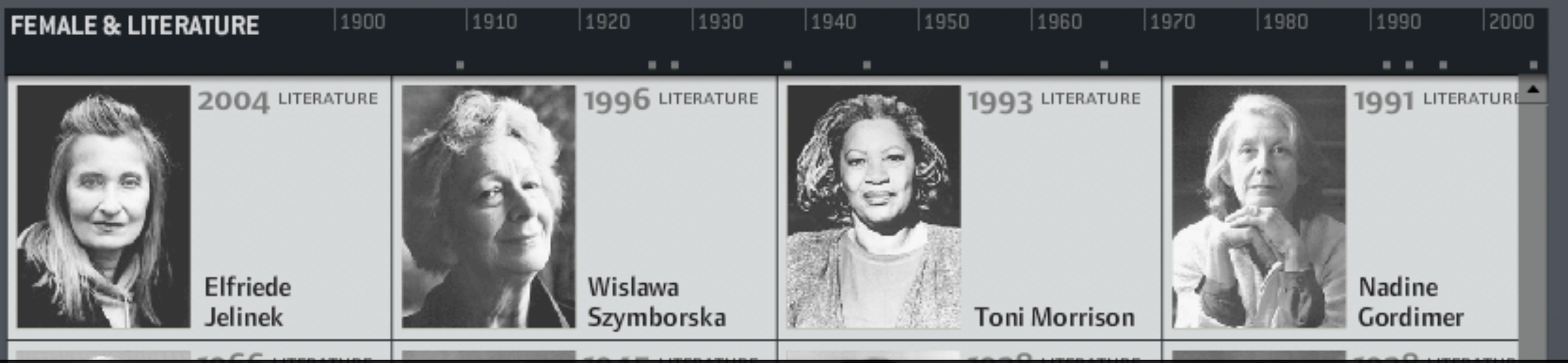
is related to

...the selected terms

There are no results

0 total results for: *natural person*





Elastic Lists

http://moritz.stefaner.eu/projects/elastic-lists/

Prix Ars Electronica › Interactive Art › Winners 1990-2009

FORM/RANGE OF WORK

stand-alone	217
installation	203
networked	101
software application	49
public space	46
performance	40
sculpture	37
project	37
separate sites	36
object/device	28
mobile	18
experiment	8

INTERACTION PARTNERS

human><computer	246
human><human	53
comp.><analogue devices	22
computer><computer	20
comp.><external data	18
comp.><environment	17
computer><animal	3

THE VISITOR DOES

activate	132
explore	66
select	60
control	59
observe	54
participate	47
navigate	34
leave traces	28
create	19
co-author	19
exchange data	18
collaborate	10

THE WORK DOES

mediate	105
visualize	86
serve as instrument/tool	61
sonificate	54
transform	52
tell, narrate	51
process	44
enable communication	41
offer a game	32
document	30

MEDIA

computer graphics/anim.	128
electronic sound	125
projection	121
monitor/display	120
speakers	104
video	98
sensors	80
video camera	57

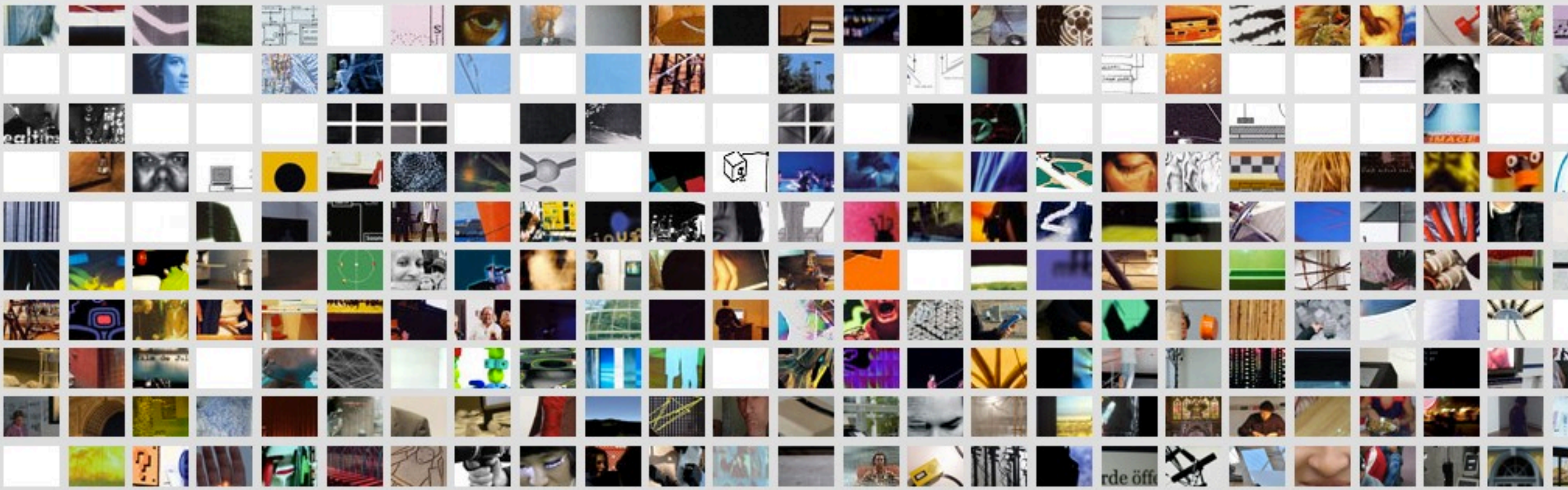
CATCHWORD

virtual reality	37
embodiment	32
augmented reality	30
ubiqu./pervasive comp.	30
robotics	25
kinetics	24
Hypertext /-media	21
telepresence	20

TOPIC

media [=self-reflex
perception
social relations /is
no topic [abstract]
data processing
everyday issues
urbanism
artificial life
artistic/creative ex
mass media
psychology

298 results



5 years of infosthetics



CATEGORY

aesthetic	1199
infographic	736
infovis	534
collection	367
art	280
physical	273
locative	260
ambient	163
architecture	147
interface	136
news	107
movie	100
social	93
clothing	76
collaborative	61
blog	59
multimodal	45
everyday	45
open data	34
sonification	16
guest blog	15
text	9
question	1

NUMBER OF COMMENTS

none	897
1-5	847
6-10	130
11-20	60
>20	15

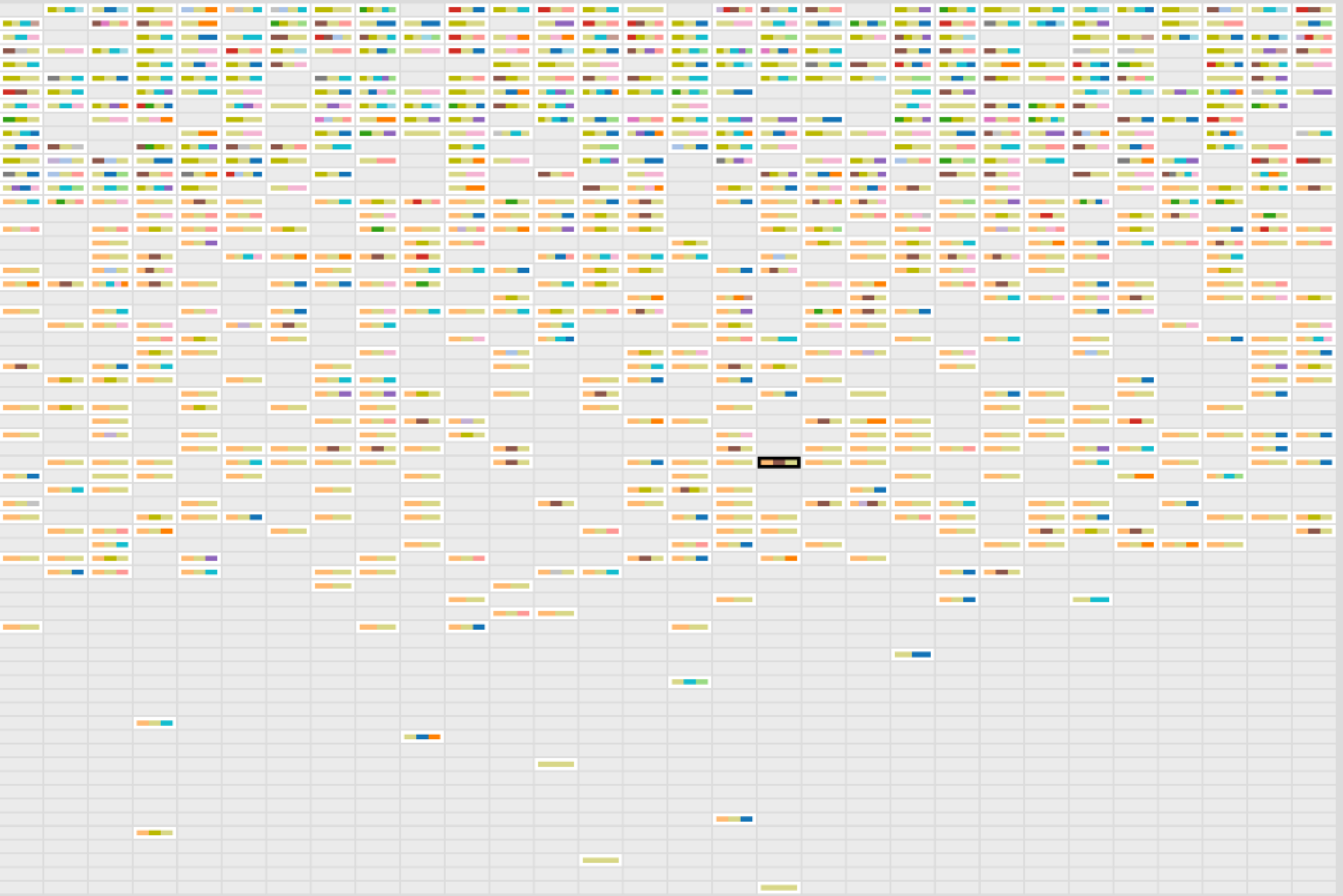
YEAR

2004	12
2005	483
2006	433
2007	375
2008	304
2009	342

AUTHOR

infosthetics	1883
fofoda	39
moritzstefaner	4
toarden	4
mahir	3
lsenberg	3
Martin	2
IDE	2
Larissa	2
santiago	1
junkcharts	1
komi	1
biofusion	1
Jose	1
bewitched	1
Remy	1

5 years of infosthetics



CATEGORY

infographic	736
aesthetic	417
collection	166
infovis	125
locative	111
art	97
movie	88
physical	78
interface	46
news	42
social	31
architecture	27
collaborative	26
open data	21
everyday	16
blog	12
ambient	10
guest blog	9
clothing	5
text	5
multimodal	3
sonification	1
question	1

NUMB

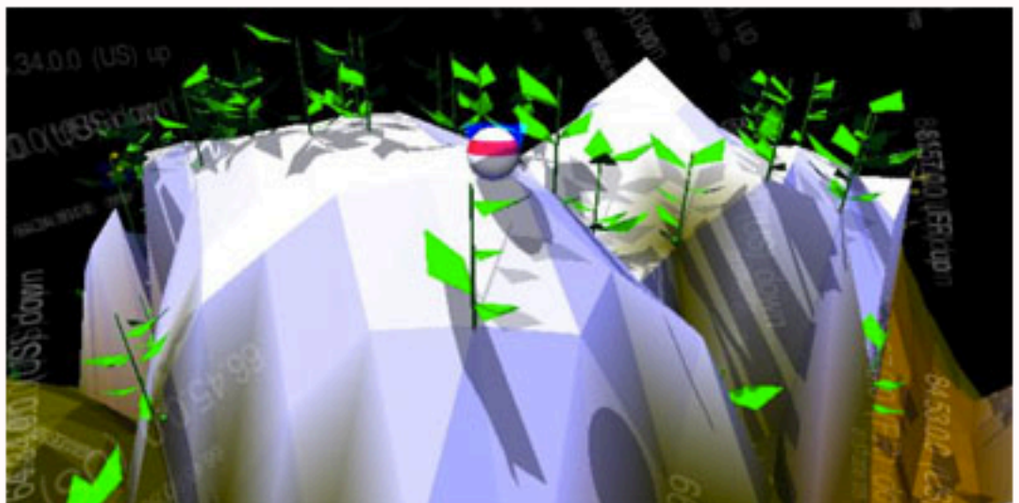
none
1-5
6-10
11-20
>20

YEAR

2004
2005
2006
2007
2008
2009

AUTH

infosth
fofoda
mahir
lsenbe
moritz
tcarde
Lariss
IDE
MartIn
kcmi
junkch
Jose
biofusi
Remy



packet garden network traffic

aesthetic, art, infographic

infosthetics

Mon Jan 15 2007

1 comment

»

No grouping | Team | Outcome | Event | Player | Period

50442 | NULL | 8516 | 7328 | 18381

52153 | 38867 | 18229 | 21129 | 18398

13573 | 18228 | 10185 | 8859 | 17746

33036 | 7309 | 8537 | 7194 | 745

15930 | 37979 | 8704 | 4193 | 7237

3995 | 18418 | 18237 | 39464

TEAMID

125	793
123	644

OUTCOME

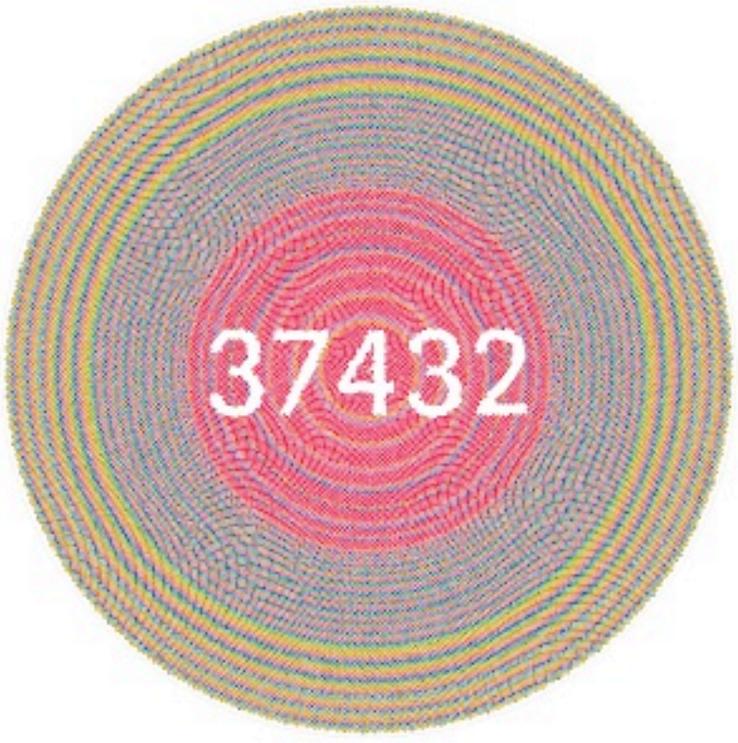
1	1040
0	397

EVENTID

pass	860
dual	214
clearance	81
ballrecovery	70
turnover	39
interception	32
corner	26
52	22
goalkeeperclaim	17

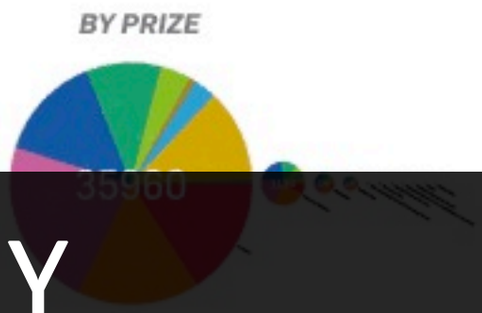
PLAYERID

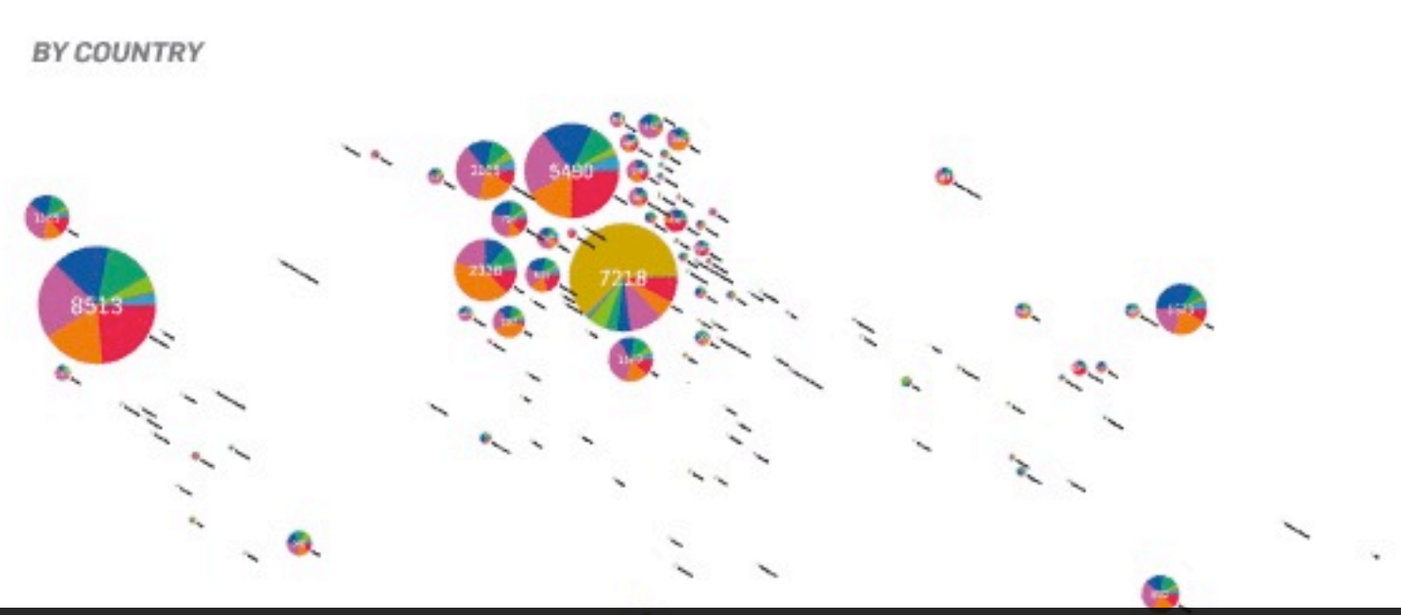
18229	102
7483	91
21129	84
8859	84
33036	73
17746	73
18381	71
7194	68
13573	65





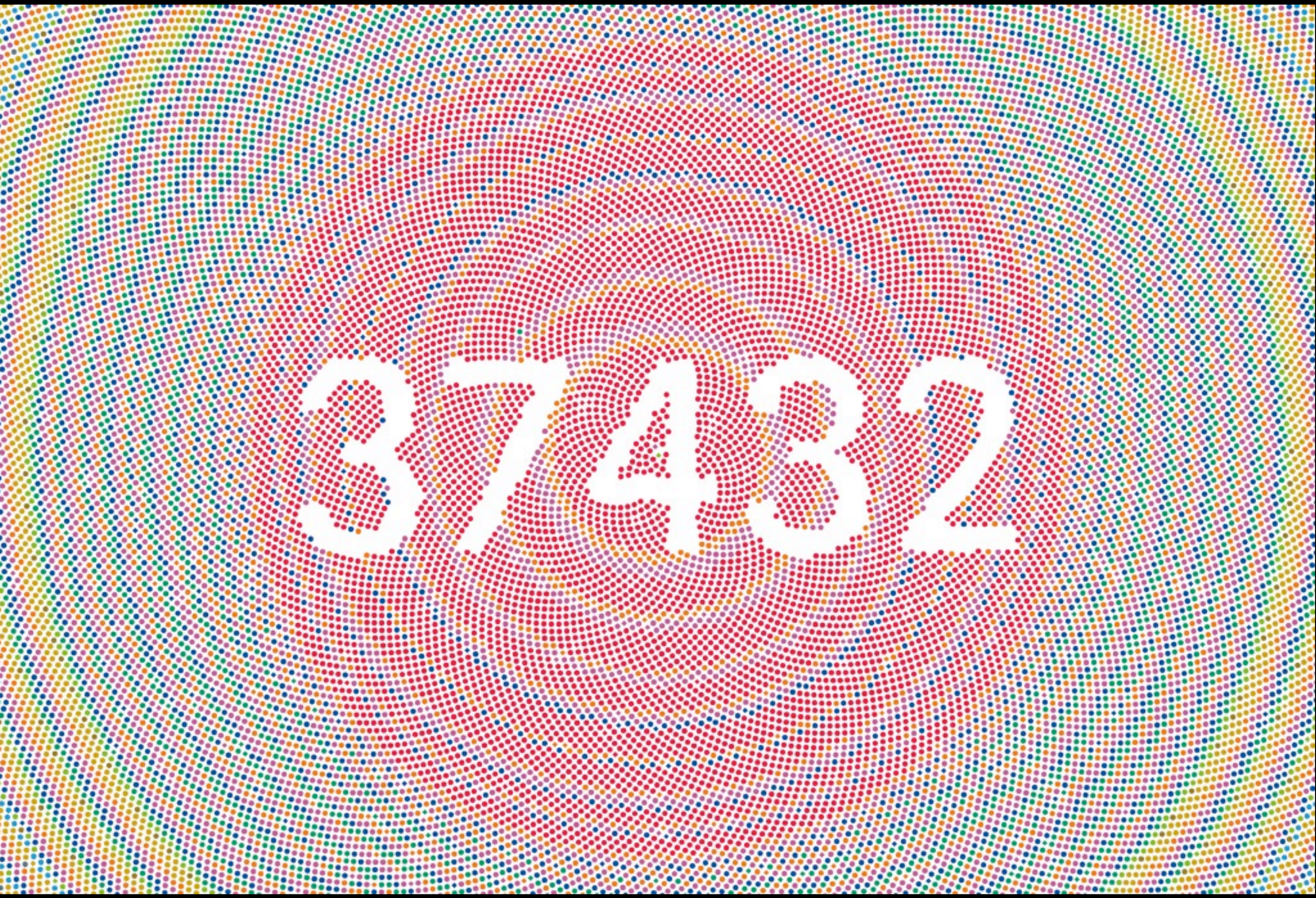






X by Y

http://moritz.stefaner.eu/projects/x-by-y/


STRIKE



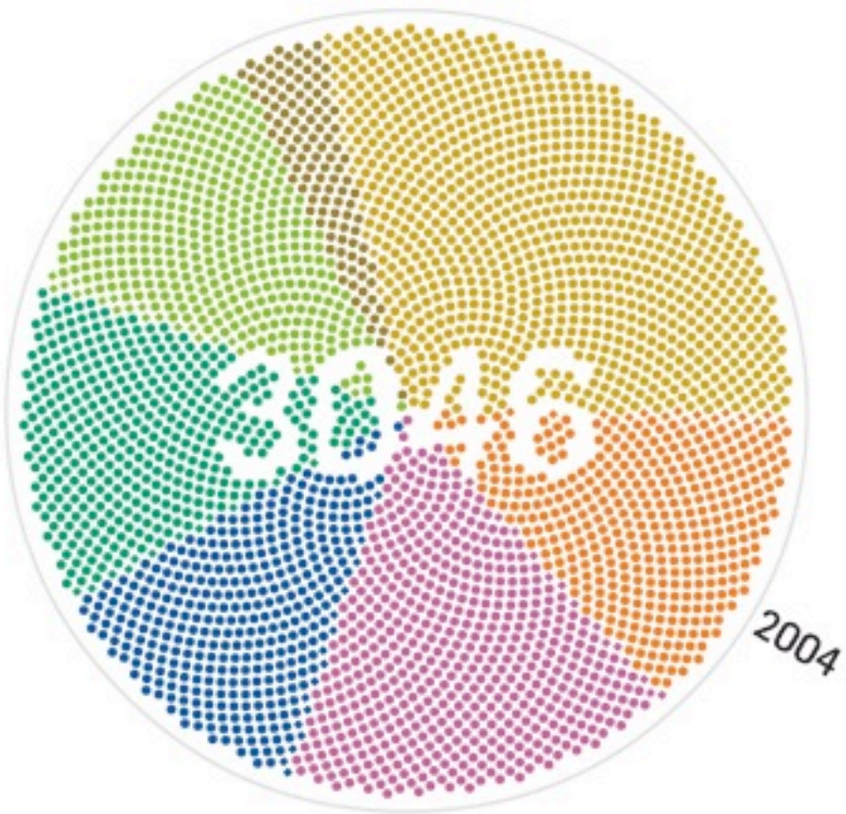
2001



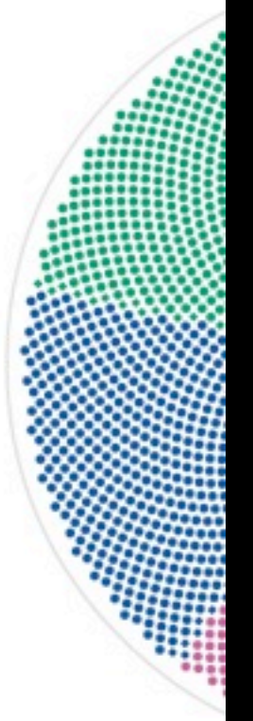
2002

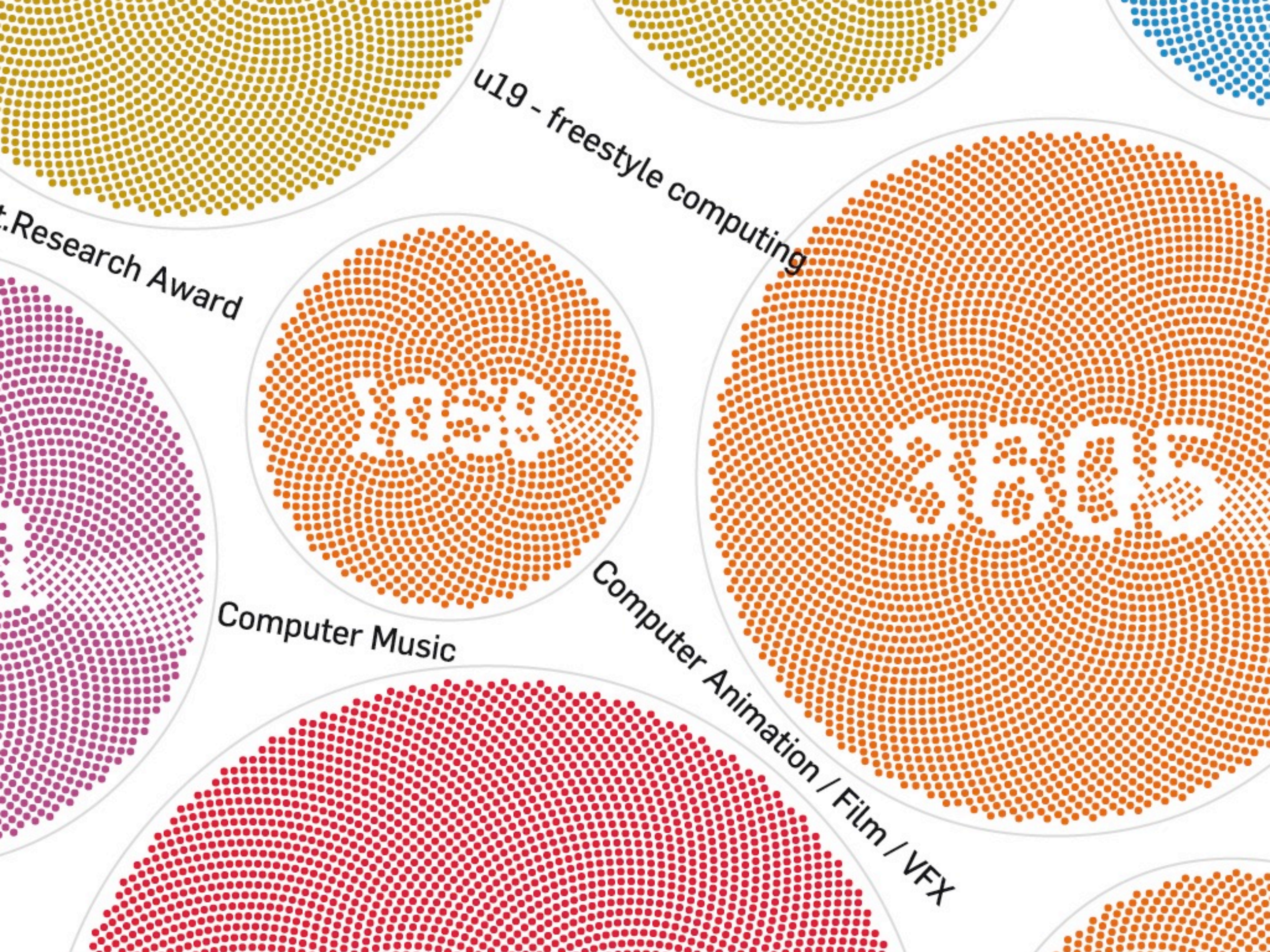


2003

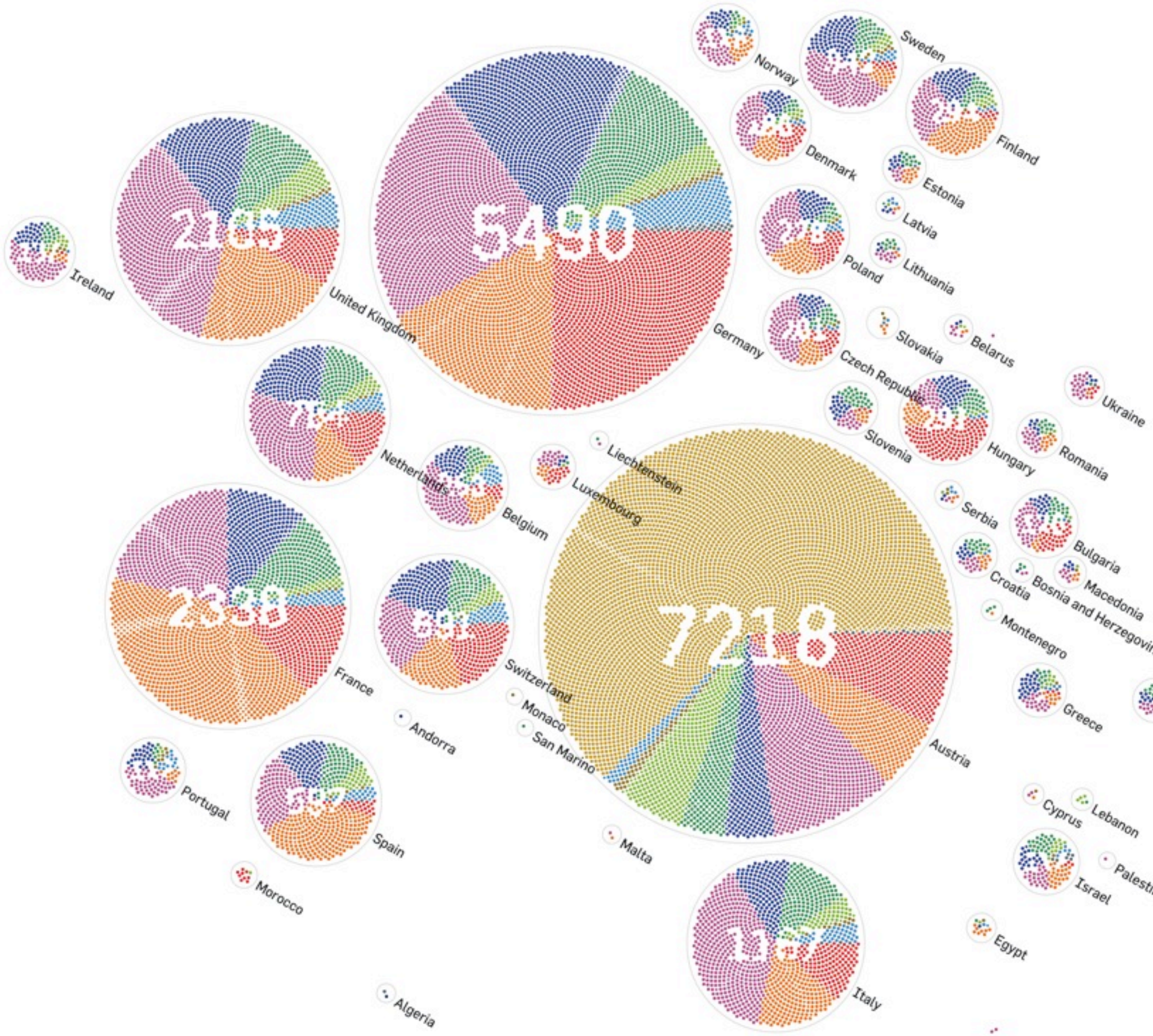


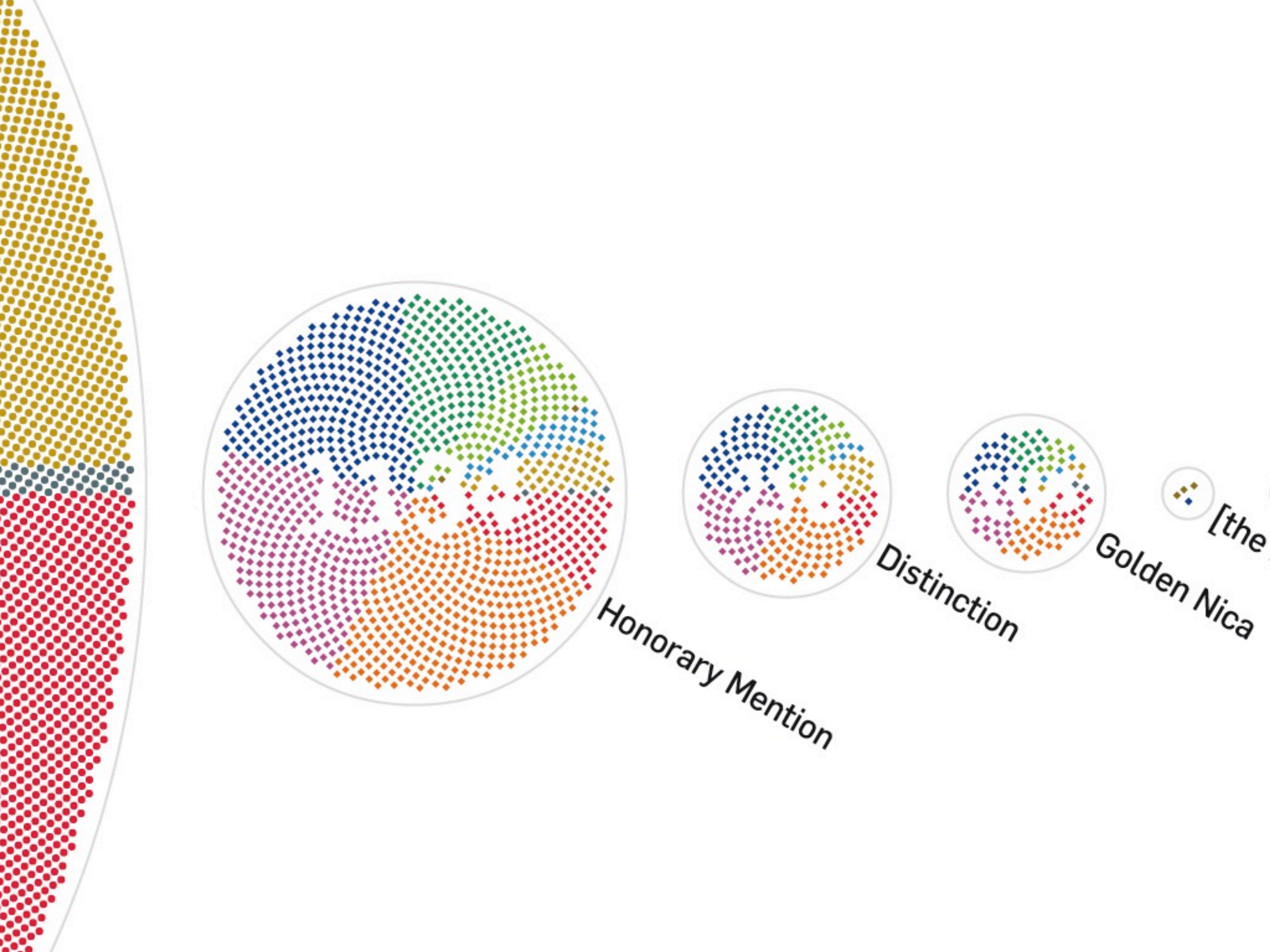
2004




u19 - freestyle computing
t.Research Award
Computer Music
Computer Animation / Film / VFX


1385
8513
2105
5490
7218
2338
1187
1571
892


Ireland
2183
United Kingdom
5490
Germany
Norway
Sweden
Finland
Denmark
Estonia
Latvia
Lithuania
2168
Poland
Slovakia
Belarus
Czech Republic
Ukraine
Slovenia
Hungary
Romania
Netherlands
Liechtenstein
Luxembourg
Belgium
7218
Austria
Serbia
Bulgaria
Croatia
Bosnia and Herzegovina
Macedonia
Montenegro
2353
France
Switzerland
Andorra
Monaco
San Marino
Greece
Turkey
Armenia
Azerbaijan
Portugal
Spain
Morocco
Malta
Cyprus
Lebanon
Israel
Palestinian Territory
Egypt
Bahrain
1172
Italy
Algeria


Honorary Mention
Distinction
Golden Nica
[the


MAPPING THE ARCHIVE: PRIX ARS ELECTRONICA
ARS ELECTRONICA
HUMAN NATURE
ARS ELECTRONICA 2009
Festival für Kunst, Technologie und Gesellschaft
Linz, Do 3. – Di 8. September
www.aec.at/humannature
The department of visualization* of the Ludwig Boltzmann Institute for Media.Art.Research with external contributions by Moritz Stefaner(DE) and Gerhard Dirmoser(AT).
*Dietmar Offenhuber(AT), Evelyn Münster(DE), Jaume Nualart(ES)
Mapping the Archive: Prix Ars Electronica


INTER-
ACTIVE


ANIMATION
2338
891
7218
592
U19

MATERIAL EXPLORATION

What's

available

significant

interesting

the scale

feasible

Where are the anchor points?

What does it afford?

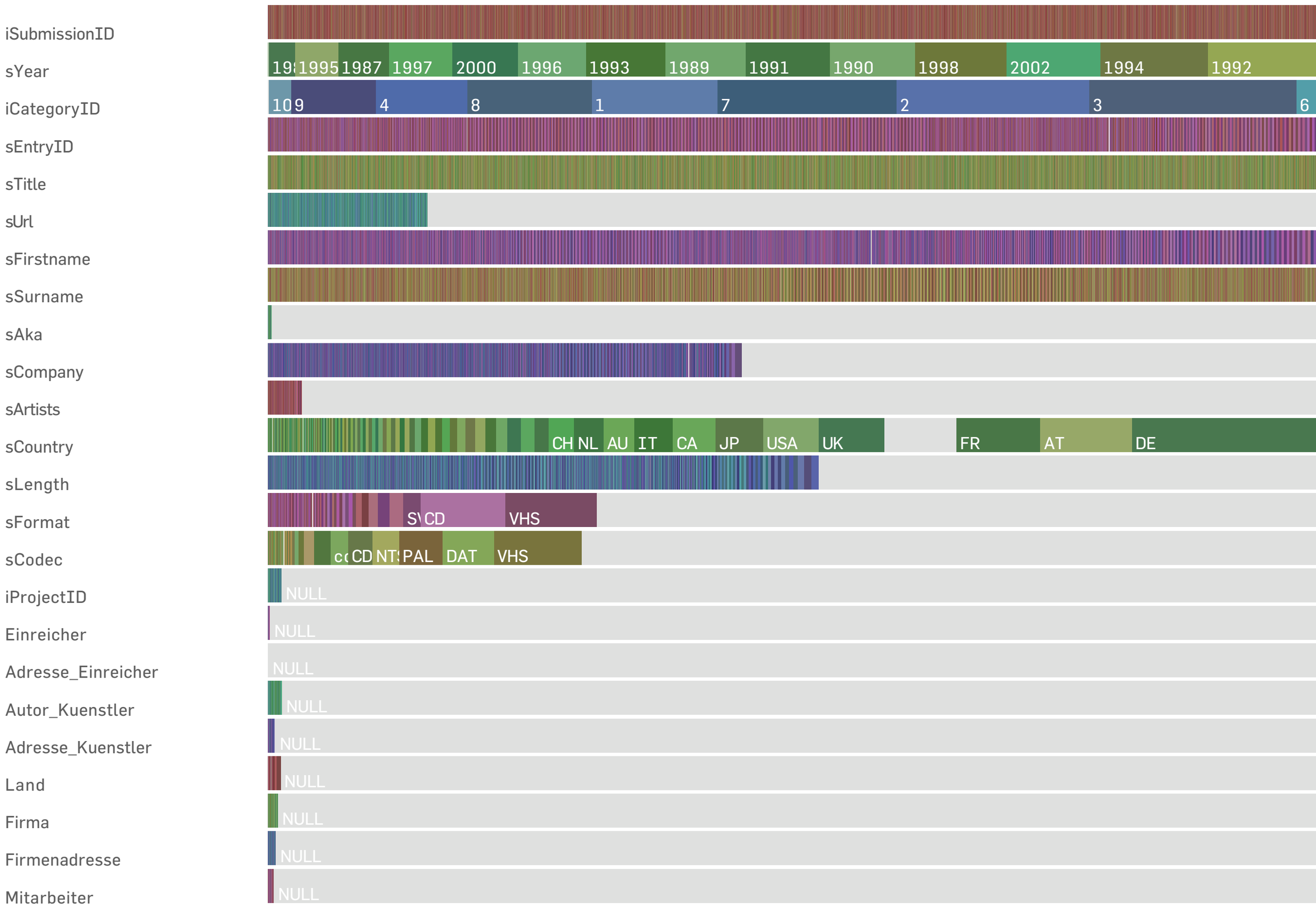
http://berglondon.com/blog/2009/10/23/toiling-in-the-data-mines-what-data-exploration-feels-like/

First guesses of what might be interesting

	Autor	Land	Jahr	Kategorie	Keywords	Winner?	Ein-reichung
Autor			x	**X**	x	x	
Land			x	x	x	**X**	
Jahr					x		x
Kategorie					**X**		**X**
Keywords						**X**	
Winner?							**X**
Ein-reichung							

What's in the databases

http://well-formed-data.net/archives/306/dbcounter-quick-visual-database-stats

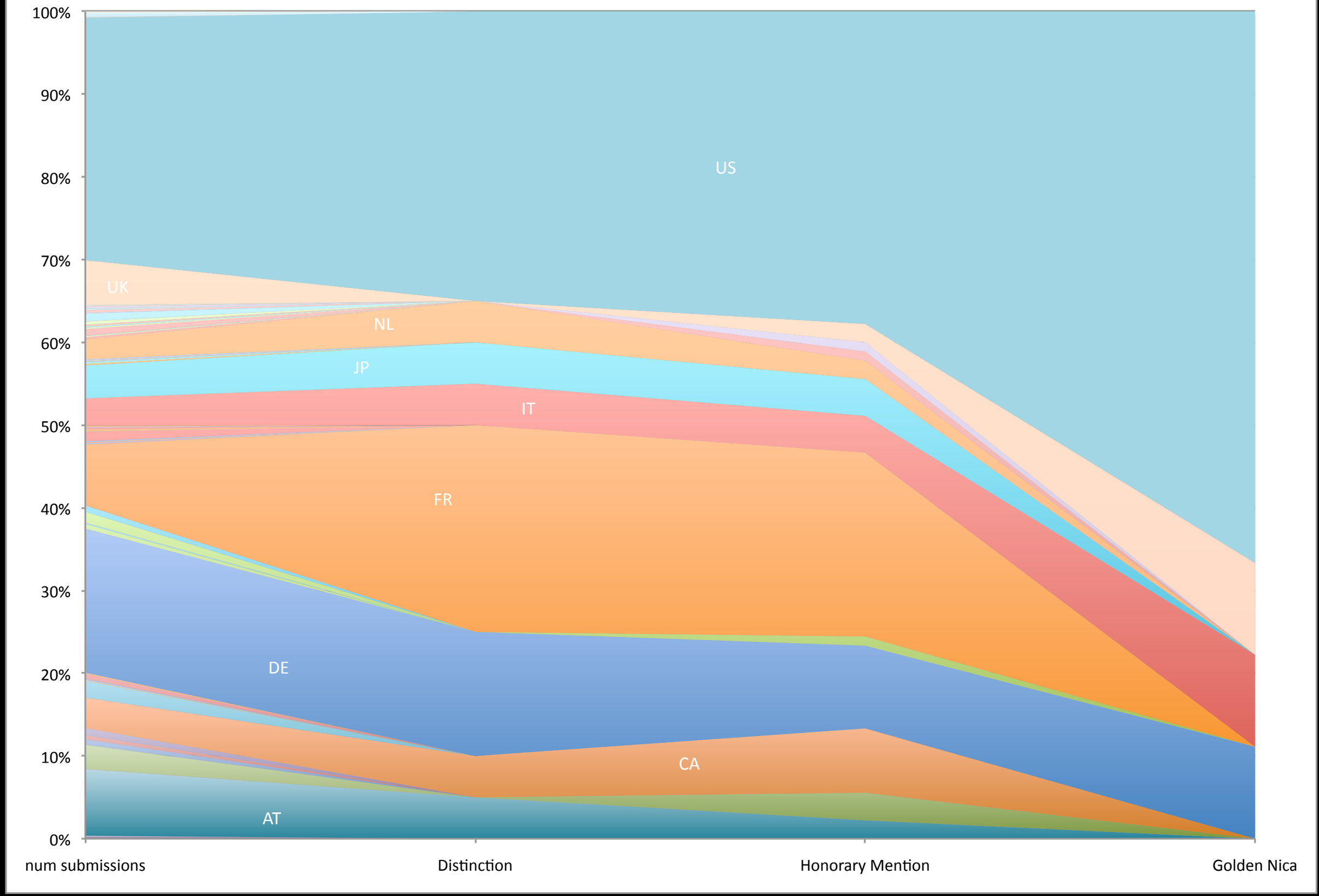


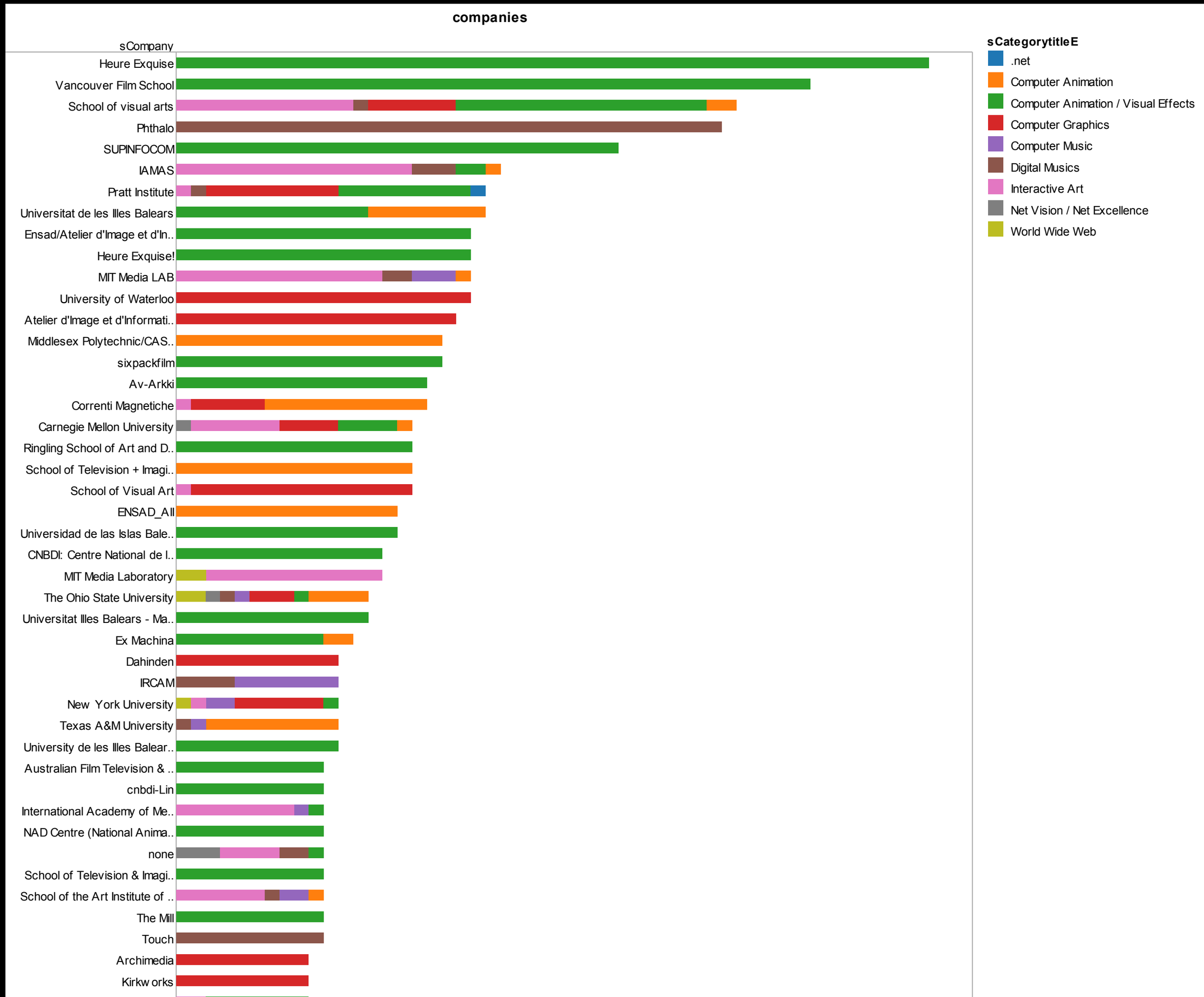
Sheet 7

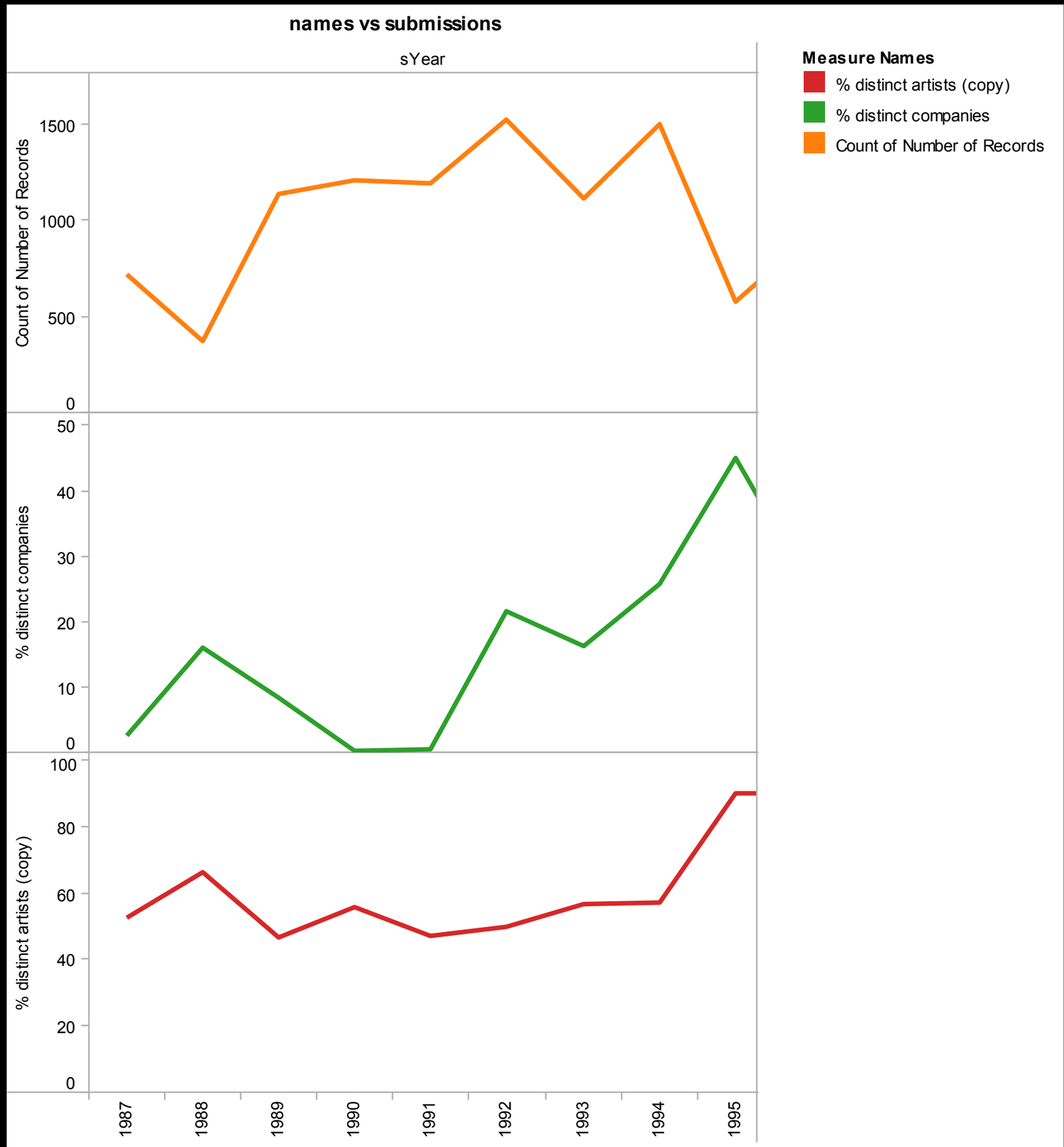
country (group) / prixcategory_en

sYear	.net	[the next idea]	Computer Animation	Computer Animation / Visual E..	Computer Graphics	Computer Music	cybergeneration - u19 frees..	Digital Communities	Digital Musics	Hybrid Art	Interactive Art	Media.Art. Research Award
						Null, -, NULL						
1987					6	2						
1988			2	1	168							
1989			2									
1990			1		8						1	
1991					1							
1992						25					3	
1993			15		30	25					18	
1994			1			26					5	
1995			1			15					21	
1996			2								19	
1997	5		59			3					15	
1998	3			6							6	
1999	5			66					132		2	
2000	3			8					1		5	
2001				1					3			
2002									17			
2003									7			
2004		138		126				102	181		141	
2005		19		43			23	11	51		41	
2006		6		26				10	33		19	
2007		12		25				12	56	20	22	8
2008				54				141	62	40	40	7
NULL						1						

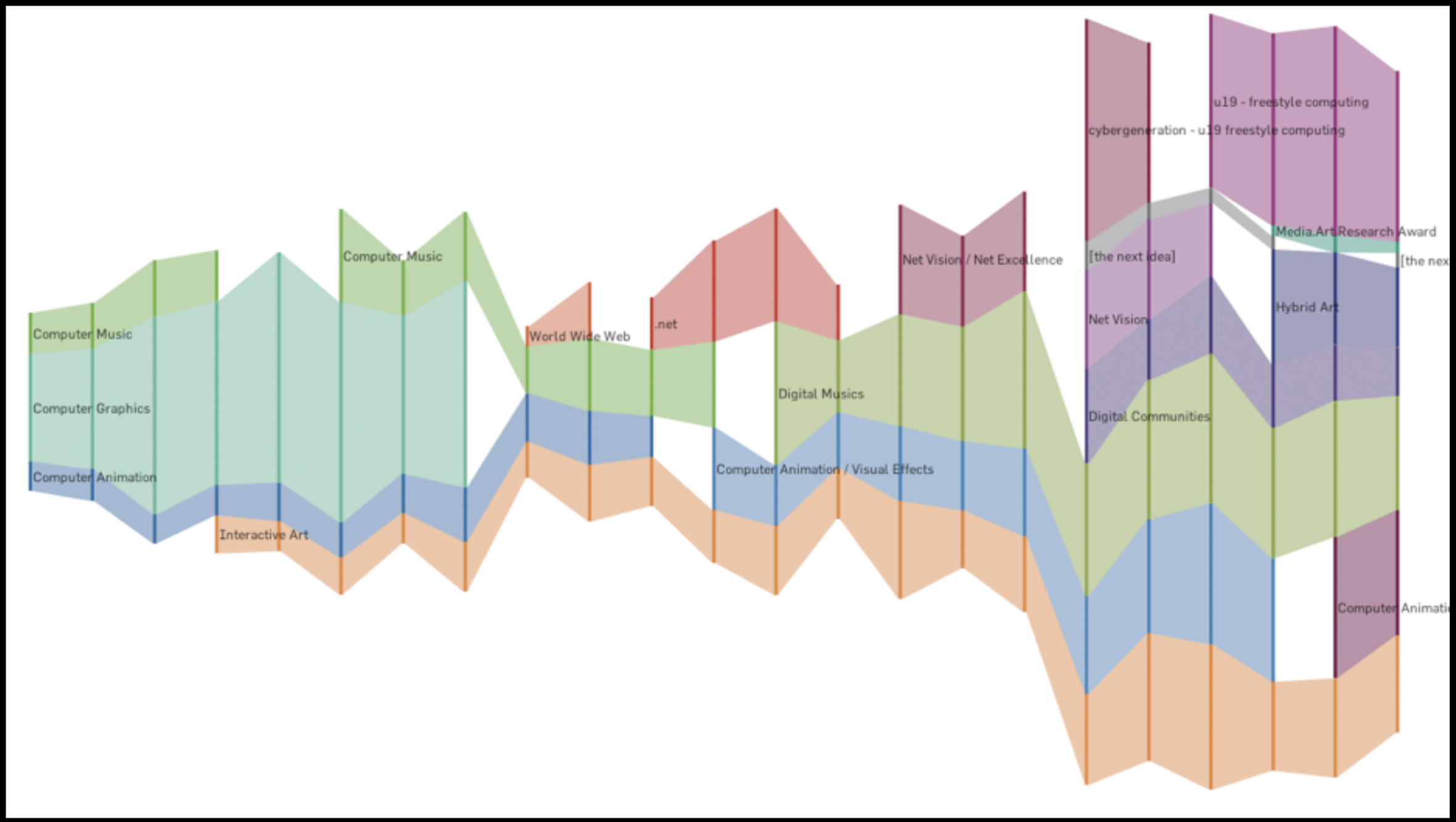
Count of Number of Records broken down by country (group) and prixcategory_en vs. sYear. Size shows count of Number of Records. The data is filtered on country, which keeps Null, - and NULL. The marks are labeled by count of Number of Records.

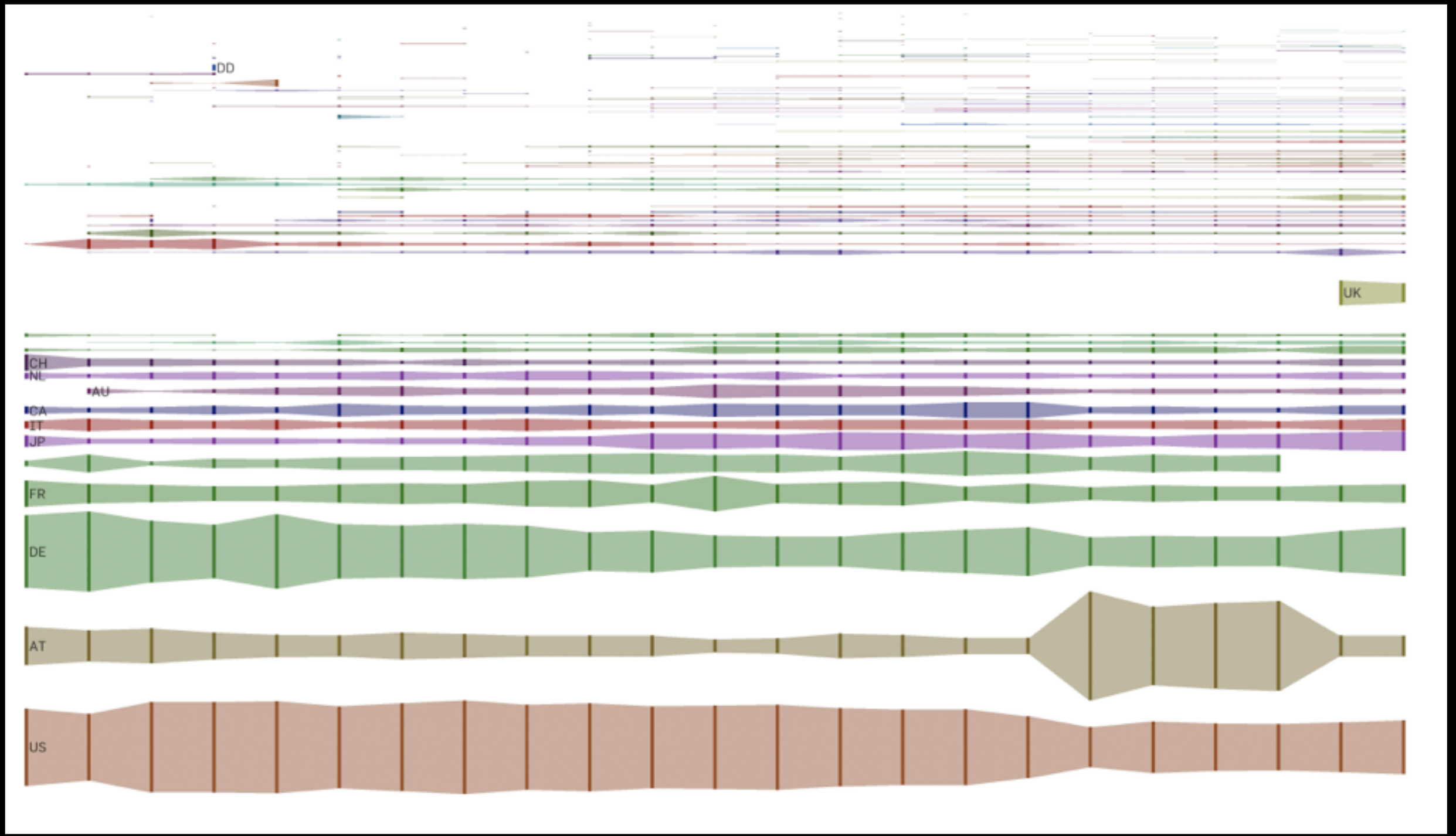

100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
US
UK
NL
JP
IT
FR
DE
CA
AT
num submissions
Distinction
Honorary Mention
Golden Nica

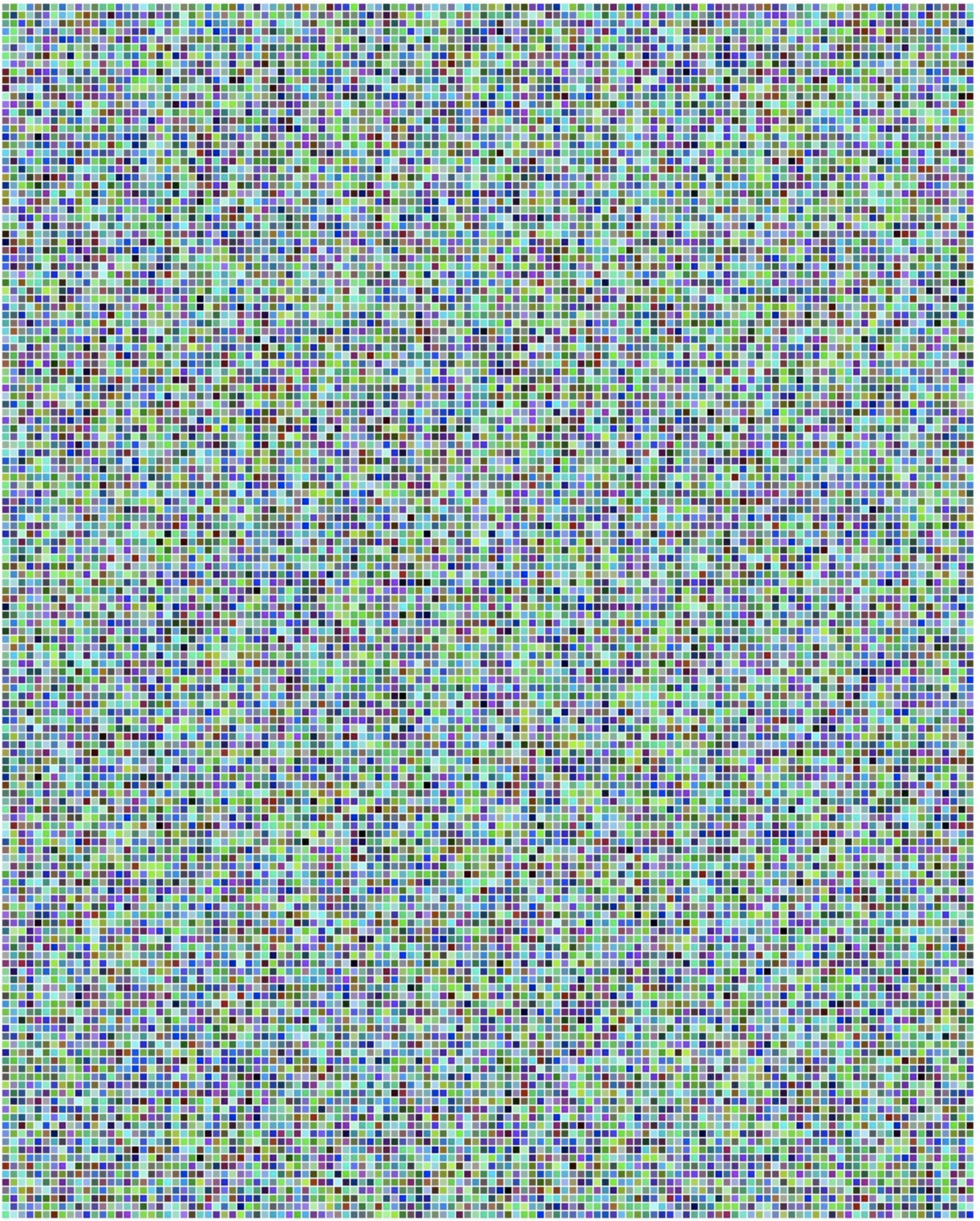

companies
sCompany
Heure Exquise
Vancouver Film School
School of visual arts
Phthalo
SUPINFOCOM
IAMAS
Pratt Institute
Universitat de les Illes Balears
Ensad/Atelier d'Image et d'In..
Heure Exquise!
MIT Media LAB
University of Waterloo
Atelier d'Image et d'Informati..
Middlesex Polytechnic/CAS..
sixpackfilm
Av-Arkki
Correnti Magnetiche
Carnegie Mellon University
Ringling School of Art and D..
School of Television + Imagi..
School of Visual Art
ENSAD_All
Universidad de las Islas Bale..
CNBDI: Centre National de l..
MIT Media Laboratory
The Ohio State University
Universitat Illes Balears - Ma..
Ex Machina
Dahinden
IRCAM
New York University
Texas A&M University
University de les Illes Balear..
Australian Film Television & ..
cnbdi-Lin
International Academy of Me..
NAD Centre (National Anima..
none
School of Television & Imagi..
School of the Art Institute of ..
The Mill
Touch
Archimedia
Kirkw orks
sCategorytitleE
.net
Computer Animation
Computer Animation / Visual Effects
Computer Graphics
Computer Music
Digital Musics
Interactive Art
Net Vision / Net Excellence
World Wide Web

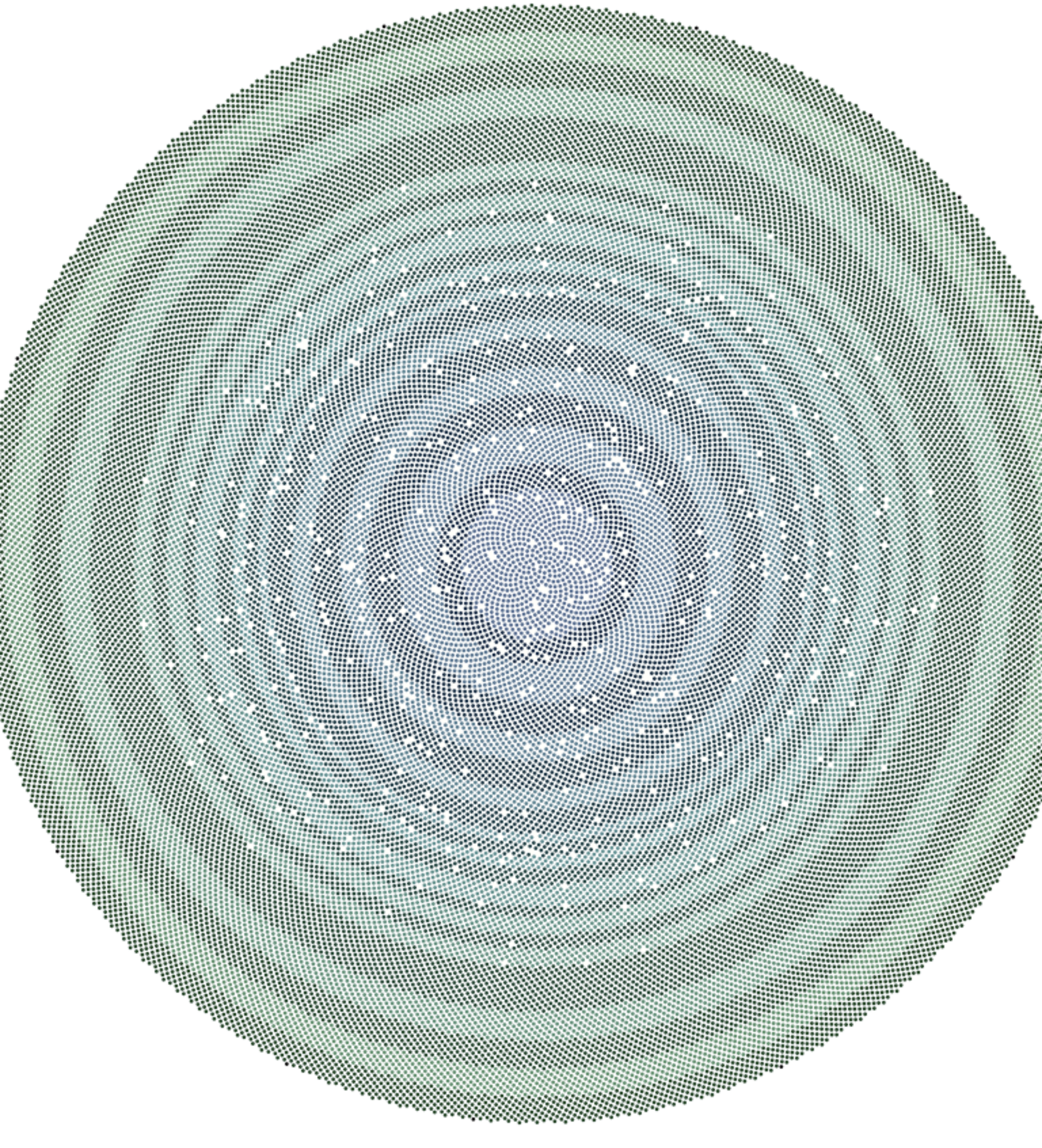


The trends of count of Number of Records, % distinct companies and % distinct artists (copy) for sYear. Color shows details about count of Number of Records, % distinct artists (copy) and % distinct companies. The data is filtered on Fullname, which excludes .

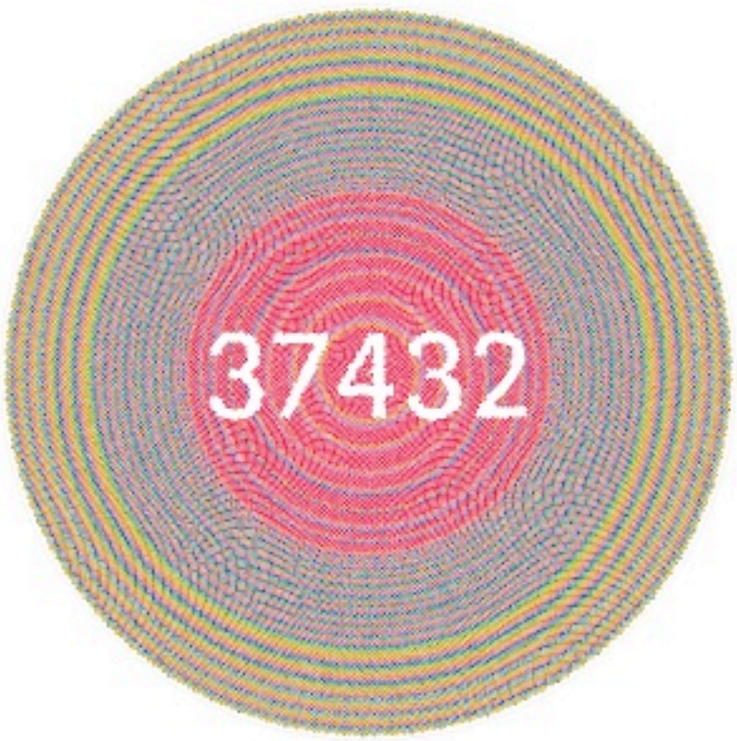

Computer Music
Computer Graphics
Computer Animation
Computer Music
Interactive Art
World Wide Web
.net
Digital Musics
Computer Animation / Visual Effects
Net Vision / Net Excellence
cybergeneration - u19 freestyle computing
u19 - freestyle computing
[the next idea]
Net Vision
Digital Communities
Media.Art Research Award
Hybrid Art
[the nex
Computer Animati


DD
UK
CH
NL
AU
CA
IT
JP
FR
DE
AT
US





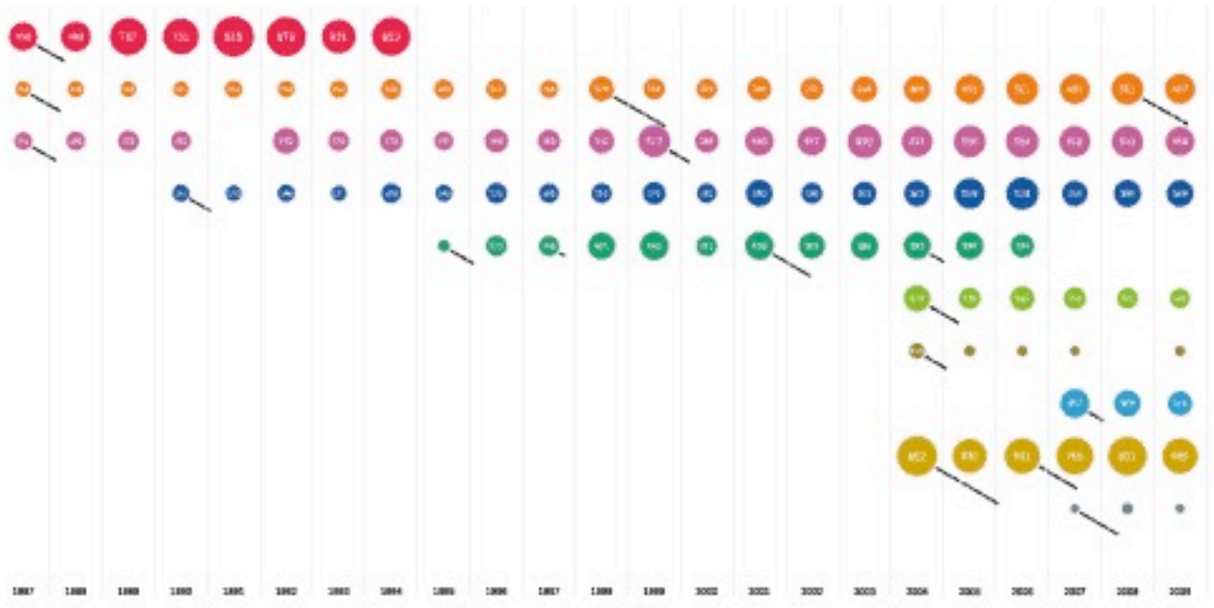
ALL SUBMISSIONS



BY YEAR



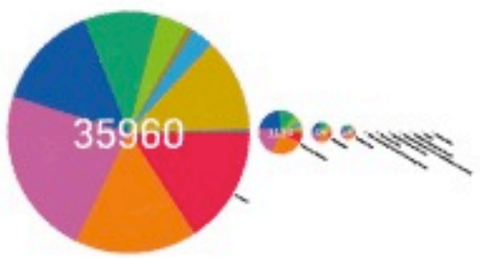
CATEGORIES BY YEAR



BY CATEGORY



BY PRIZE



BY COUNTRY



MATERIAL EXPLORATION

What's

available

significant

interesting

the scale

feasible

Where are the anchor points?

What does it afford?

http://berglondon.com/blog/2009/10/23/toiling-in-the-data-mines-what-data-exploration-feels-like/

Toiling in the data-mines: what data exploration feels like



BERG blog post serial #939
October 23rd, 2009 by Tom Armitage
See also ashdown code data materialexploration

Matt's mentioned in the past few summaries of weeks that I've been working on 'material exploration' for a project called Ashdown. I wanted to expand a little on what material exploration looks like for code and what it feels like to me, because it feels like a strange and foreign territory at times. This is my second material exploration of data for BERG, the first being at the beginning of the Shownar project.

There are several aspects to this post. Partly, it's about what material explorations look like when performed with data. Partly, it's about the role of code as a tool to explore data. We don't write about code much on the site, because we're mainly interested in the products we produce and the invention involved in them, but it's sometimes important to talk about processes and tools, and this, I feel, is one of those times. At the same time, as well as talking about technical matters, I wanted to talk a little about what the act of doing this work feels like.

Programmers very rarely talk about what their work feels like to do, and that's a shame. Material explorations are something I've really only done since I've joined BERG, and both times have felt very similar – in that they were very, very different to writing production code for an understood product. They demand code to be used as a sculpting tool, rather than as an engineering material, and I wanted to explain the knock-on effects of that: not just in terms of what I do, and the kind of code that's appropriate for that, but also in terms of how I feel as I work on these explorations. Even if the section on the code itself feels foreign, I hope that the

Archives
November 2009
October 2009
September 2009
August 2009
July 2009
June 2009
May 2009
April 2009
March 2009
February 2009
January 2009
September 2008
May 2008
February 2008
December 2007
October 2007
September 2007
August 2007
July 2007
June 2007
March 2007
February 2007

3c acts adaptive-design ads advertising animation announcement apps ar ashdown augmented reality augmentedreality availabot bbc berg books celebrating-function chumby cities code comics comics-whatever communication computing concept counterfactuals CSM cybernetics data design drawing ebooks electronics elements elsewhere energy environments epublishing ethnography film fonts futures games graphic graphics hardware hat hiring history hobbies icon india interaction interactions Interesting2007 interface launch lego links machinelearning macroscopes manufacture map markets materialexploration mechanical metalphone

Trends

Synergies between art, information graphics and visualization

ENVIRONMENT

ECONOMICS

green = safe

migrant health networks

health localism

p2p health management

NETWORKED GREEN HEALTH

space as market

orbital debris

ubiquitous cubesats

SPACE: THE NETWORKED FRONTIER

digital labeling and packaging

urgency filters on drugs

social networking tools for gift economie

new search engines: multimedia, social, "human flesh"

OPEN-SOURCE DEVELOPMENT

open food

open media

open pharma

open-source science

sulphate injection of stratosphere

new global cities

translocal alliances

local & translocal alternative currencies

FILTERS AS BRANDS

Google

amazon

academic recognition/ reward crisis

filantropy credits

TRANSLOCALISM

agricultural waste sequestration

non zero sum currencies

carbon accounting

international scramble for farmland

clean coal renaissance

waste liabilities

global conflict over climate goals and impacts

new resource based geo-identities

ocean iron fertilization

mobile phone minutes as currency

local clean industry ventures

SOLIDARITY NETWORKS

NGO to NGO networks

Medea Hypothesis

social stock exchange

GEOENGINEERING

Fe

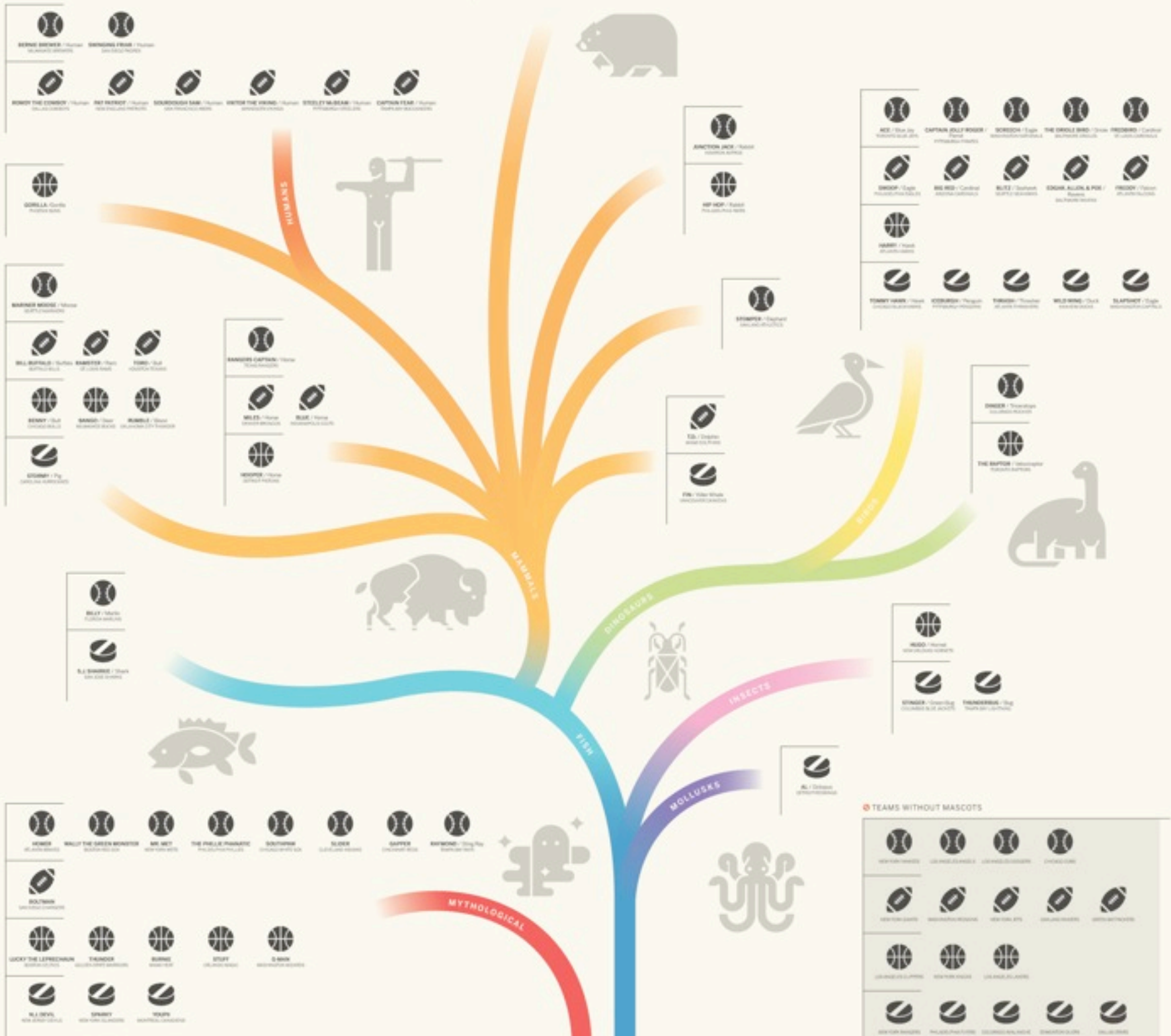
ALTERNATIVE CURRENCIES

micro-philantropy networks

MULTI SECTOR SOLUTIONS

THE HALL OF MASCOTS

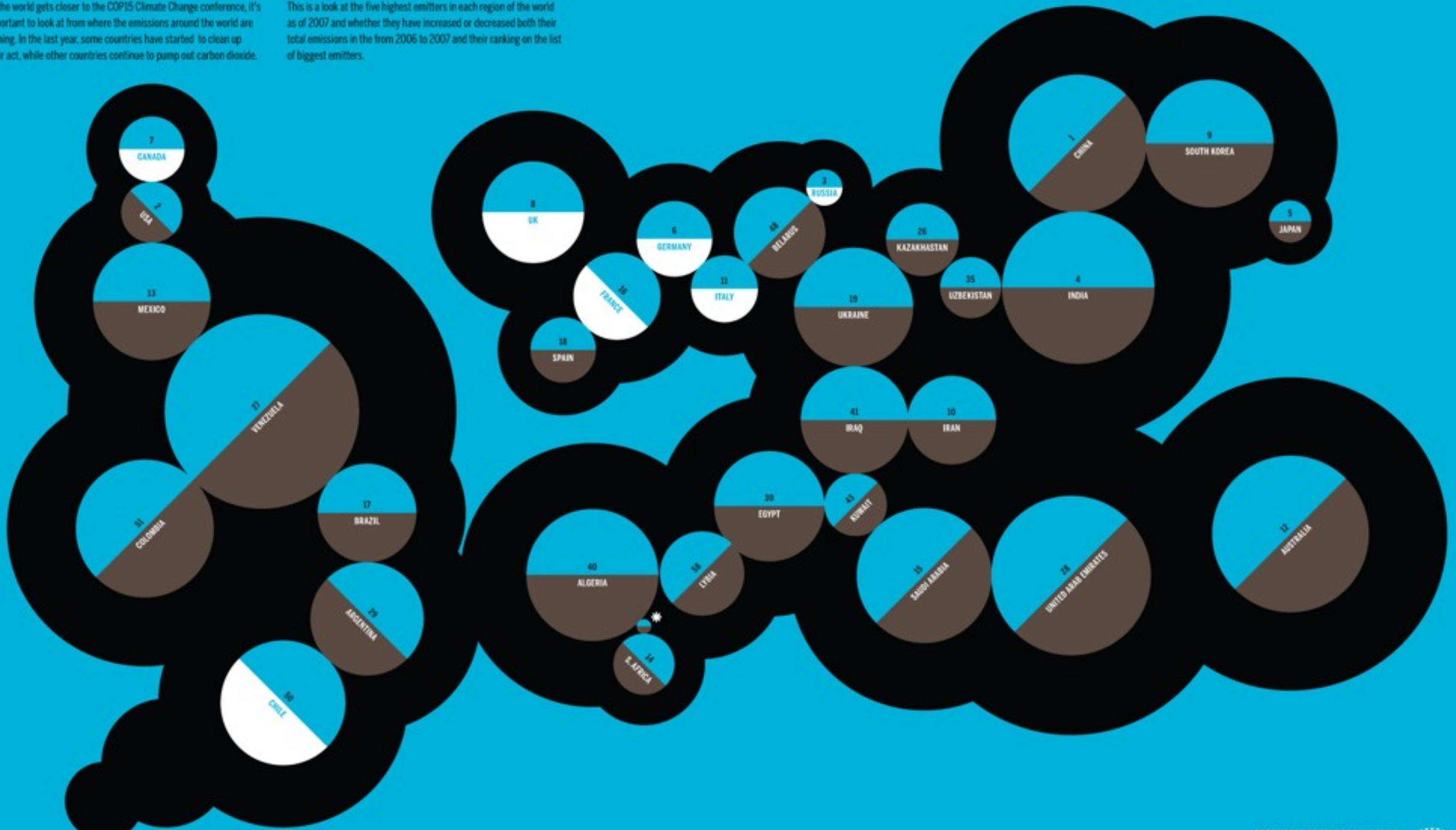
Basketball and hockey have just wrapped up exciting playoffs, baseball is in full bloom, and football training camps are starting soon. It's a great time for sports, and a great time for sports mascots, those oversized toys that help get us excited at games by dunking off of trampolines or riding around in little cars. Here is a look at all the mascots of the four major sports and how they are divided among the animal kingdom.



GLOBAL EMISSIONS

As the world gets closer to the COP15 Climate Change conference, it's important to look at from where the emissions around the world are coming. In the last year, some countries have started to clean up their act, while other countries continue to pump out carbon dioxide.

This is a look at the five highest emitters in each region of the world as of 2007 and whether they have increased or decreased both their total emissions in the from 2006 to 2007 and their ranking on the list of biggest emitters.



AREA EQUALS PERCENT INCREASE OR DECREASE OF EMISSIONS IN THE LAST YEAR

RANKING
COUNTRY

PERCENTAGE OF EMISSIONS INCREASE FROM 2006 TO 2007

NORTH AMERICA		CENTRAL & SOUTH AMERICA		EUROPE		EURASIA		AFRICA		MIDDLE EAST		ASIA & OCEANIA	
UNITED STATES	1.4	BRAZIL	3.7	GERMANY	-2.2	RUSSIA	-0.4	SOUTH AFRICA	1.4	IRAN	3	CHINA	7.2
CANADA	-1.6	VENEZUELA	14.2	UNITED KINGDOM	-3.8	UKRAINE	5.4	EGYPT	4.6	SAUDI ARABIA	6.8	INDIA	8.7
MEXICO	5.2	ARGENTINA	5.9	ITALY	-1.7	KAZAKHSTAN	1.9	NIGERIA (37) ●	0.3	UNITED ARAB EMIRATES	10	JAPAN	0.7
		CHILE	-7.2	FRANCE	-2.9	UZBEKISTAN	1.4	ALGERIA	6.6	IRAQ	4.4	SOUTH KOREA	6.1
		COLOMBIA	4.9	SPAIN	1.7	BELARUS	3.2	LIBYA	2.7	KUWAIT	1.5	AUSTRALIA	9.2

EMISSIONS	RANKING		
	UP	NO CHANGE	DOWN
DECREASE			
INCREASE			

A COLLABORATION BETWEEN GOOD AND LAMOSCA

SOURCE: U.S. ENERGY INFORMATION ADMINISTRATION

Kyoto: Who's On Target?

projections for 2010

target

% on target

% under target

% on target (with "extras")

extras if a country can't meet its carbon reduction targets, it can invest in overseas carbon trading and infrastructure schemes to offset its debt.

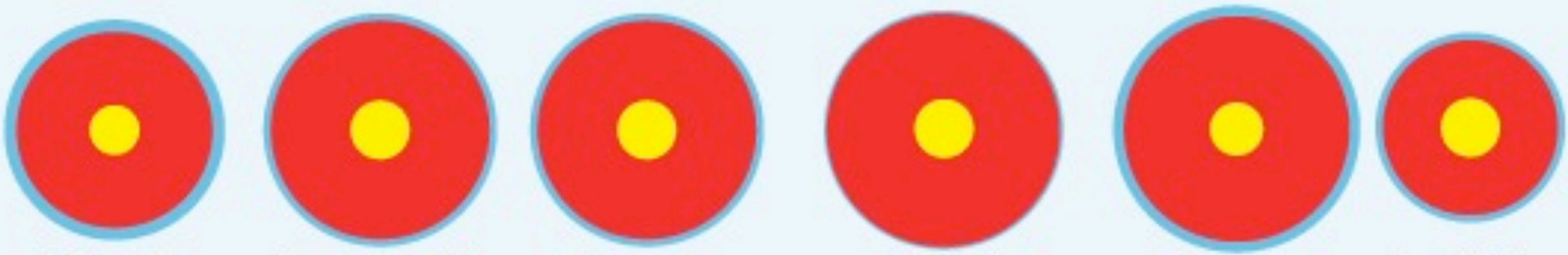
BULLSEYE!



Greece Germany Sweden England

ON TARGET

look like they're doing very well due of a lack of pre-Kyoto records to compare against



Bulgaria Czech Republic Hungary Poland Romania Slovak Rep.

THE US CREDIT CARD CRISIS

Key Facts:

Some credit card companies made lobbying efforts at the federal level to tighten American bankruptcy law, making it harder to have credit card debts canceled.

There were 984 million bank-issued Visa and Master Card credit card and debit card accounts in the U.S in 2006.

Consumers carry more than 1 billion Visa cards worldwide. More than 450 million of those cards are in the United States.

The US accounts for **40%** of world credit card spending

PER CAPITA CREDIT CARD DEBT:



Most general purpose credit cards in circulation in 2008



Bank of America
Profit gained
1.07 Billion

Capital One
Profit gained
1.00 Billion

WELLS FARGO
Profit gained
0.99 Billion

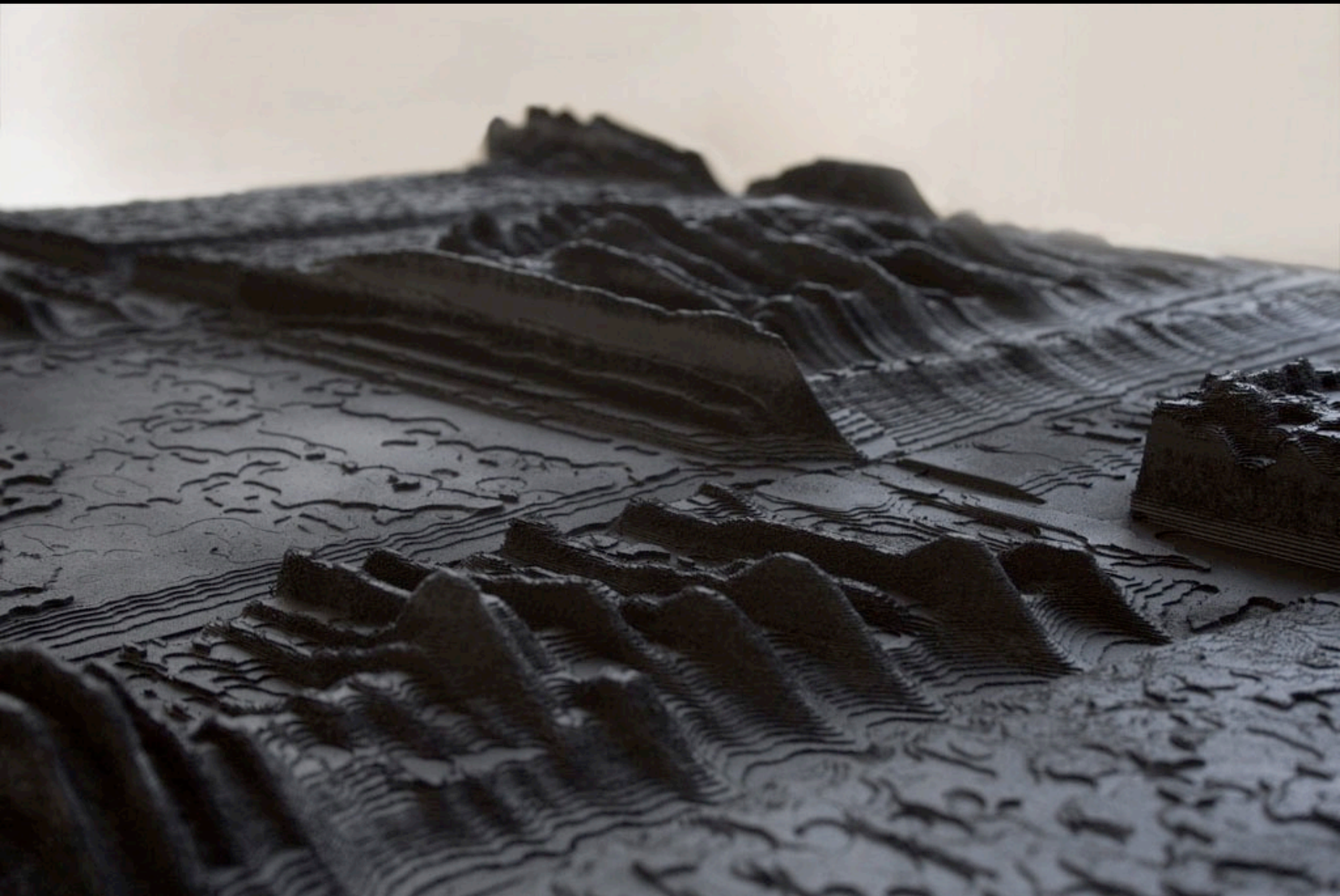
AMERICAN EXPRESS
Profit gained
0.85 Billion

CHASE
Profit gained
0.78 Billion



REFLECTION

Andreas Fischer

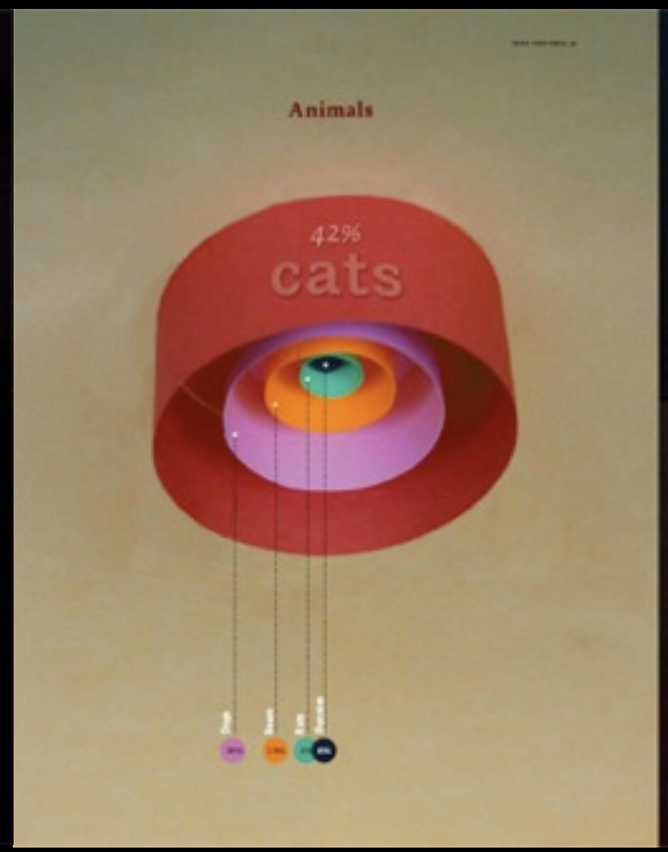


DEAR GRETCHEN

Gretchen Nash | http://www.gretchenetc.com/











WE FEEL FINE

Harris / Kamvar 2005

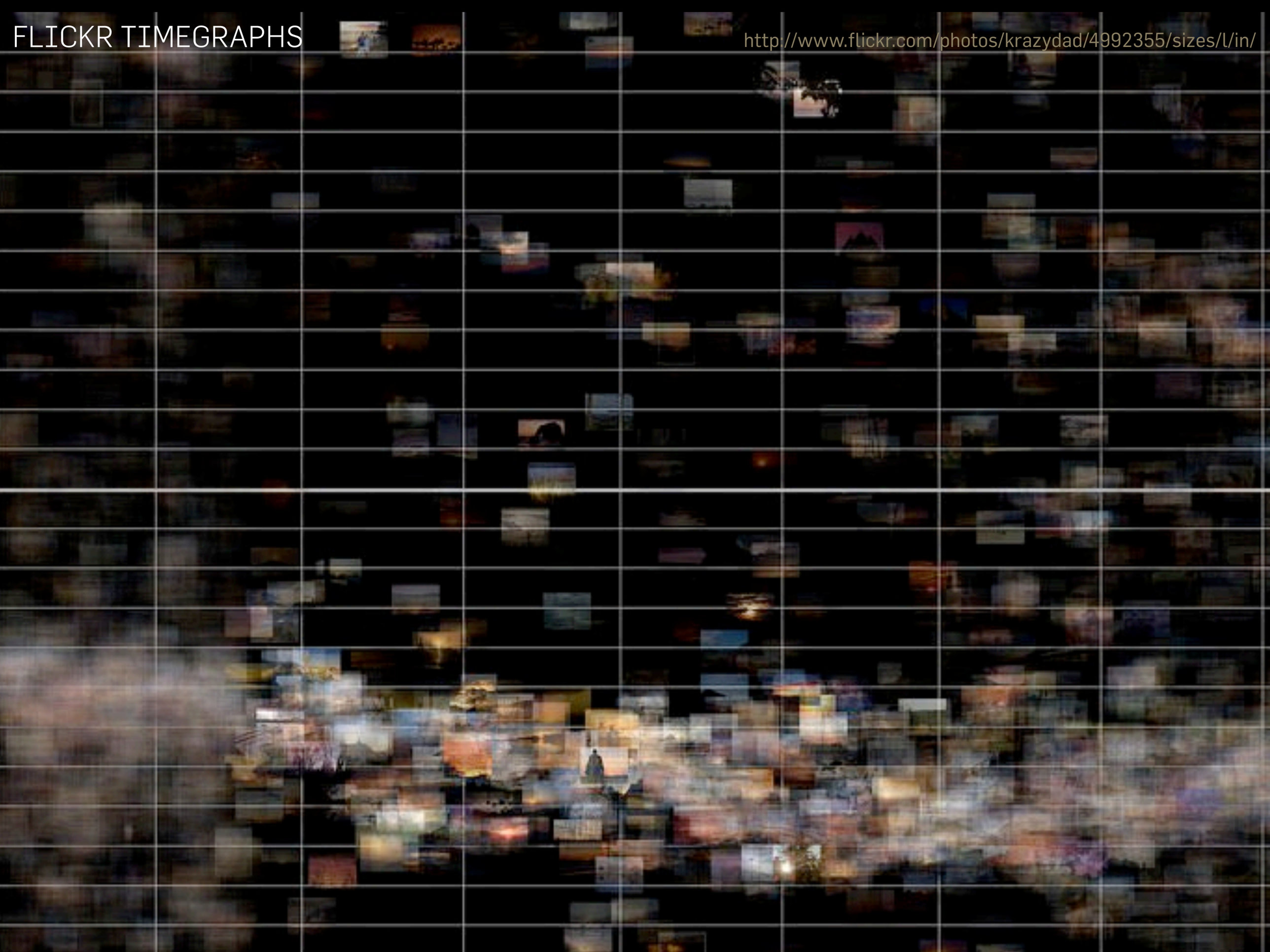


AN ALMANAC *of* HUMAN EMOTION

SEP KAMVAR AND JONATHAN HARRIS

FLICKR TIMEGRAPHS

http://www.flickr.com/photos/krazydad/4992355/sizes/l/in/



1K PROJECT



Collaborative visualization

The New York Times
Saturday, October 31, 2009

Visualization Lab

Welcome to **Visualization Lab,** *where you can create visual representations of data and information using the "Many Eyes" technology from IBM Research.*

Create your own visualizations using data from today's news

Get Started

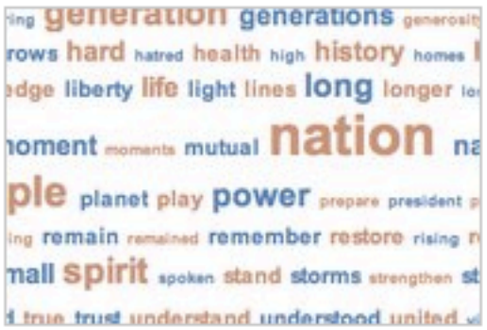
Overview
Visualizations
Data Sets
Topics
My Lab
About Visualization Lab
Help

Visualization Software by IBM

Featured Visualizations

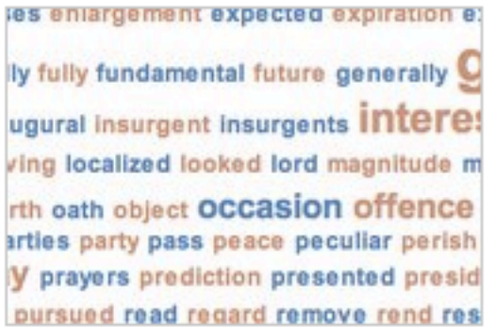
FROM THE NEW YORK TIMES | FROM VISUALIZATION LAB USERS

Barack Obama's inauguration address



Created by The New York Times
Comments(7)

Lincoln's Second Inauguration



Created by by The New York Times
Comments(0)

Consumer Price Index, Monthly Change



SAT vs. city performance grades



sense.us > jobs - Mozilla Firefox

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http://sense.us/jobs#scale=1&gender=All&query=military&comment=154 (f)

Go

sense.us / jobs

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Reported Occupations of U.S. Labor Force, 1850-2000 (source: http://ipums.org)

>> military (a)

all men women % of Work Force

2.0%

1.5%

1.0%

0.5%

Cold War

Fall of Soviet Union
Recession

WW I

WWII

Military

Civil war

Depression

Military

1950 1870 1900 1920 1940 1960 1980 2000 (b)

Annotate Stroke Fill Sans-Serif 14 B I

comments (5) **New Comment | View All (139)** (e)

here are labels where I would have expected big jumps.
by **Martin Sharp** on Fri Jul 21, 2006 10:16 AM

well, there was also the cold war right after ww2, which might be part of the reason why there's such a huge jump after the 40s. It is also interesting that there is such a drop between the 70s and the 80s.
by **Julia Hernandez** on Fri Jul 21, 2006 11:01 AM

I guess a lot of it has turned to robots, and the industrial complex, as martin suggested, though it would be interesting to see the comparison of the fall in military personal next to the rise in DOD funding for robots and industry.
by **Jesse O'Brien** on Fri Jul 21, 2006 11:51 AM

I think the jumps have more to do with the economy at large rather than any particular military conflict. Lots of money in conflict has already been spent before the conflict starts.
by **Fred Klein** on Wed Aug 2, 2006 10:24 AM

reply

Is this military info right?

B I U ABC

I would agree with that... also see this: link (d)

Submit Cancel

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(c)

ibm visual communication lab privacy feedback help See something interesting? Add a comment, it's easy!

Done

maeve installation

maeve

MACE | EVERYVILLE
interactive installation at the Venice Biennale '08

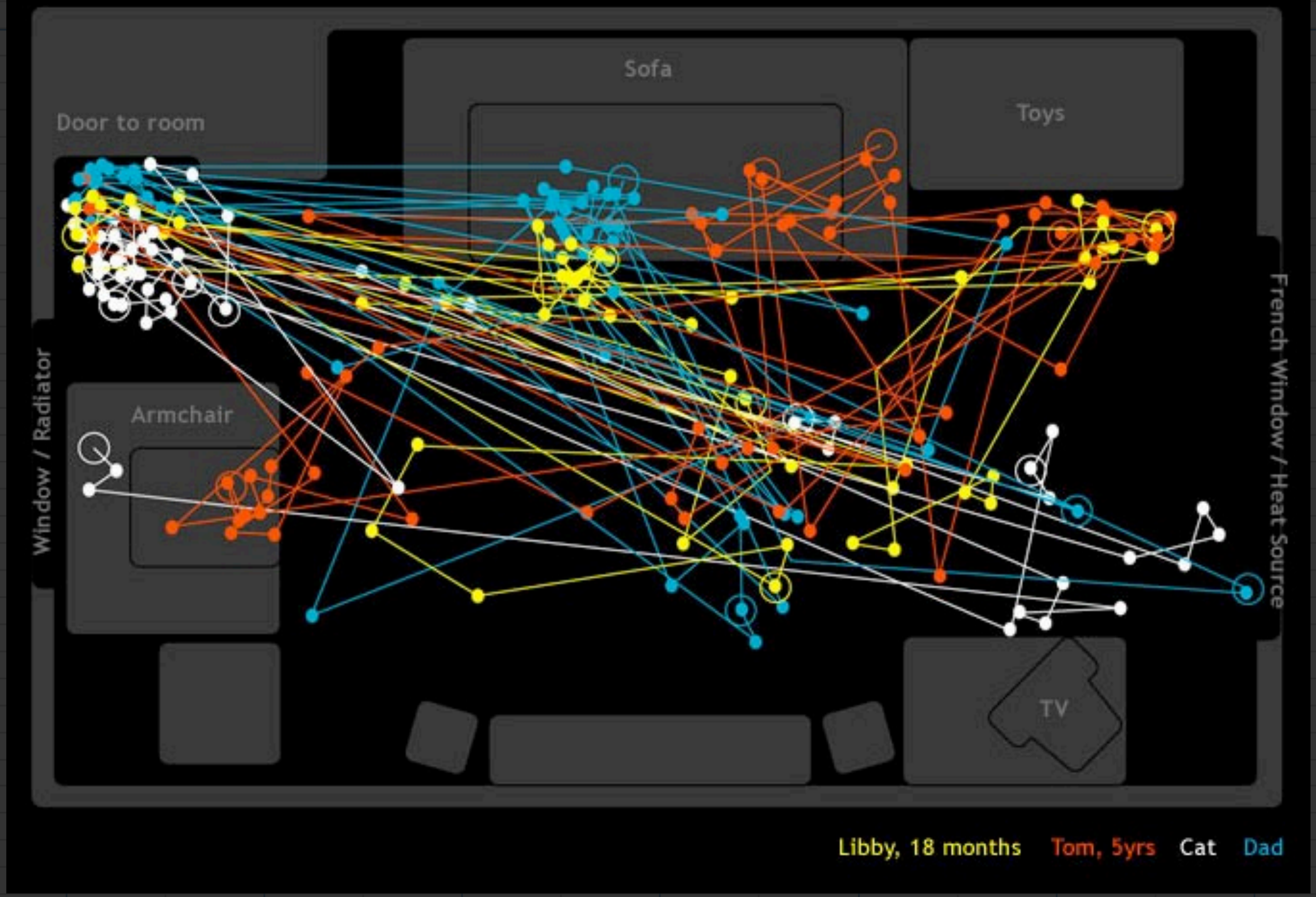
Casual visualization and infovis humour



INAUGURATION SPEECH WORDLE CLOUD

http://www.wordle.net/gallery/wrdl/451912/Obama_Inauguration_Speech_tag_cloud

Maps That Tell Tales > 1hr in Front of the TV



1HR IN FRONT OF THE TV

http://www.flickr.com/photos/the_bumblebee/2229041742/sizes/o/

DAY TUM

SIGN IN

HUNNICUTT

645 ENTRIES

TICK TOCK (3 MINUTES AGO)

LUNCH AFTER 1PM 23.0

IN BED AFTER 12AM 13.0

LUNCH BY 1PM 8.0

IN BED AFTER 11PM 8.0

IN BED AFTER 1AM 8.0

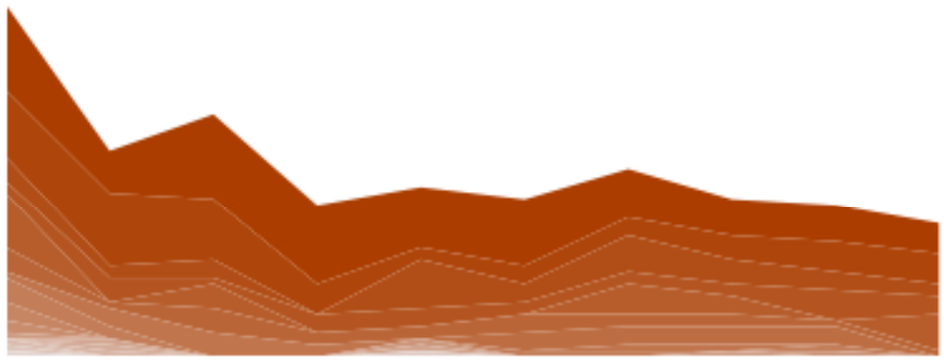
IN BED AFTER 10PM 3.0

LUNCH BEFORE NOON 1.0

MILES TRAVELED (ABOUT 14 HOURS AGO)

1,229.25

ITEMS IN MY MOUTH (2 MINUTES AGO)



1. SWEET TEA (98.0)
2. REDMAN (60.0)
3. COFFEE (35.5)
4. SMALL BREAKFAST (27.0)
5. FROZEN PIZZA (SLICES) (27.0)
6. BIG BREAKFAST (22.0)
7. WATER (12.5)
8. PB&J (12.0)
9. ORANGE JUICE (10.5)
10. BEEF RIBS (3.0)
11. PORK RIBS (3.0)
12. FASTFOOD (BURGER) (2.0)
13. GRITS (2.0)
14. BURRITO (2.0)
15. P.T.'S GRILLE (1.0)
16. T-BONE (1.0)
17. HOMEWRECKER (MOE'S) (1.0)
18. BURGER (VENISON) (1.0)
19. SUNDROP (1.0)
20. CHEESESTEAK (ANDY'S) (1.0)

TWO MORE ITEMS (0.0)

bedpost BETA It's business time.

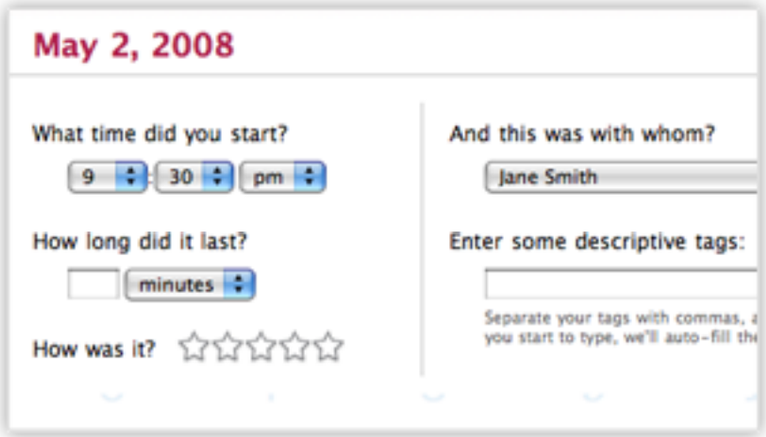
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Ever wonder how often you get busy?

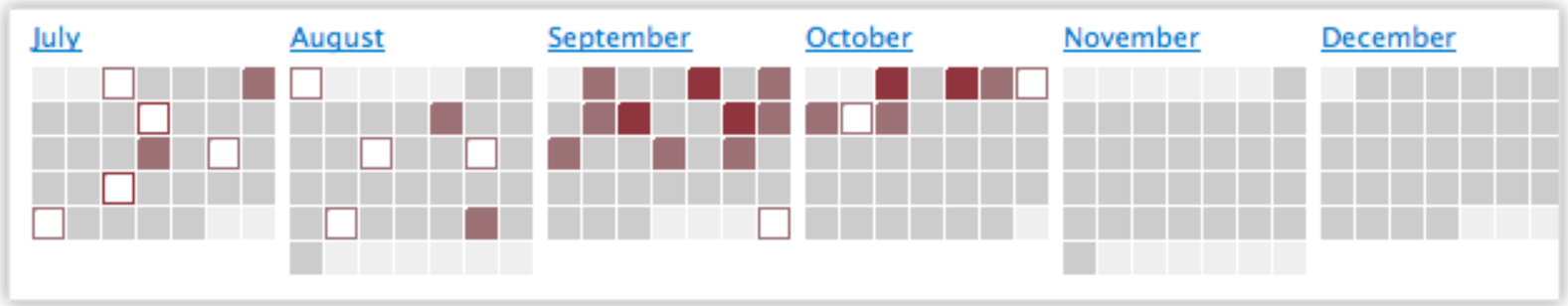
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Pretty soon, you'll have a rolling history of your sex life on which to reflect.

Beta Testers Sign In

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Password:

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PRIVATE BETA SIGN-UP

Bedpost Micro-blog

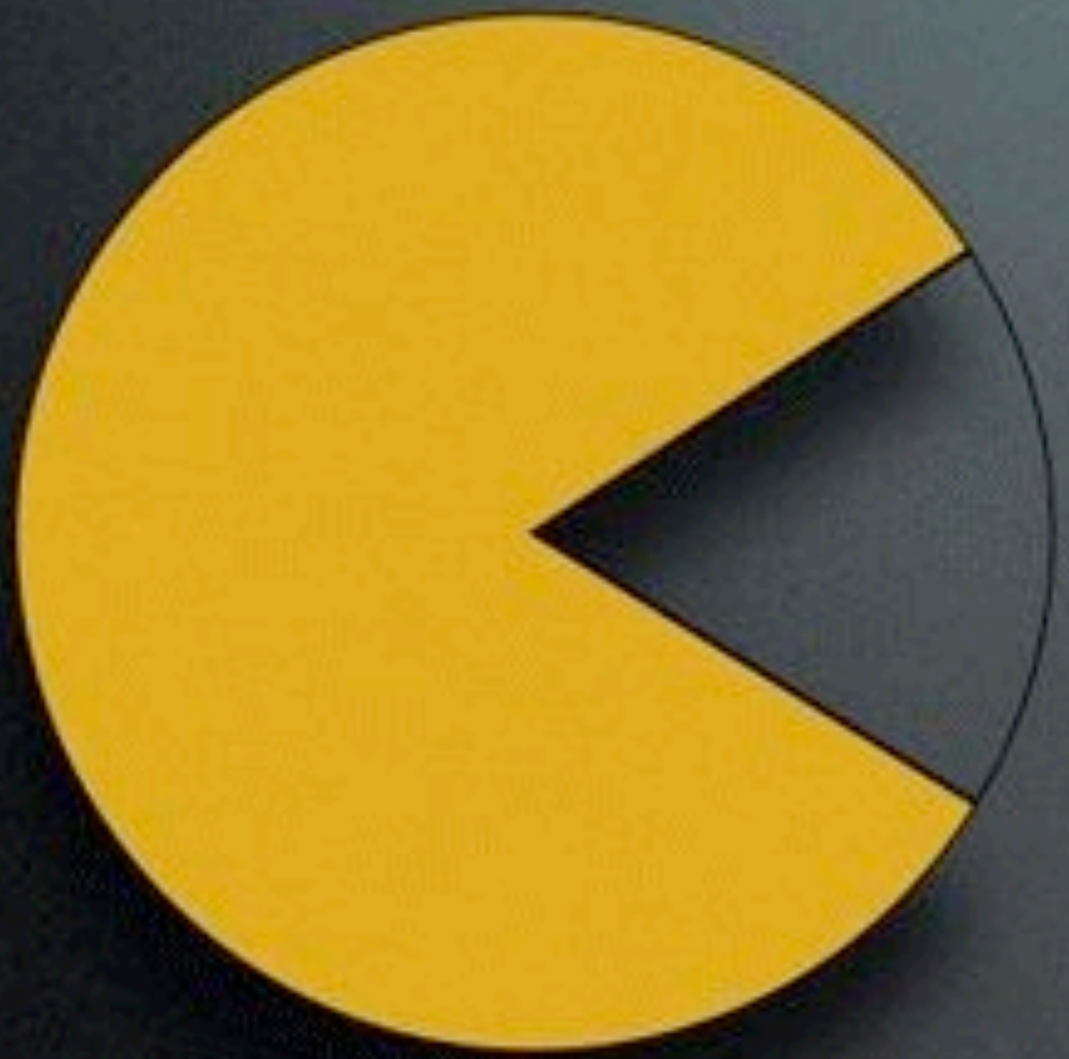
We're seeing a lot of bounces coming back from Hotmail. If you signed up with a Hotmail address, contact us at feedback(at)bedposted.com.
from web

Just got caught up on invites, so if you've asked for a one and haven't received it, let us know. Lots of our invitations get bounced back.
from EventBox

@diabola That's what I use it for, it's still really fun with one partner. :)
from web

We just crossed the 5,000 user mark! Yay!

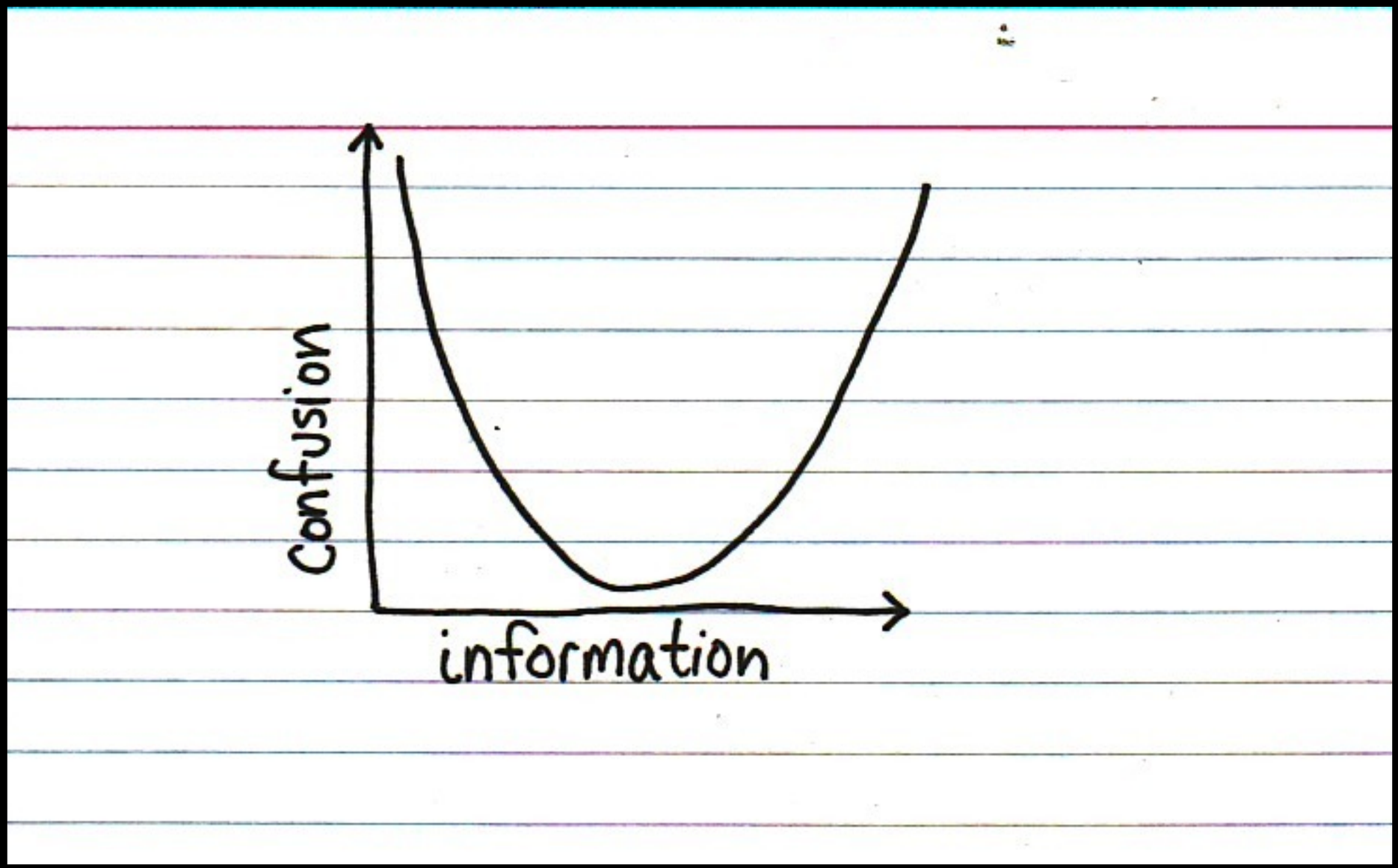
Percentage of chart which looks like Pac-man

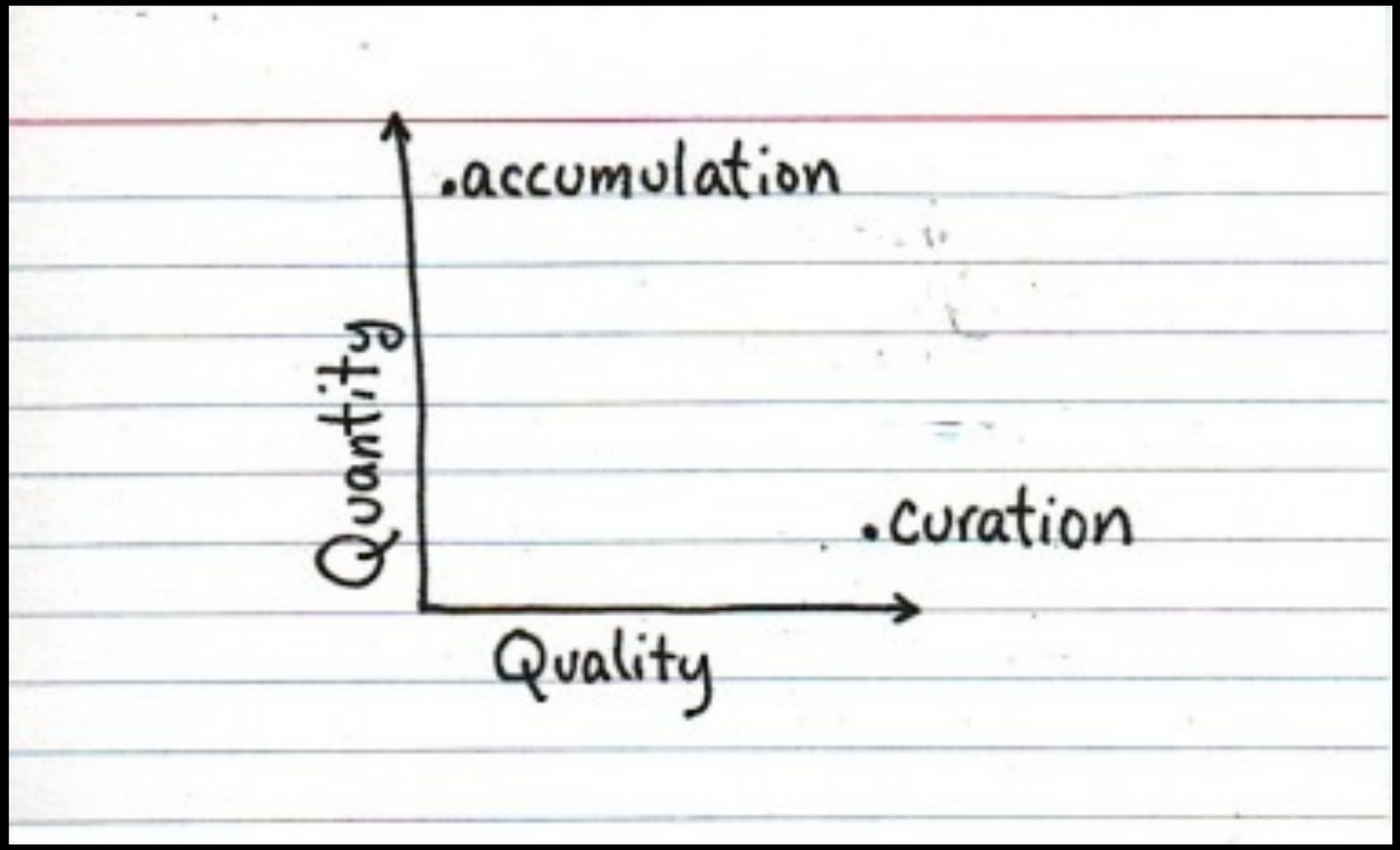


Looks like Pac-man

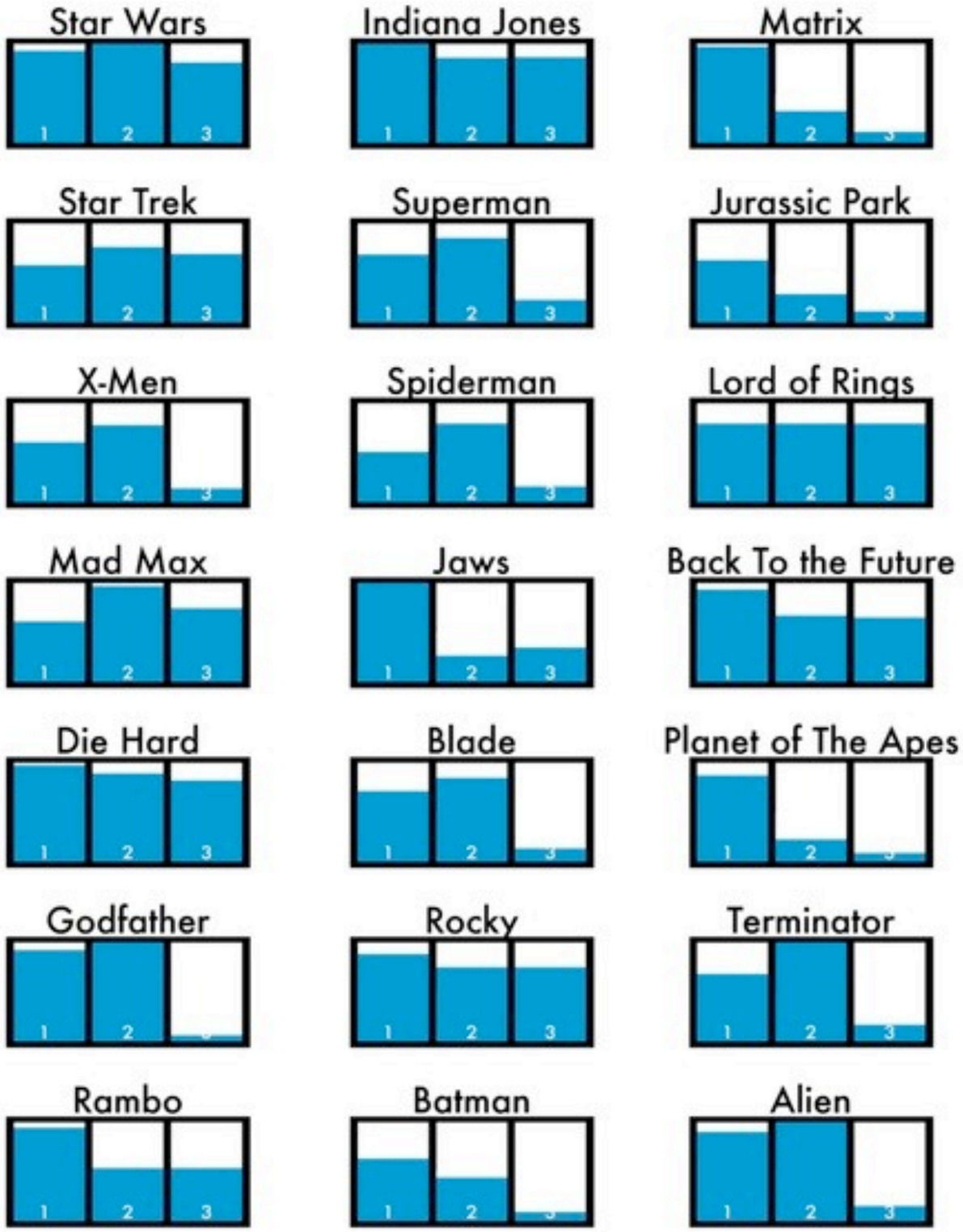
Does not look like Pac-man

Jessica Hagy




.accumulation
Quantity
.curation
Quality

THE TRILOGY METER



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Weiterführendes

#5

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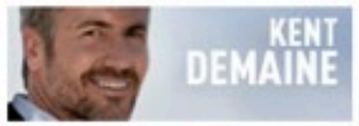
HOME













COMING SOON

COMING SOON



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More Tweets...

SEE ON FLICKR

More pictures...

SPEECHES SEE #1 #2 #3 #4


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More ...


Prof. Joachim Sauter
More ...


Casey Reas
More ...


Carsten Nicolai
More ...


Holger Hoffmann
More ...

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TALKS & LECTURES

Living with information workshop

http://vimeo.com/album/153327/

Jeffrey Heer: A brief history of data visualization

http://hci.stanford.edu/seminar/abstracts/08-09/090306-heer.html

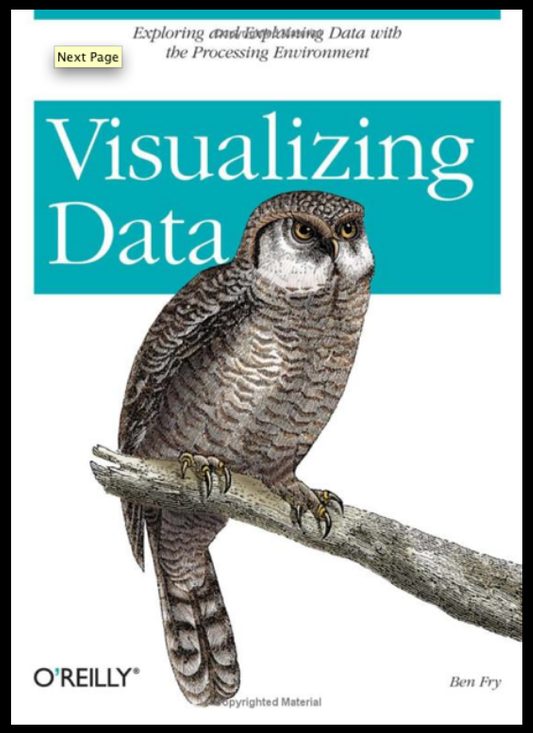
Moritz Stefaner at xtopia 08

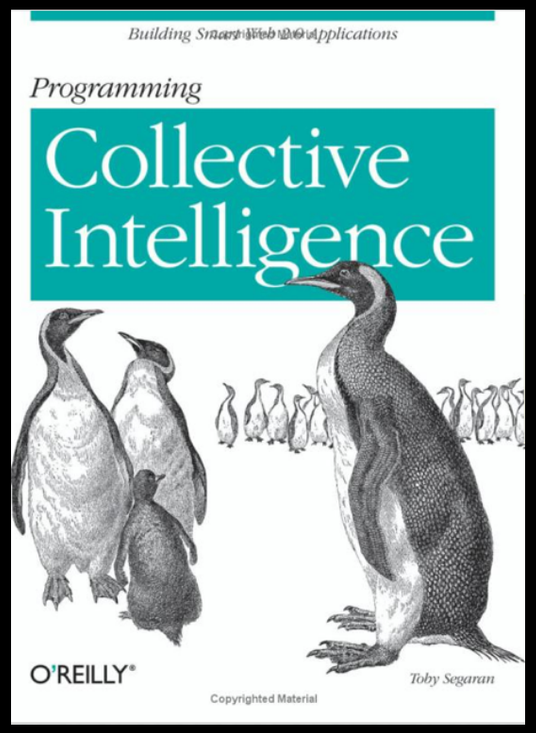
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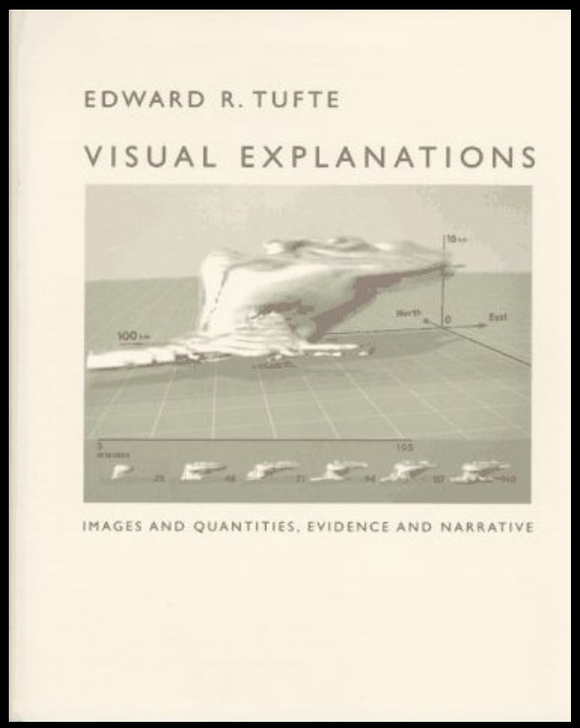
Eric Rodenbeck (stamen)

http://infosthetics.com/archives/2009/04/
eric_rodenbeck_information_visualization_is_a_medium.html

BOOKS



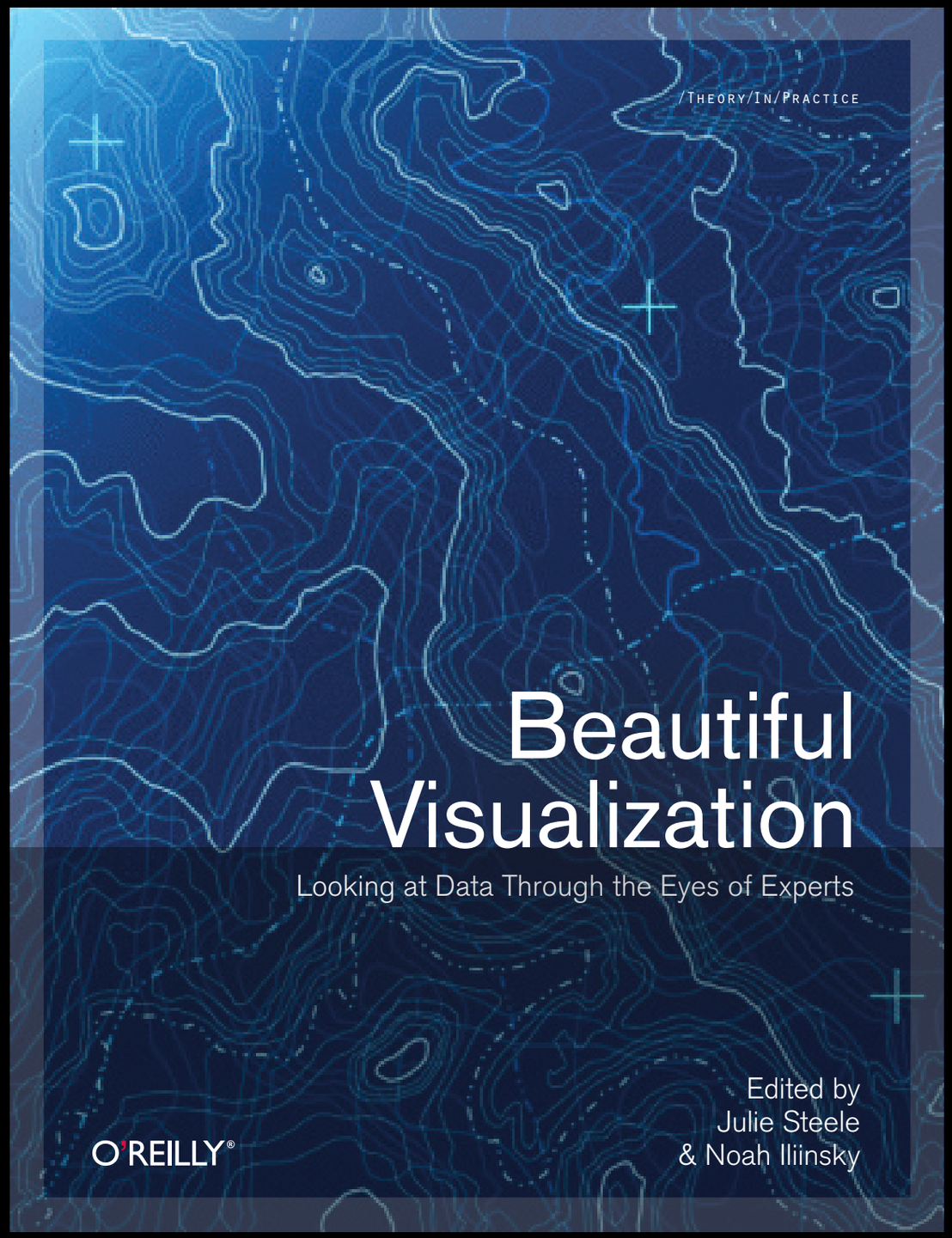






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upcoming


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Q?

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