

Computação aplicada ao design I

Prof. Rodrigo Medeiros
IFPB · Cabedelo · Design

17.03.2020

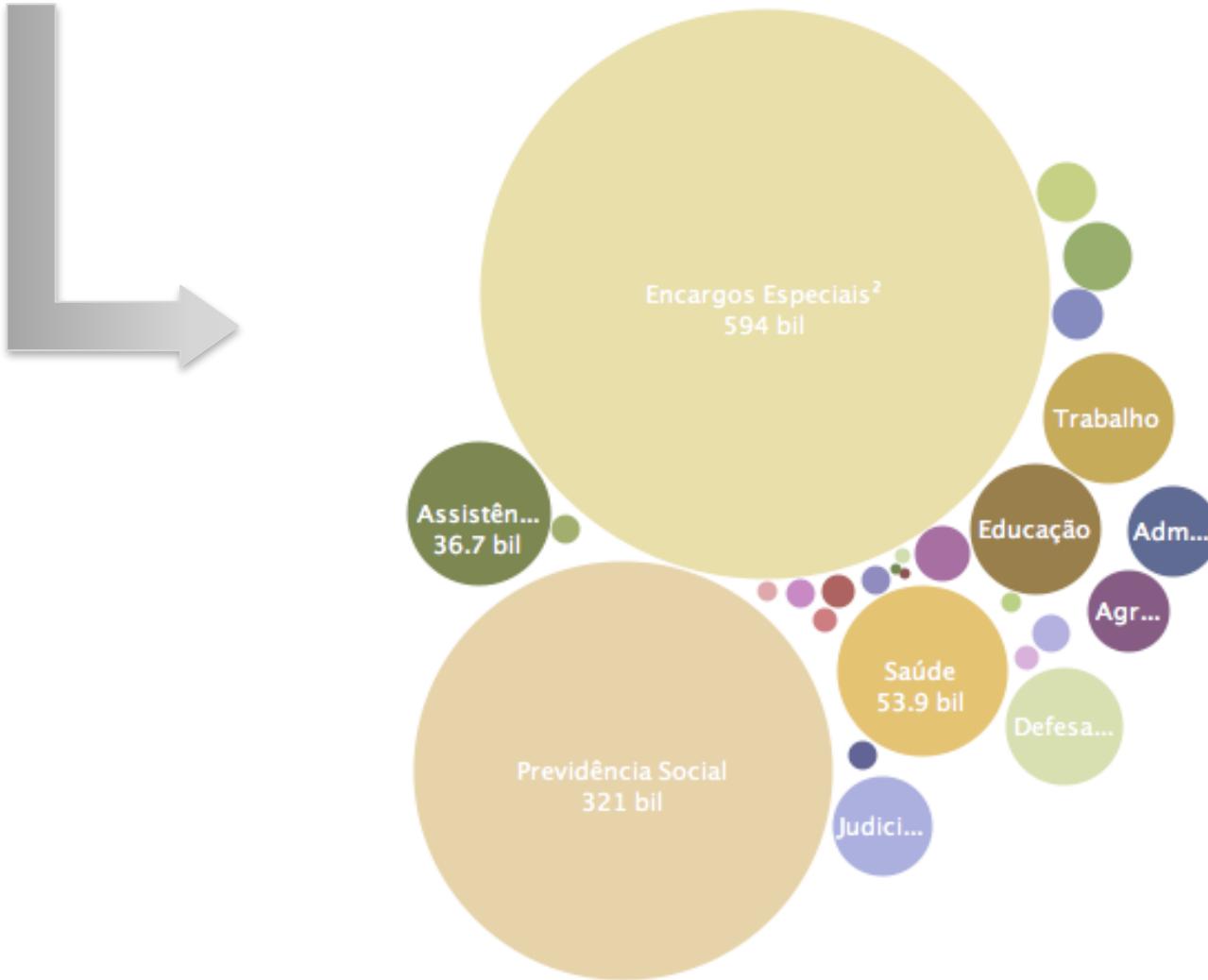


<http://rodrigomedeiros.com.br/cad>

o que danado é
**VISUALIZAÇÃO DE
INFORMAÇÃO?**

Intelligence Users Aerospace & Defense Business Intelligence 154 Aerospace & Defense Composite Solutions 755 Aerospace & Defense Enterprise Performance Management 831 Aerospace & Defense Governance Risk Compliance 755 Aerospace & Defense Integration and Data Management 454 Aerospace & Defense Mobile Solutions 264 Aerospace & Defense On-Demand Solutions 274 Aerospace & Defense Customer Relationship Management 755 Aerospace & Defense ERP 996 Aerospace & Defense Human Capital Management 524 Aerospace & Defense Manufacturing 460 Aerospace & Defense Product Lifecycle Management 691 Aerospace & Defense Supplier Relationship Management 667 Aerospace & Defense Supply Chain Management 526 Automotive Business Intelligence 220 Automotive Composite Solutions 610 Automotive Enterprise Performance Management 674 Automotive Governance, Risk and Compliance 358 Automotive Integration and Data Management 575 Automotive Mobile Solutions 147 Automotive Demand Solutions 63 Automotive Customer Relationship Management 563 Automotive ERP 250 Automotive Human Capital Management 649 Automotive Manufacturing 214 Automotive NetWeaver 497 Automotive Product Lifecycle Management 939 Automotive Service and Asset Management 324 Automotive Supplier Relationship Management 182 Automotive Supply Chain Management 107 Banking Business Intelligence 443 Banking Composite Solutions 326 Banking Enterprise Performance Management 333 Banking Governance, Risk and Compliance 113 Banking Integration and Data Management 251 Banking Mobile Solutions 208 Banking On-Demand Solutions 914 Banking Customer Relationship Management 974 Banking ERP 24 Banking Human Capital Management 731 Banking Manufacturing 567 Banking Product Lifecycle Management 177 Banking Service and Asset Management 566 Banking Supplier Relationship Management 972 Banking Supply Chain Management 97 Building Materials Business Intelligence 334 Building Materials Composite Solutions 137 Building Materials Enterprise Performance Management 276 Building Materials Governance, Risk and Compliance 456 Building Materials Integration and Data Management 122 Building Materials Mobile Solutions 245 Building Materials On-Demand Solutions 6 Building Materials Customer Relationship Management 400 Building Materials ERP 305 Building Materials Human Capital Management 821 Building Materials Manufacturing 474 Building Materials Product Lifecycle Management 604 Building Materials Service and Asset Management 664 Building Materials Supplier Relationship Management 857 Building Materials Supply Chain Management 234 Chemicals Business Intelligence 90 Chemicals Composite Solutions 971 Chemicals Enterprise Performance Management 76 Chemicals Governance, Risk and Compliance 201 Chemicals Integration and Data Management 773 Chemicals Mobile Solutions 486 Chemicals On-Demand Solutions 612 Chemicals Customer Relationship Management 670 Chemicals ERP 714 Chemicals Human Capital Management 131 Chemicals Manufacturing 396 Chemicals Product Lifecycle Management 563 Chemicals Service and Asset Management 487 Chemicals Supplier Relationship Management 24 Chemicals Supply Chain Management 673 Consumer Products Business Intelligence 161 Consumer Products Composite Solutions 305 Consumer Products Customer Relationship Management 989 Consumer Products Governance, Risk and Compliance 456 Consumer Products Integration and Data Management 654 Consumer Products Mobile Solutions 405 Consumer Products On-Demand Solutions 319 Consumer Products Customer Relationship Management 95 Consumer Products ERP 148 Consumer Products Human Capital Management 624 Consumer Products Manufacturing 481 Consumer Products NetWeaver 159 Consumer Products Product Lifecycle Management 163 Consumer Products Service and Asset Management 979 Consumer Products Supplier Relationship Management 792 Consumer Products Supply Chain Management 209 Construction Engineering, Construction & Operations Business Intelligence 865 Construction, Construction & Operations Composite Solutions 285 Construction, Construction & Operations Enterprise Performance Management 34 Construction, Construction & Operations Mobile Solutions 34 Construction, Construction & Operations On-Demand Solutions 66 Construction, Construction & Operations Customer Relationship Management 567 Construction, Construction & Operations ERP 879 Construction, Construction & Operations Product Lifecycle Management 208 Construction, Construction & Operations Supply Chain Management 140 Fabricated Metal Products Business Intelligence 742 Fabricated Metal Products Composite Solutions 867 Fabricated Metal Products Enterprise Performance Management 411 Fabricated Metal Products Governance, Risk and Compliance 738 Fabricated Metal Products Integration and Data Management 633 Fabricated Metal Products Mobile Solutions 274 Fabricated Metal Products On-Demand Solutions 213 Fabricated Metal Products Customer Relationship Management 422 Fabricated Metal Products Manufacturing 406 Fabricated Metal Products NetWeaver 29 Fabricated Metal Products Product Lifecycle Management 88 Fabricated Metal Products Service and Asset Management 194 Fabricated Metal Products Supplier Relationship Management 383 Fabricated Metal Products Supply Chain Management 74 Forest Products, Furniture & Textile Business Intelligence 461 Forest Products, Furniture & Textile Composite Solutions 973 Forest Products, Furniture & Textile Enterprise Performance Management 292 Forest Products, Furniture & Textile Governance, Risk and Compliance 593 Forest Products, Furniture & Textile Management 426 Forest Products, Furniture & Textile Mobile Solutions 259 Forest Products, Furniture & Textile On-Demand Solutions 149 Forest Products, Furniture & Textile NetWeaver 719 Forest Products, Furniture & Textile Product Lifecycle Management 937 Forest Products, Furniture & Textile Service and Asset Management 319 Forest Products, Furniture & Textile Supplier Relationship Management 444 Forest Products, Furniture & Textile Supply Chain Management 690 Healthcare Business Intelligence 219 Healthcare Composite Solutions 169 Healthcare Enterprise Performance Management 270 Healthcare Governance, Risk and Compliance 833 Healthcare Integration and Data Management 248 Healthcare On-Demand Solutions 84 Healthcare Customer Relationship Management 718 Healthcare Human Capital Management 189 Healthcare Manufacturing 857 Healthcare NetWeaver 581 Healthcare Product Lifecycle Management 493 Healthcare Service and Asset Management 676 Healthcare Supplier Relationship Management 46 Healthcare Supply Chain Management 135 High Tech & Electronic Business Intelligence 603 High Tech & Électronique Composite Solutions 618 High Tech & Electronic Enterprise Performance Management 125 High Tech & Electronic Governance, Risk and Compliance 79 High Tech & Electronic Integration and Data Management 393 High Tech & Electronic Mobile Solutions 534 High Tech & Electronic On-Demand Solutions 52 High Tech & Electronic Customer Relationship Management 137 High Tech & Electronic ERP 121 High Tech & Electronic Human Capital Management 835 High Tech & Electronic Manufacturing 937 High Tech & Electronic NetWeaver 200 Higher Education & Research Business Intelligence 600 Higher Education & Research Composite Solutions 924 Higher Education & Research Enterprise Performance Management 348 Higher Education & Research Governance, Risk and Compliance 241 Higher Education & Research Integration and Data Management 347 Higher Education & Research On-Demand Solutions 374 Higher Education & Research Mobile Solutions 153 Higher Education & Research Service and Asset Management 917 Higher Education & Research Manufacturing 679 Higher Education & Research NetWeaver 193 Higher Education & Research Product Lifecycle Management 71 Higher Education & Research Service and Asset Management 227 Higher Education & Research Supplier Relationship Management 939 Higher Education & Research Supply Chain Management 936 Industrial Machinery & Components Business Intelligence 749 Industrial Machinery & Components Composite Solutions 7 Industrial Machinery & Components Enterprise Performance Management 185 Industrial Machinery & Components On-Demand Solutions 716 Industrial Machinery & Components Customer Relationship Management 193 Industrial Machinery & Components ERP 744 Industrial Machinery & Components Human Capital Management 976 Industrial Machinery & Components Manufacturing 471 Industrial Machinery & Components NetWeaver 665 Industrial Machinery & Components Product Lifecycle Management 443 Industrial Machinery & Components Service and Asset Management 643 Industrial Machinery & Components Supplier Relationship Management 498 Industrial Machinery & Components Supply Chain Management 610 Insurance Business Intelligence 862 Insurance Composite Solutions 862 Insurance Enterprise Performance Management 646 Insurance Governance, Risk and Compliance 720 Insurance Integration and Data Management 487 Insurance Mobile Solutions 355 Insurance Demand Solutions 803 Insurance Customer Relationship Management 801 Insurance ERP 199 Insurance Human Capital Management 814 Insurance Manufacturing 346 Insurance NetWeaver 30 Insurance Product Lifecycle Management 230 Insurance Service and Asset Management 340 Insurance Supplier Relationship Management 210 Insurance Supply Chain Management 928 Lifescience Business Intelligence 166 Lifescience Composite Solutions 557 Lifescience Governance, Risk and Compliance 277 Lifescience Integration and Data Management 265 Lifescience Mobile Solutions 252 Lifescience On-Demand Solutions 282 Lifescience Customer Relationship Management 282 Lifescience ERP 193 Lifescience Human Capital Management 44 Lifescience Manufacturing 765 Lifescience NetWeaver 888 Lifescience Product Lifecycle Management 582 Logistics & Postal Services Business Intelligence 372 Logistics & Postal Services Composite Solutions 582 Logistics & Postal Services Enterprise Performance Management 232 Logistics & Postal Services Governance, Risk and Compliance 879 Logistics & Postal Services Integration and Data Management 850 Logistics & Postal Services Mobile Solutions 518 Logistics & Postal Services On-Demand Solutions 394 Logistics & Postal Services Customer Relationship Management 712 Logistics & Postal Services ERP 120 Logistics & Postal Services Human Capital Management 262 Logistics & Postal Services Manufacturing 193 Logistics & Postal Services NetWeaver 491 Logistics & Postal Services Product Lifecycle Management 80 Logistics & Postal Services Service and Asset Management 300 Logistics & Postal Services Supplier Relationship Management 158 Logistics & Postal Services Supply Chain Management 28 Media Business Intelligence 737 Media Composite Solutions 683 Media Enterprise Performance Management 633 Media Governance, Risk and Compliance 229 Media Integration and Data Management 288 Media Mobile Solutions 111 Media On-Demand Solutions 579 Media Customer Relationship Management 99 Media ERP 993 Media Human Capital Management 620 Media Manufacturing 364 Media NetWeaver 92 Media Product Lifecycle Management 197 Media Service and Asset Management 233 Media Supplier Relationship Management 409 Media Supply Chain Management 261 Oil & Gas Business Intelligence 789 Oil & Gas Composite Solutions 860 Oil & Gas Enterprise Performance Management 23 Oil & Gas Governance, Risk and Compliance 756 Oil & Gas Integration and Data Management 600 Oil & Gas Mobile Solutions 312 Oil & Gas On-Demand Solutions 152 Oil & Gas Customer Relationship Management 354 Oil & Gas ERP 896 Oil & Gas Human Capital Management 464 Oil & Gas Manufacturing 295 Oil & Gas NetWeaver 336 Oil & Gas Product Lifecycle Management 767 Oil & Gas Service and Asset Management 694 Oil & Gas Supplier Relationship Management 663 Oil & Gas Supply Chain Management 104 Passenger & Cargo Services Business Intelligence 104 Passenger & Cargo Services Composite Solutions 246 Passenger & Cargo Services Governance, Risk and Compliance 874 Passenger & Cargo Services Integration and Data Management 867 Passenger & Cargo Services Mobile Solutions 481 Passenger & Cargo Services On-Demand Solutions 94 Passenger & Cargo Services Customer Relationship Management 874 Passenger & Cargo Services ERP 391 Passenger & Cargo Services Human Capital Management 2 Passenger & Cargo Services Manufacturing 965 Passenger & Cargo Services NetWeaver 922 Passenger & Cargo Services Product Lifecycle Management 922 Passenger & Cargo Services Service and Asset Management 777 Passenger & Cargo Services Supplier Relationship Management 690 Passenger & Cargo Services Supply Chain Management 53 Professional Services Business Intelligence 289 Professional Services Composite Solutions 205 Professional Services Enterprise Performance Management 667 Professional Services Governance, Risk and Compliance 828 Professional Services Integration and Data Management 473 Professional Services Mobile Solutions 50 Professional Services On-Demand Solutions 375 Professional Services Customer Relationship Management 568 Professional Services ERP 761 Professional Services Human Capital Management 521 Professional Services Manufacturing 870 Professional Services NetWeaver 820 Professional Services Product Lifecycle Management 80 Logistics & Postal Services Service and Asset Management 689 Professional Services Supplier Relationship Management 680 Services NetWeaver 491 Logistics & Postal Services Product Lifecycle Management 80 Logistics & Postal Services Supply Chain Management 28 Media Business Intelligence 737 Media Composite Solutions 683 Media Enterprise Performance Management 633 Media Governance, Risk and Compliance 229 Media Integration and Data Management 288 Media Mobile Solutions 111 Media On-Demand Solutions 579 Media Customer Relationship Management 636 Media ERP 993 Media Human Capital Management 620 Media Manufacturing 364 Media NetWeaver 92 Media Product Lifecycle Management 197 Media Service and Asset Management 233 Media Supplier Relationship Management 409 Media Supply Chain Management 261 Oil & Gas Business Intelligence 789 Oil & Gas Composite Solutions 860 Oil & Gas Enterprise Performance Management 23 Oil & Gas Governance, Risk and Compliance 756 Oil & Gas Integration and Data Management 600 Oil & Gas Mobile Solutions 312 Oil & Gas On-Demand Solutions 152 Oil & Gas Customer Relationship Management 354 Oil & Gas ERP 896 Oil & Gas Human Capital Management 464 Oil & Gas Manufacturing 295 Oil & Gas NetWeaver 336 Oil & Gas Product Lifecycle Management 767 Oil & Gas Service and Asset Management 694 Oil & Gas Supplier Relationship Management 663 Oil & Gas Supply Chain Management 310 Passenger & Cargo Services Business Intelligence 104 Passenger & Cargo Services Composite Solutions 246 Passenger & Cargo Services Enterprise Performance Management 99 Passenger & Cargo Services Governance, Risk and Compliance 874 Passenger & Cargo Services Integration and Data Management 867 Passenger & Cargo Services Mobile Solutions 481 Passenger & Cargo Services On-Demand Solutions 94 Passenger & Cargo Services Customer Relationship Management 874 Passenger & Cargo Services ERP 391 Passenger & Cargo Services Human Capital Management 2 Passenger & Cargo Services Manufacturing 965 Passenger & Cargo Services NetWeaver 159 Passenger & Cargo Services Product Lifecycle Management 922 Passenger & Cargo Services Service and Asset Management 777 Passenger & Cargo Services Supplier Relationship Management 690 Passenger & Cargo Services Supply Chain Management 53 Professional Services Business Intelligence 289 Professional Services Composite Solutions 205 Professional Services Enterprise Performance Management 667 Professional Services Governance, Risk and Compliance 828 Professional Services Integration and Data Management 473 Professional Services Mobile Solutions 50 Professional Services On-Demand Solutions 375 Professional Services Customer Relationship Management 568 Professional Services ERP 761 Professional Services Human Capital Management 521 Professional Services Manufacturing 870 Professional Services NetWeaver 820 Professional Services Product Lifecycle Management 101 Professional Services Service and Asset Management 689 Professional Services Supplier Relationship Management 680 Passenger & Cargo Services Supply Chain Management 53 Professional Services

Área	Total em Setembro (R\$)	▼ Acumulado no Ano (R\$)	Detalhamento
TODAS	283.619.101,44	4.193.239.171,16	[Por Mês] [Por Ação]
Encargos Especiais	253.124.403,92	3.219.265.186,20	[Por Mês] [Por Ação]
Saúde	90.520,00	668.179.996,27	[Por Mês] [Por Ação]
Educação	17.070.808,26	80.794.847,83	[Por Mês] [Por Ação]
Saneamento	6.210.282,40	46.382.618,66	[Por Mês] [Por Ação]
Urbanismo	78.910,39	34.323.689,09	[Por Mês] [Por Ação]
Assistência Social	47.614,11	32.526.816,19	[Por Mês] [Por Ação]
Segurança Pública	1.825.748,30	29.889.881,27	[Por Mês] [Por Ação]
Gestão Ambiental	0,00	20.154.421,03	[Por Mês] [Por Ação]



Dado não é nada novo.

Dado é a representação da vida real.

Existem histórias a serem contadas.

2004, 5.5% National Average

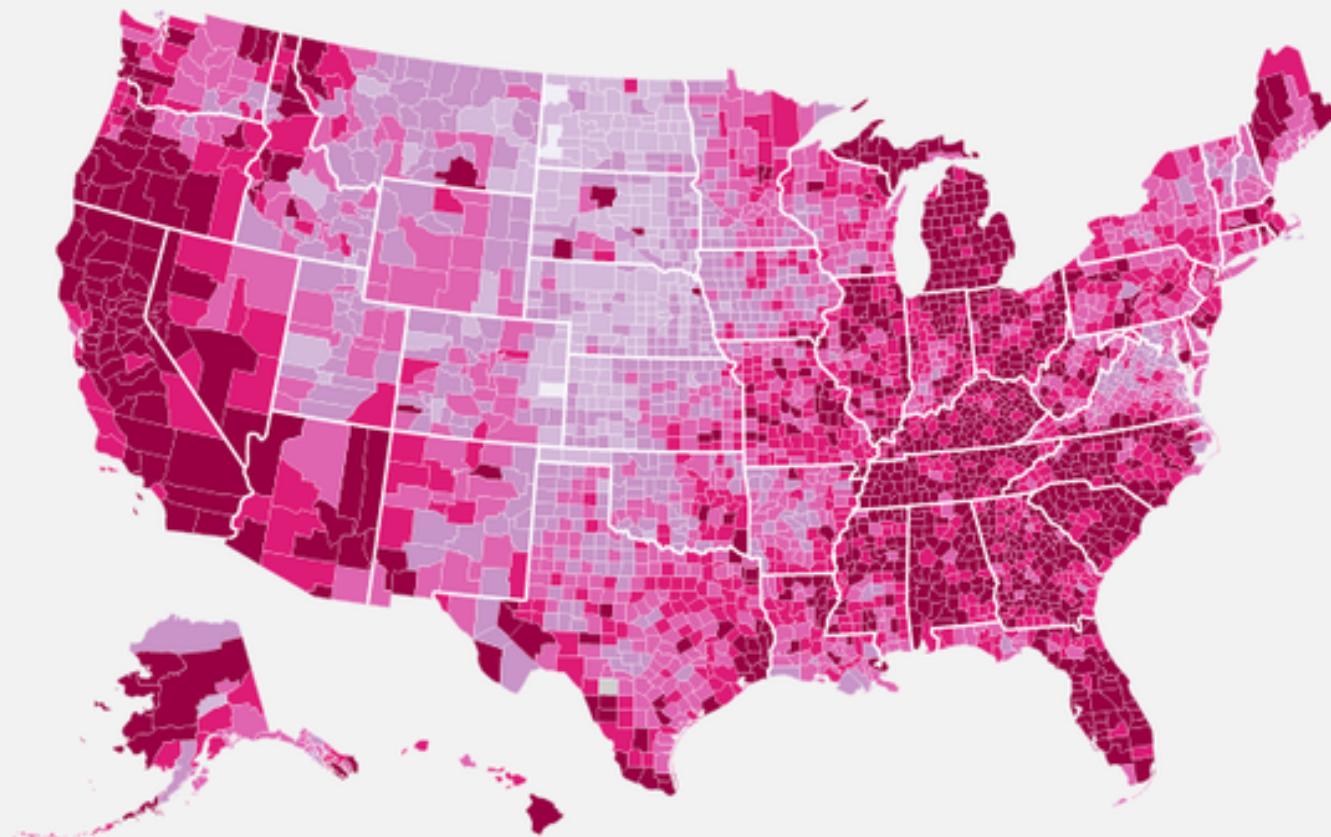
2005, 5.1%

2006, 4.6%

2007, 4.6%

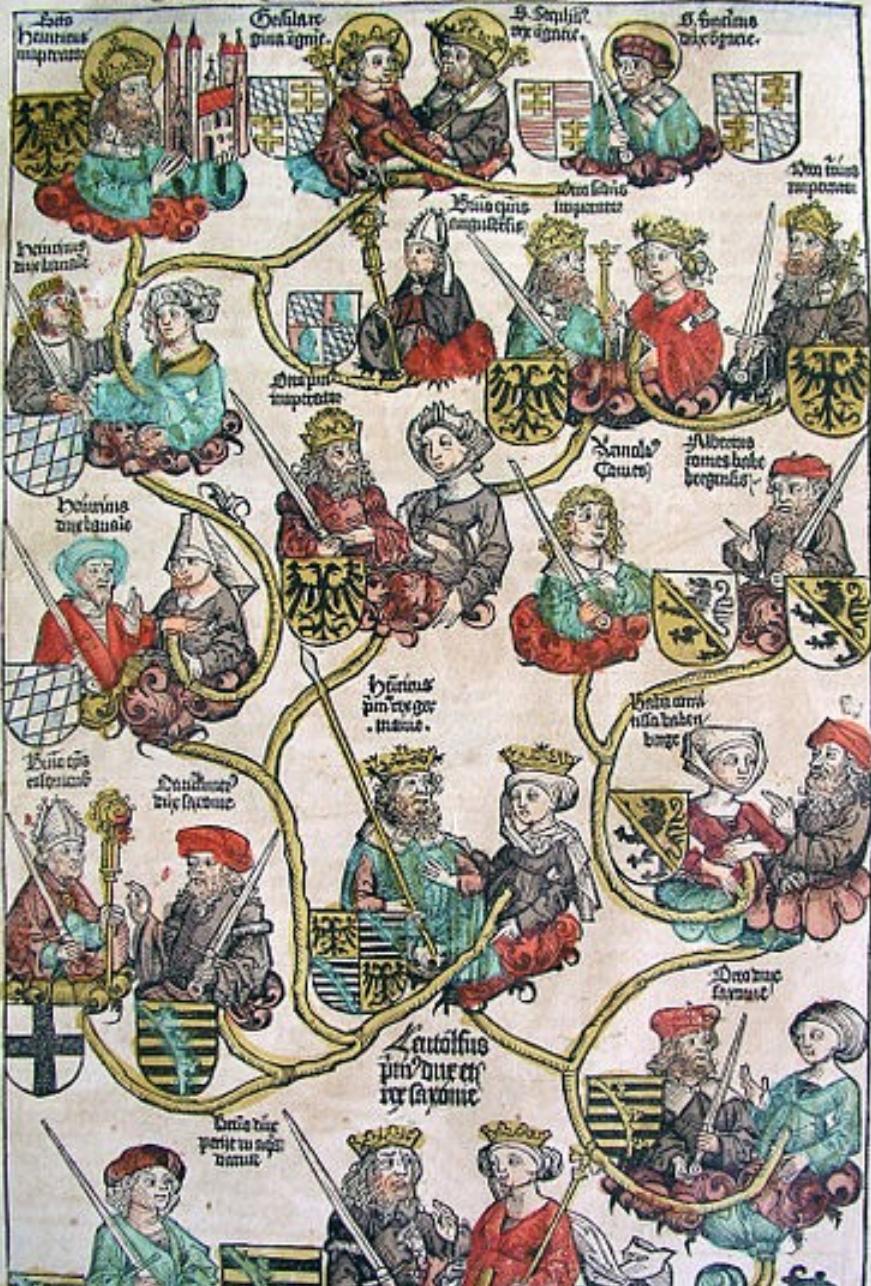
2008, 5.8%

September 2009, 9.8%



Um pouco de história...

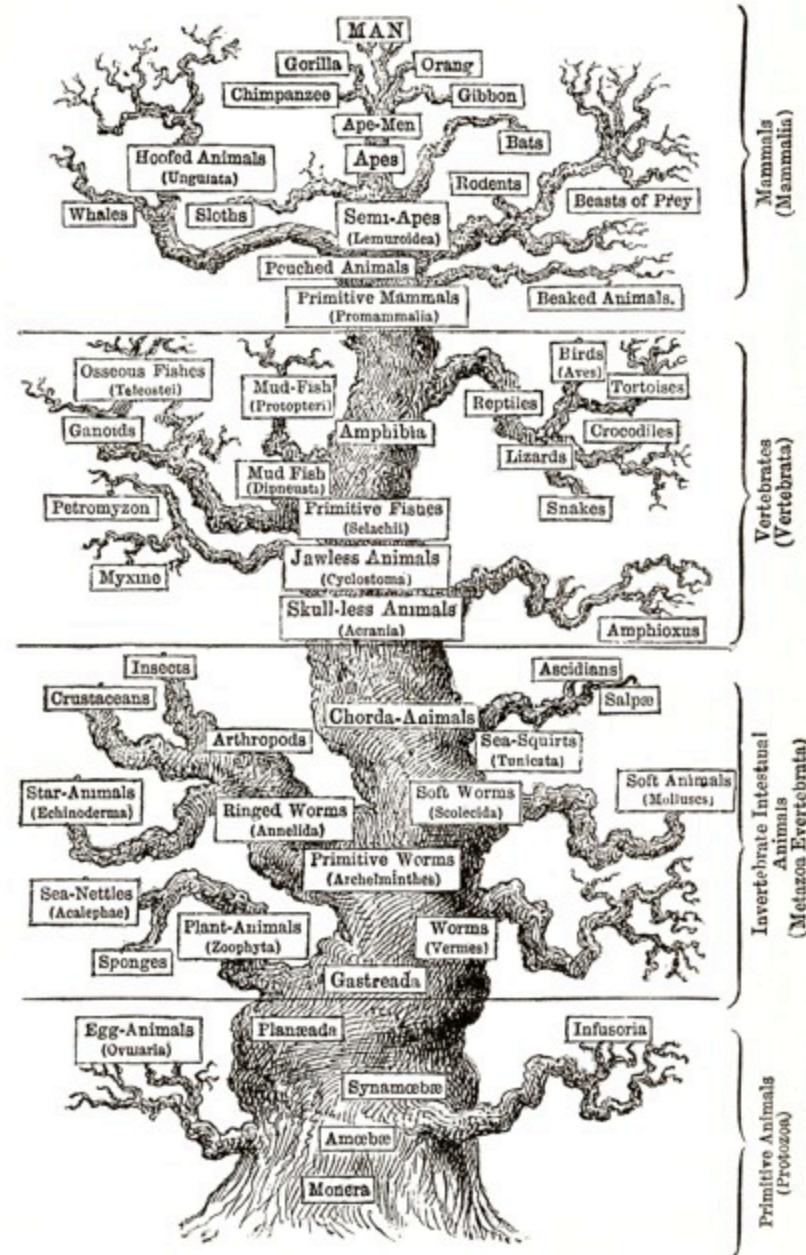
Genealogia divi heinrici imperatoris.



Genealogy of Henry II (973-1024), Nuremberg Chronicle, 1493

HACKEL'S EVOLUTION OF MAN.

PEDIGREE OF MAN.



Ernst Haeckel, Pedigree of Man, 1879

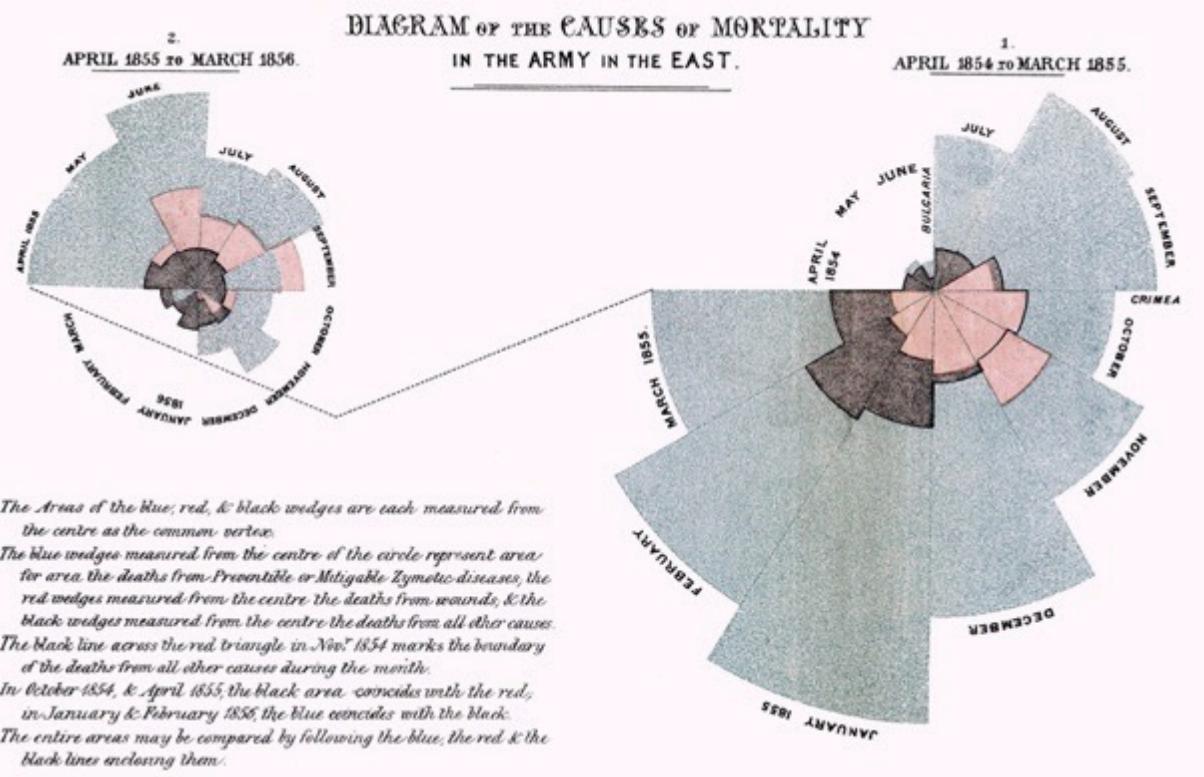


Diagrama de Nightingale de mortalidade dos pacientes nos hospitais de campos militares, 1858.

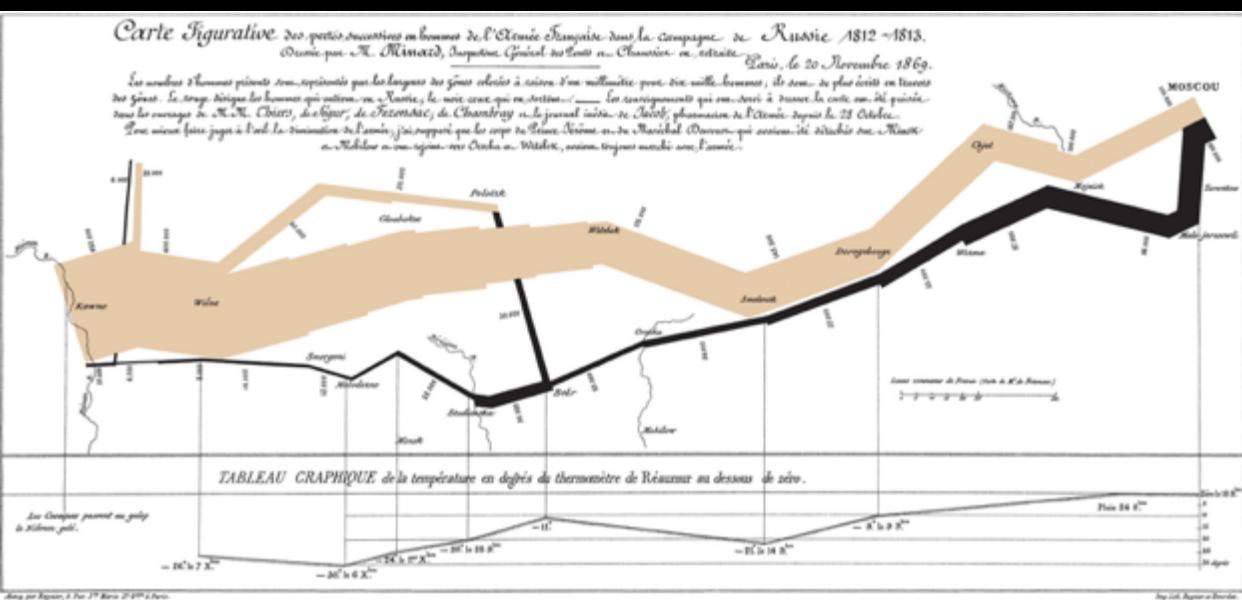


Gráfico de Minard da Marcha de Napoleão para Moscou, 1869. Fonte: <http://pt.wikipedia.org/wiki/Infografia>

E hoje?

"se as pessoas colocam dados na internet - dados do governo, dados científicos - seja qual for, ele será usado por outras pessoas para fazer coisas maravilhosas nas maneiras que eles nunca poderiam ter imaginado."

Tim Berners-Lee, na TED em 02/2010

Google

facebook

twitter

foursquare



PORTAL DA TRANSPARÊNCIA
do Governo Federal

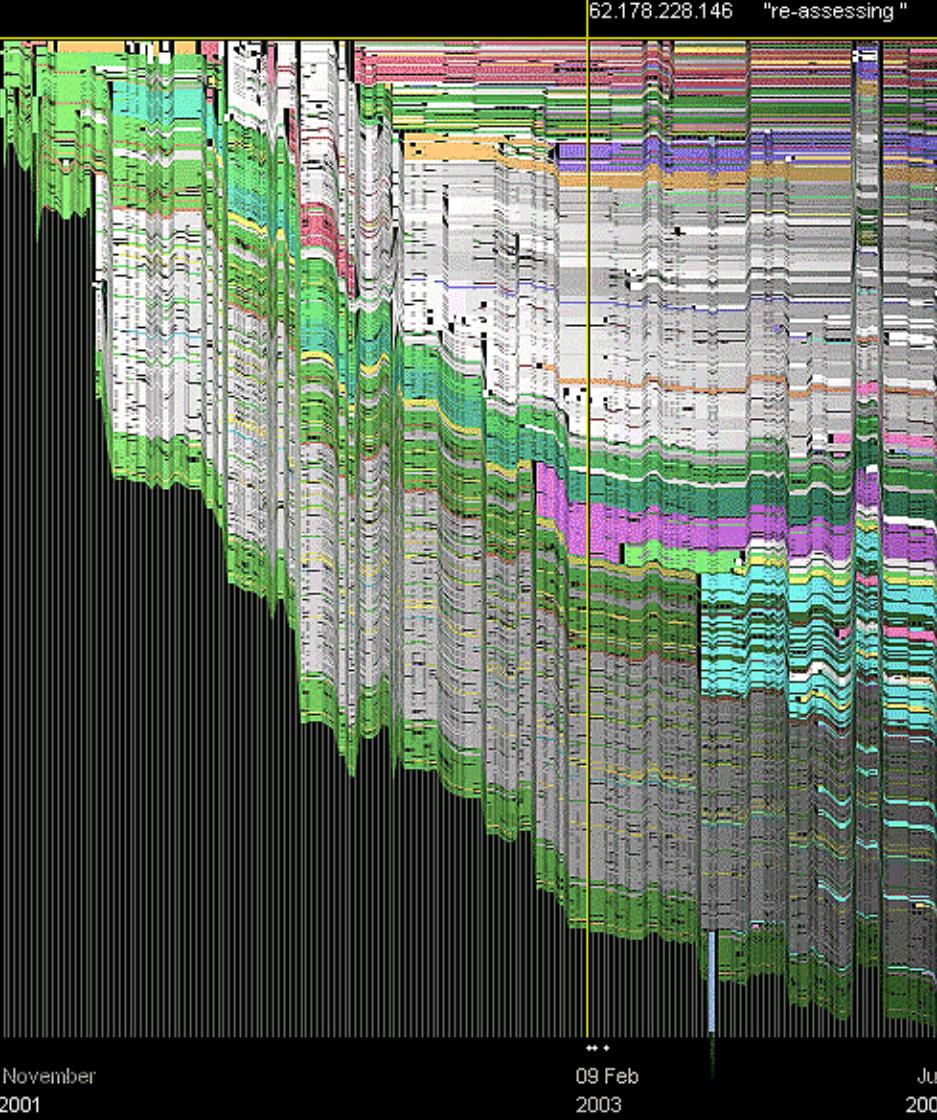
 DATA.GOV
EMPOWERING PEOPLE

O que se pode fazer com isso?

1. Aplicativos online

authors	posts
---------	-------

Jimbo Wales	1
Slrubenstein	22
Ed Poor	3
Conversion script	1
Larry_Sanger	1
Peter Winnberg	1
Zundark	2
Guppie	1
Taw	1
Roadrunner	1
0	1
Brion VIBBER	1
Tarquin	1
Valhalla	1
AxelBoldt	2
TUF-KAT	2
Enchanter	2
Tzartzam	1
Ellmist	1
Derek Ross	1
172	3
Vera Cruz	1
Sam Francis	2
Olivier	1
Docu	1
Liftarn	1
Susan Mason	5
Fubar Obfusco	1
Dietary Fiber	2
LittleDan	1
AdamRaizen	1
Mic	2
Dijnwd	1
JamesReyes	1
Zog	1
Astudent	1
Michael Hardy	3



Capitalism

(Revision as of 06:55, 9 Feb 2003)

Capitalism refers to

a combination of [economic](#) practices that became institutionalized in [Europe](#) between the [16th](#) and [19th](#) centuries, especially involving the formation and trade in ownership of [corporations](#) (see [corporate personhood](#) and [Companies](#)) for buying and selling goods, especially capital goods (including [land](#) and [labor](#)), in a relatively free (meaning, free from [state control](#)) [market](#) competing (and contentious) theories that developed in the 19th century, in the context of the [industrial revolution](#), and [20th century](#), in the context of the [Cold War](#), meant to justify the private ownership of [capital](#), to explain the operation of such markets, and to guide the application or elimination of [government regulation](#) of [property](#) and markets

and beliefs about the advantages of such practices. Capitalism evolved from the [European](#) economic practices which existed before it (see [Feudalism](#), [Imperialism](#), [Mercantilism](#)), and has continued to evolve. Capitalism is widely considered to be the dominant economic system in the world. Depending on how one defines "capitalism", there is continuing debate over the nature and scope of its global influence.

Table of contents

- [1 Capitalism as an economic system](#)
- [2 Characteristics of Capitalist Economies](#)
- [3 Criticisms of Capitalism](#)
- [4 Capitalism and Imperialism](#)
- [5 Capitalism as an ideology](#)
- [5.1 Capitalism and political ideologies](#)
- [6 Arguments for and against capitalism](#)
- [7 Why does no one agree what capitalism is?](#)
- [8 In whose interest is capitalism ?](#)
- [9 What is capitalism good for?](#)
- [10 See also](#)

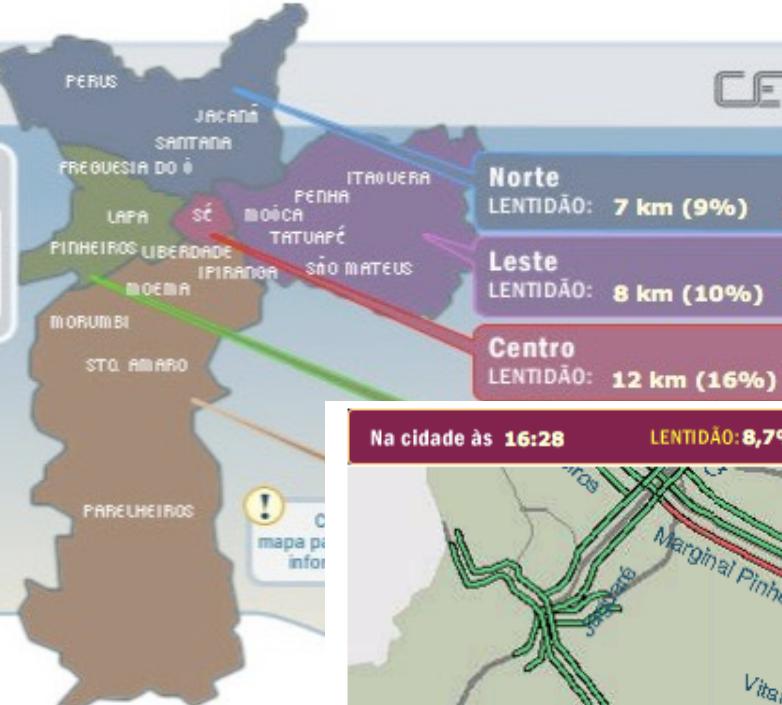
History Flow (2003), Fernanda Viégas e Martin Wattenberg

transito agora

16h28m

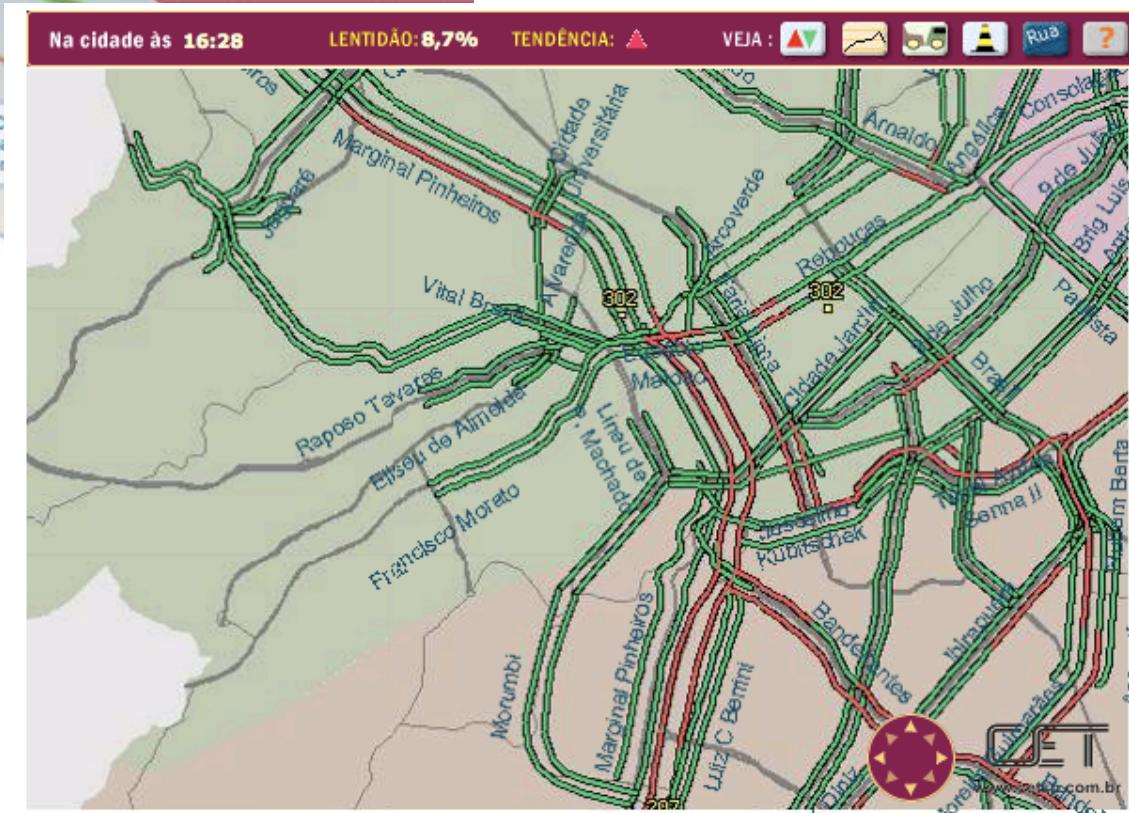
76 km ou 8,7 % dos
868 km monitorados no
momento apresentam
lentidão.

TENDÊNCIA



CET
Companhia de
Engenharia de Tráfego

São Paulo, SP, Brasil
www.cetsp.com.br



Trânsito agora (2008), CET-SP.



All years

2003

2004

2005

2006

2007

2008

2009

2010

2011

Zoom to address or ZIP

Go

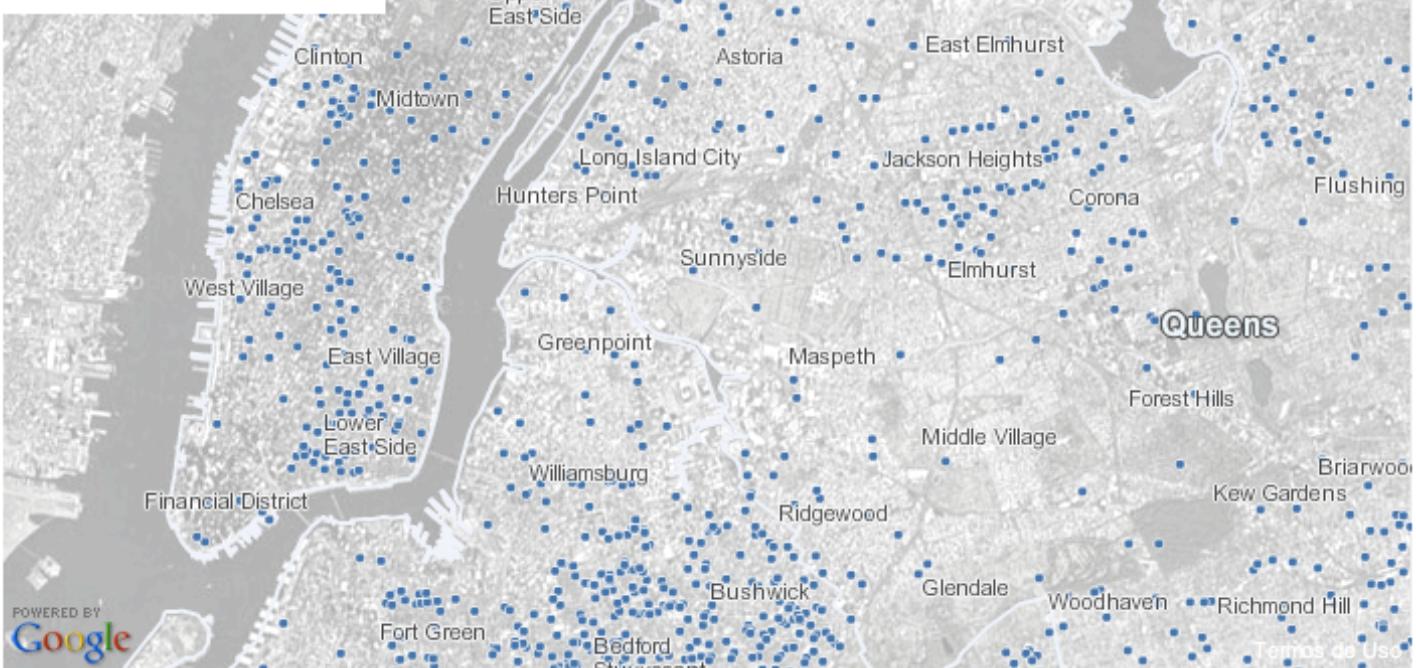
Homicides
2003-2011

4,161

Average homicides per year: 494

All homicides[Month and time of day](#)[Race/ethnicity of victim](#)[Race/ethnicity of perpetrator](#)[Sex of victim](#)[Sex of perpetrator](#)[Age of victim](#)[Age of perpetrator](#)[Weapon used](#)[Borough](#)**HOMICIDES IN EACH YEAR**

2011	209
'10	329
'09	386
'08	518
'07	478
'06	562
'05	534
'04	548
'03	597



Murder: New York City (2011), The New York Times

USA

SEARCH

TABLE

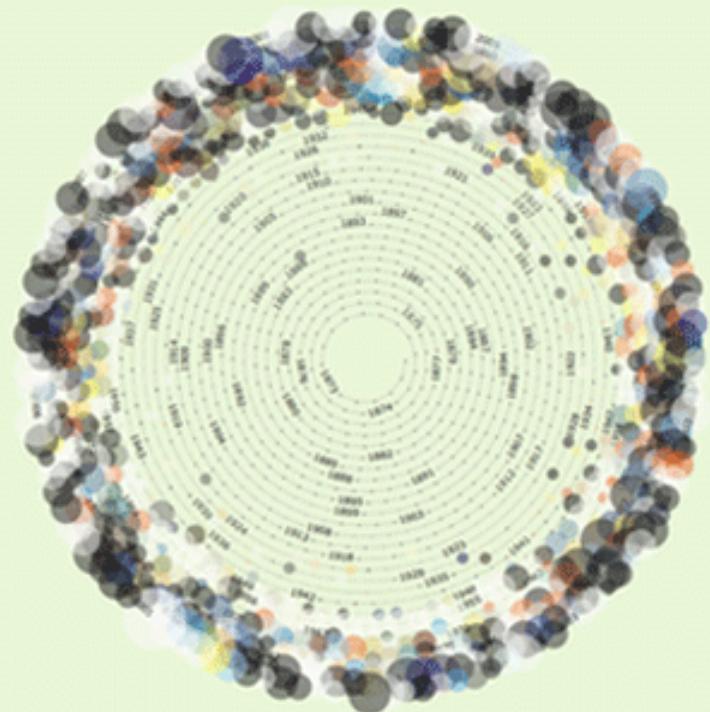
ANIMATED

BRAZIL

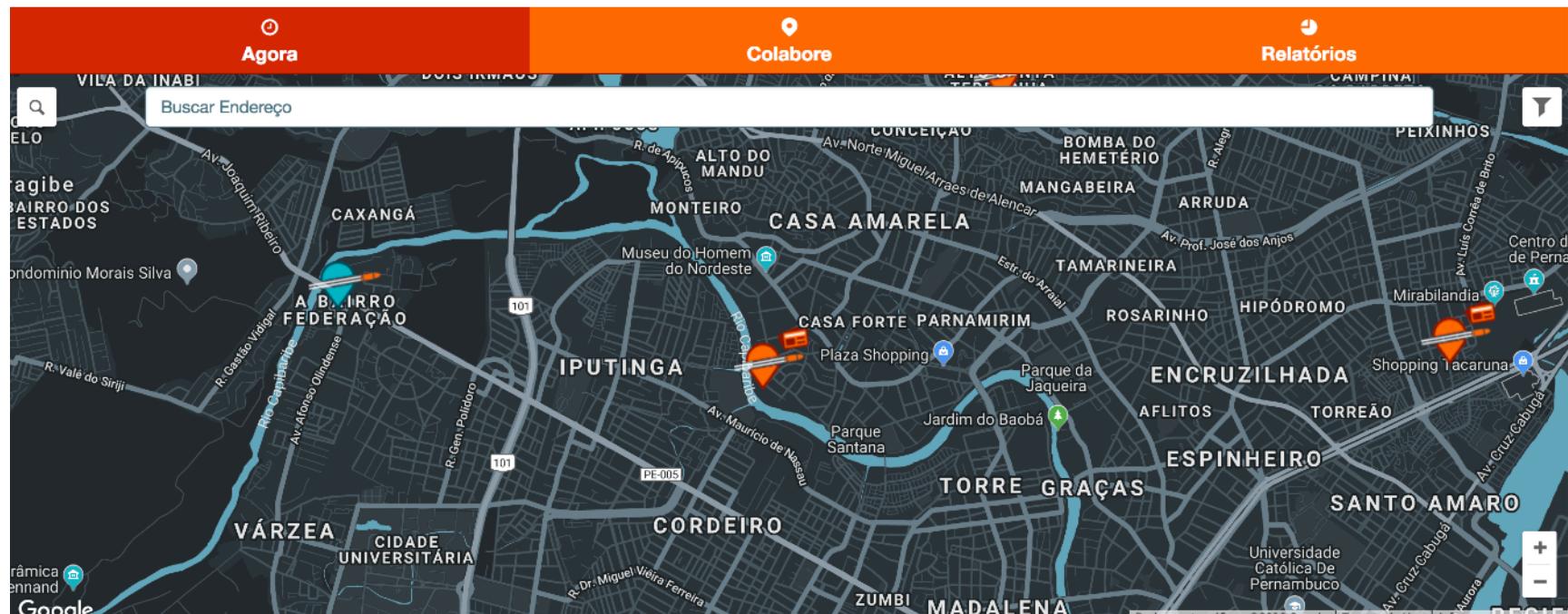
SEARCH

TABLE

ANIMATED

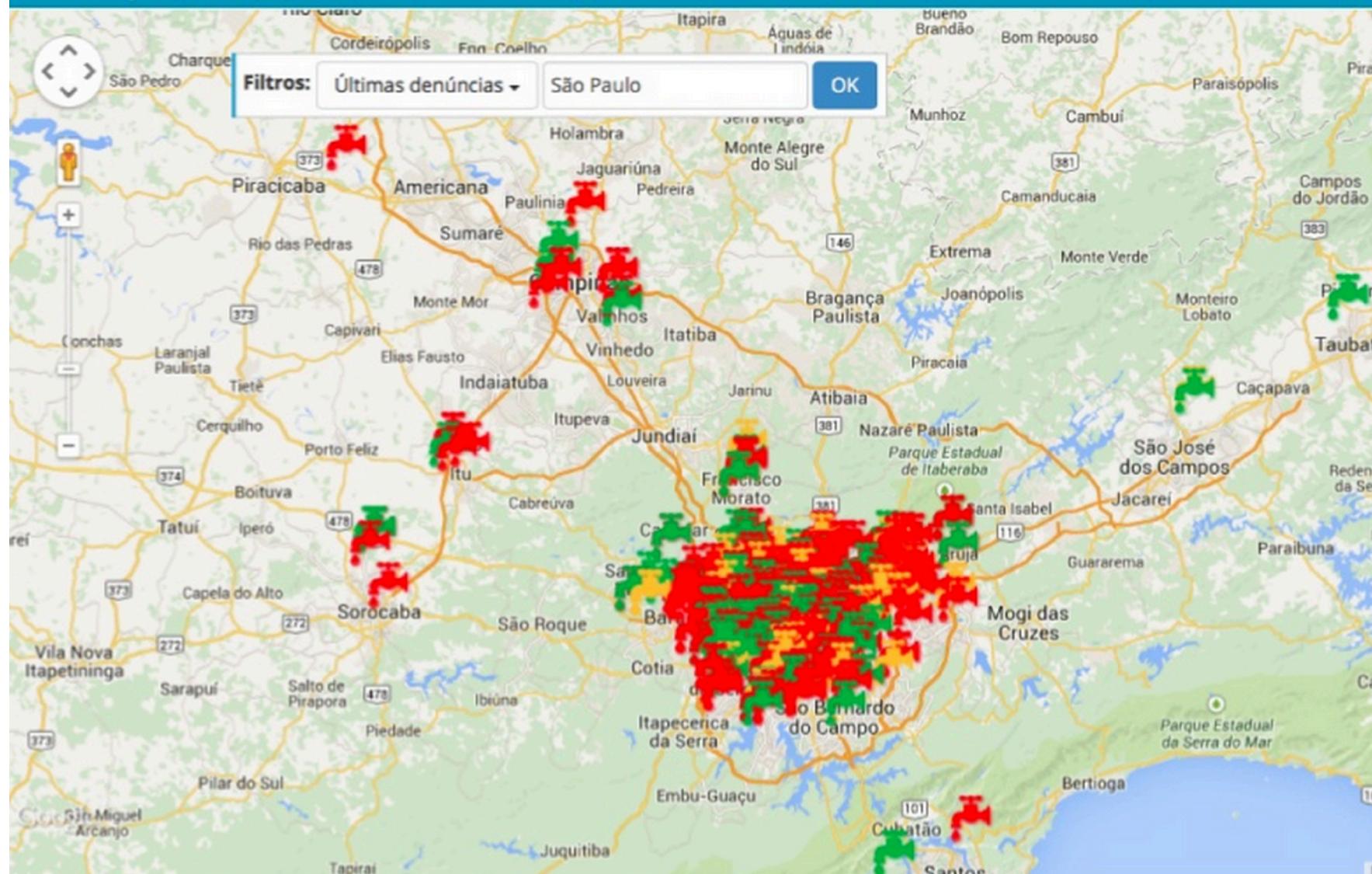


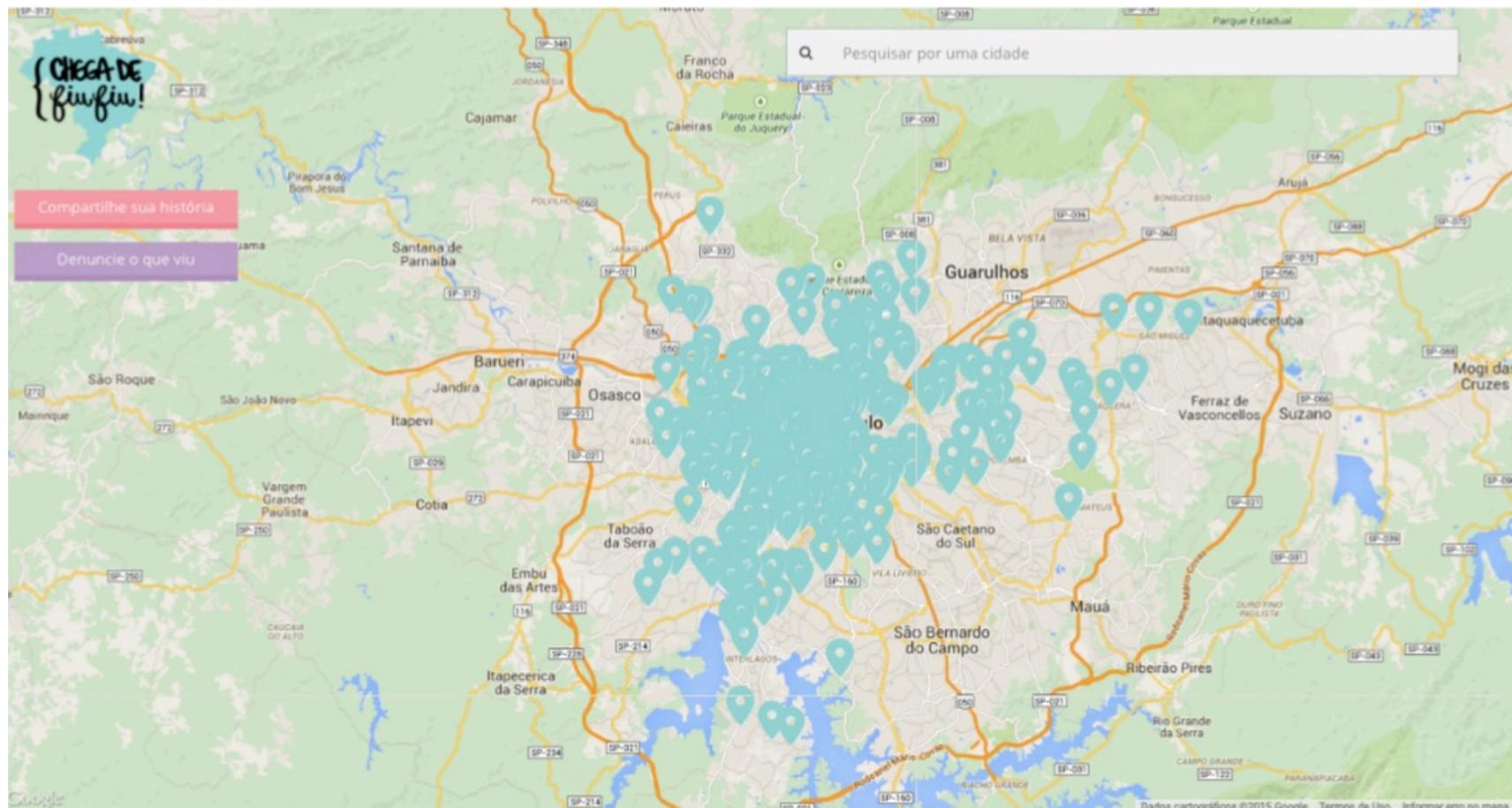
**Word Reference 1873-2011 (2011), Popular Science
Magazine | popsci.com**





ESTOU SEM
ÁGUA :-)





OLGA

[Sobre](#) | [Campanha](#) | [Dados](#) | [Contato](#)

Dados cartográficos ©2015 Google | [Termos de Uso](#) | [Informar erro no mapa](#)



2. Aplicativos multimídia

vídeo

<http://vimeo.com/21553632>

Last Clock (2002), Jussi Ängeslevä e Ross Cooper



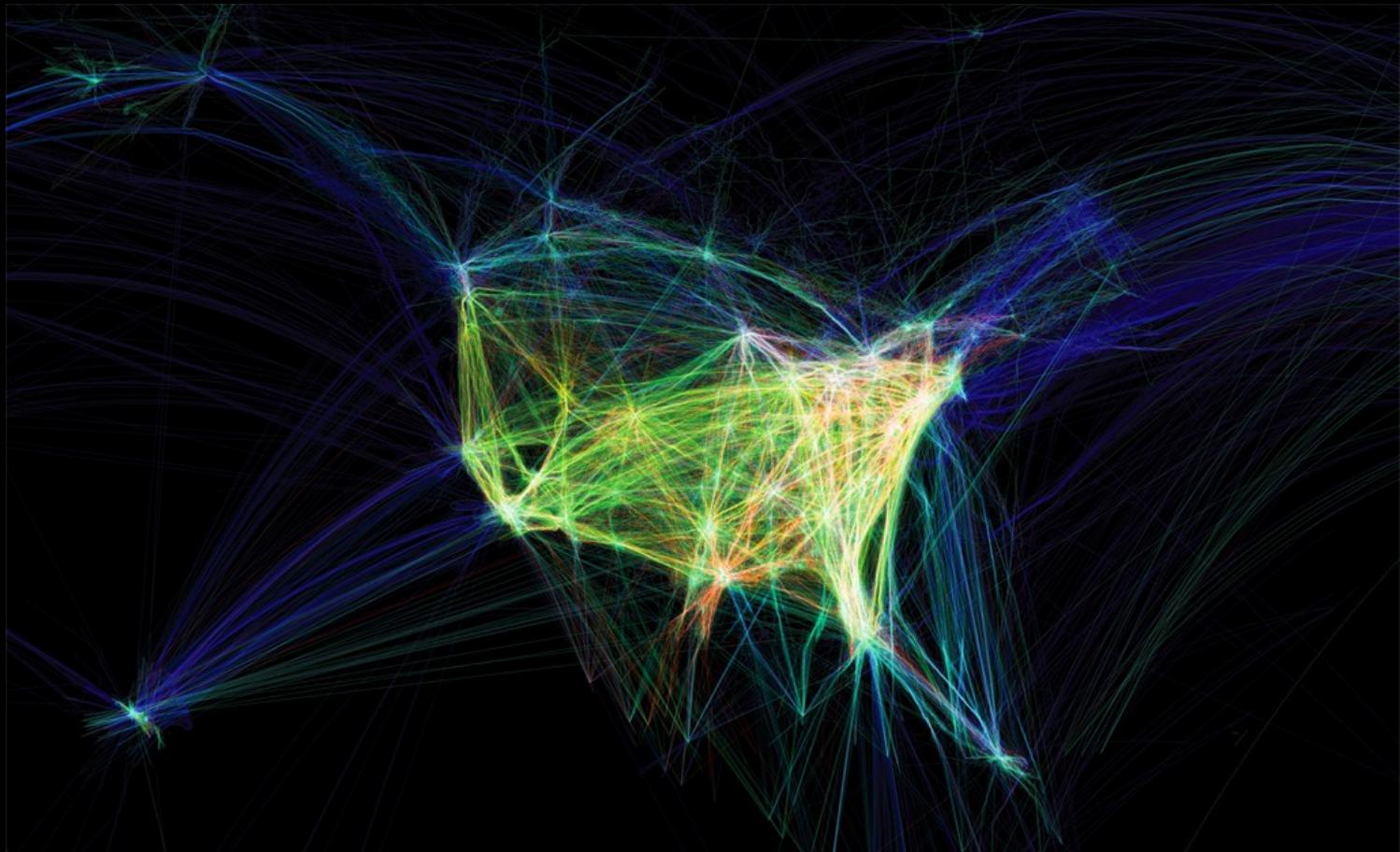
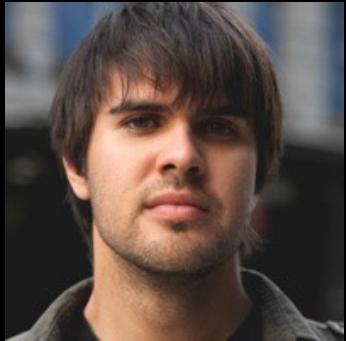
Heatsink (2005), Bonanni. DataFountain (2004), van Mensvoort.

vídeo

<http://intheair.es/tools/physical-prototype-video.html>

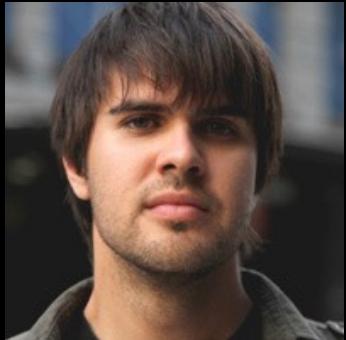
In the air (2008), Medialab Prado

Aaron Koblin



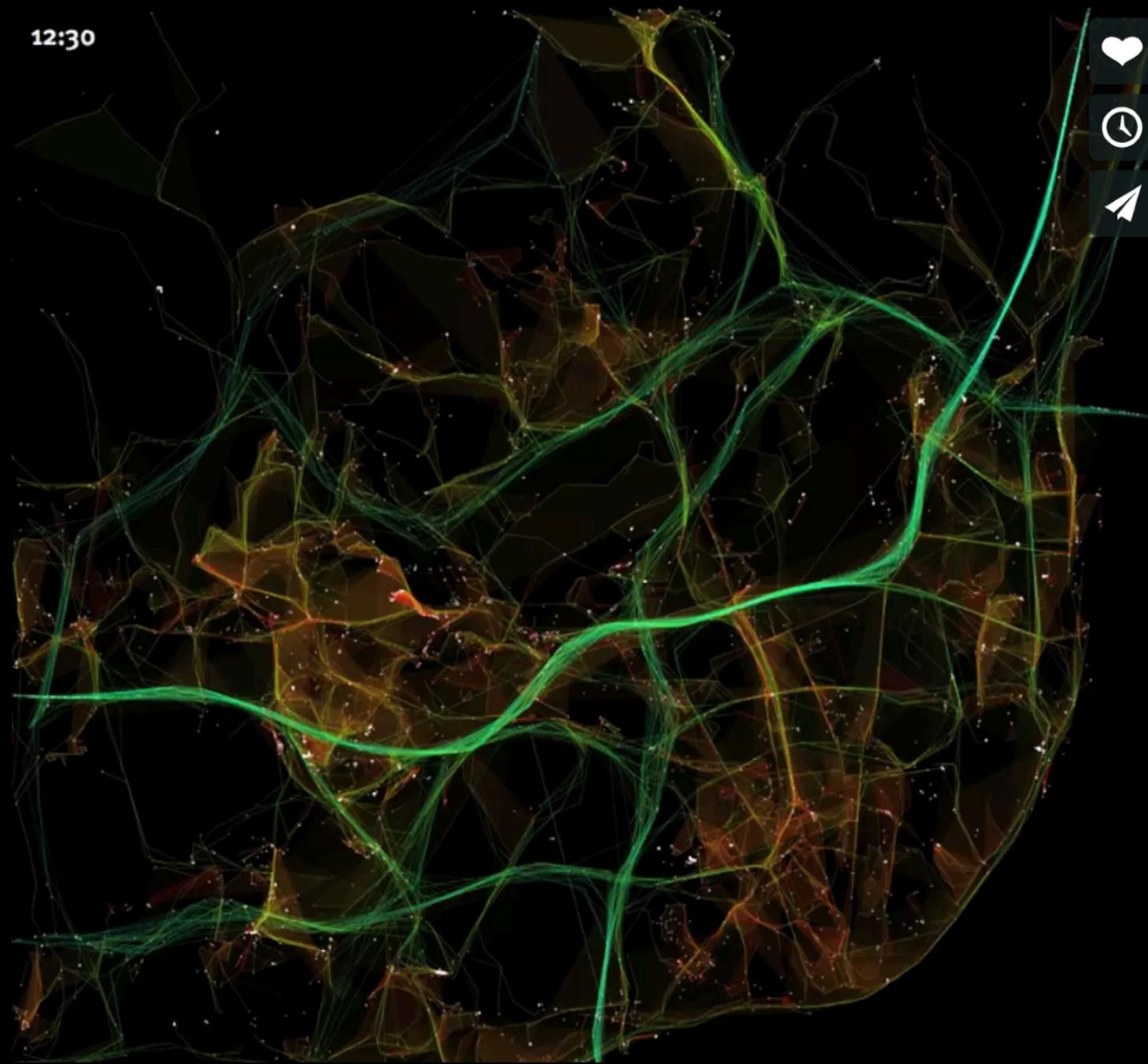
Flight patterns

Aaron Koblin



Flight patterns

12:30



Lisbon traffic

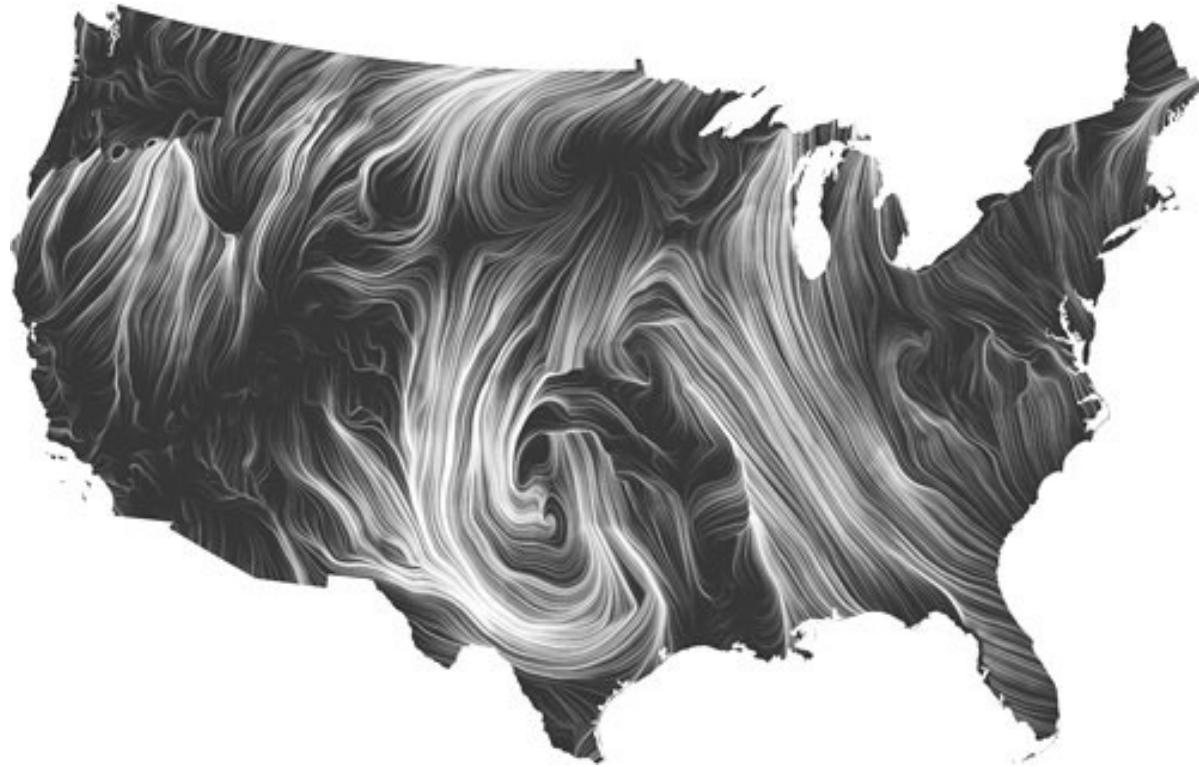


Lisbon's slow traffic areas

Each trail constitutes a temporary route where the average speed is mapped to its color. Pure green represents average speeds of 60 km/h. Cooler and greenish hues traduce rapid transit arteries, while the sluggish ones are reddish and hotter. There is a visual emphasis on the slower areas, with hot colors traducing sluggish traffic.

Lisbon traffic

Fernanda Viegas e Martin Watterberg



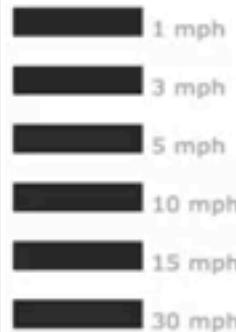
Windmap (2012)

Fernanda Viegas e Martin Watterberg

wind map

March 28, 2012
at 6:00 pm

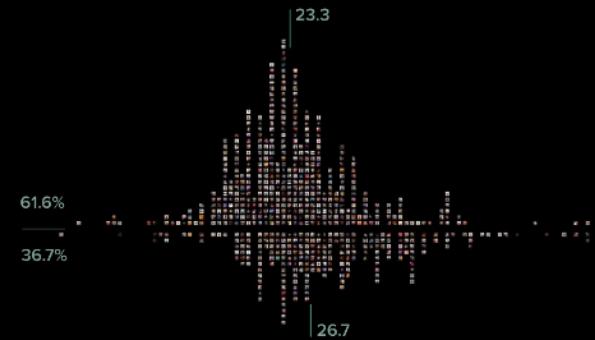
top speed: 30.4 mph
average: 9.4 mph



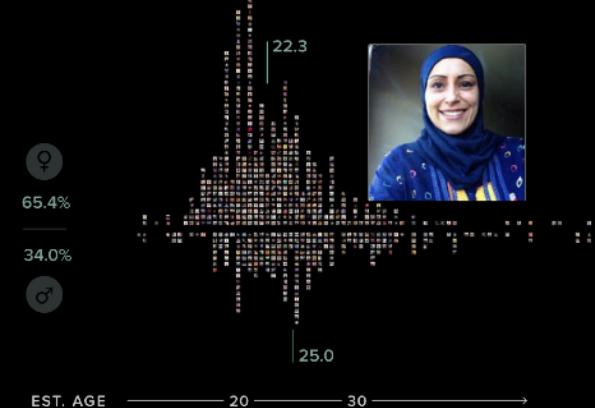
Lev Manovich + Moritz Stefaner



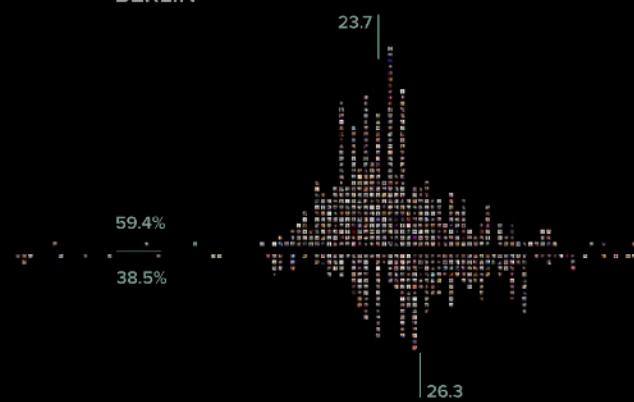
NEW YORK



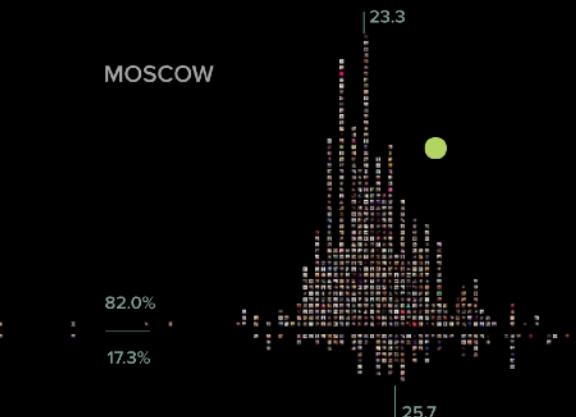
SAO PAULO



BERLIN



MOSCOW



Lev Manovich + Moritz Stefaner

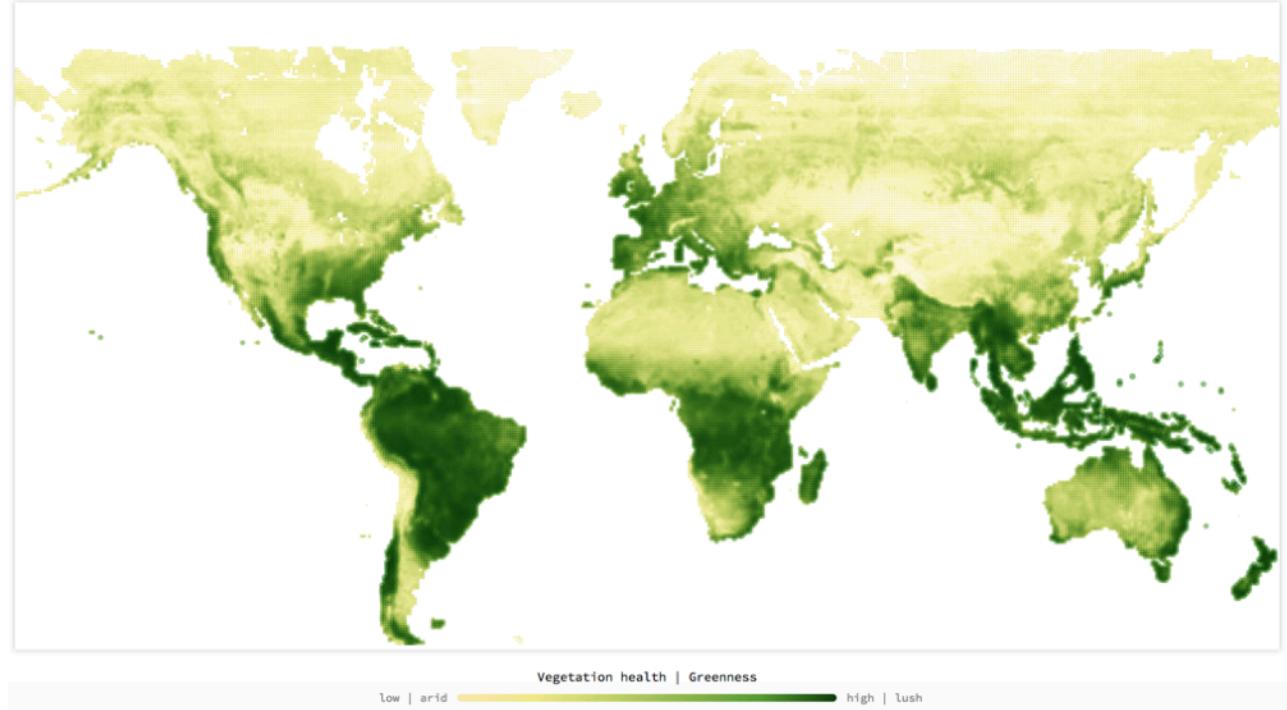
SELFIECITY

*Exploring the cultural meaning
of the selfie*

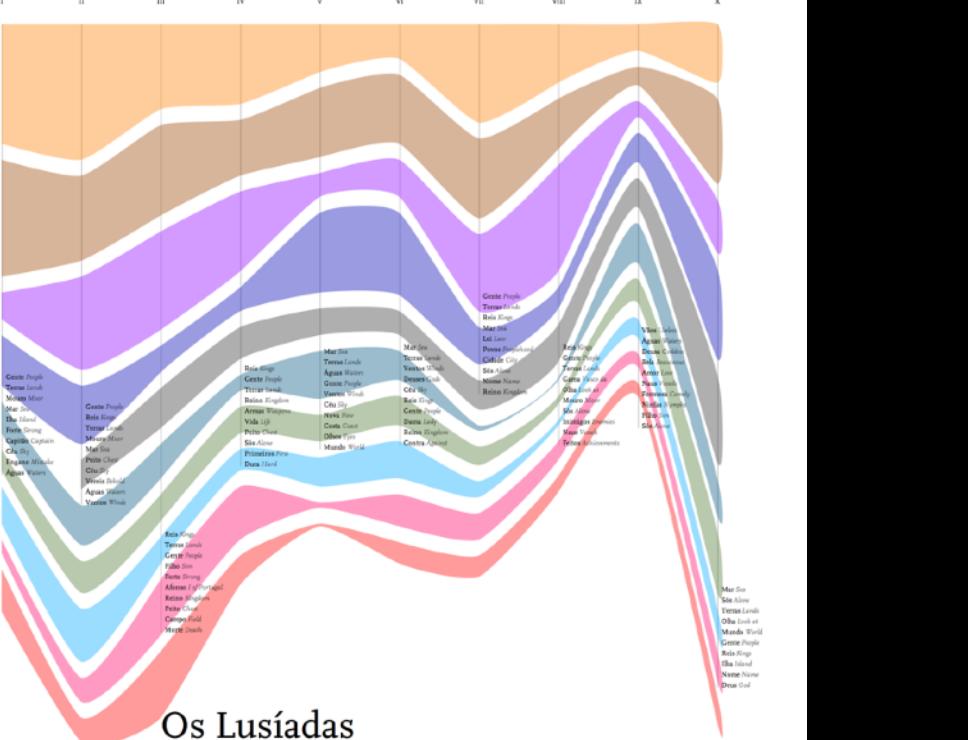
Nadieh Bremer



Week 3, January, 2016 | missing data in the North



3. Projetos impressos



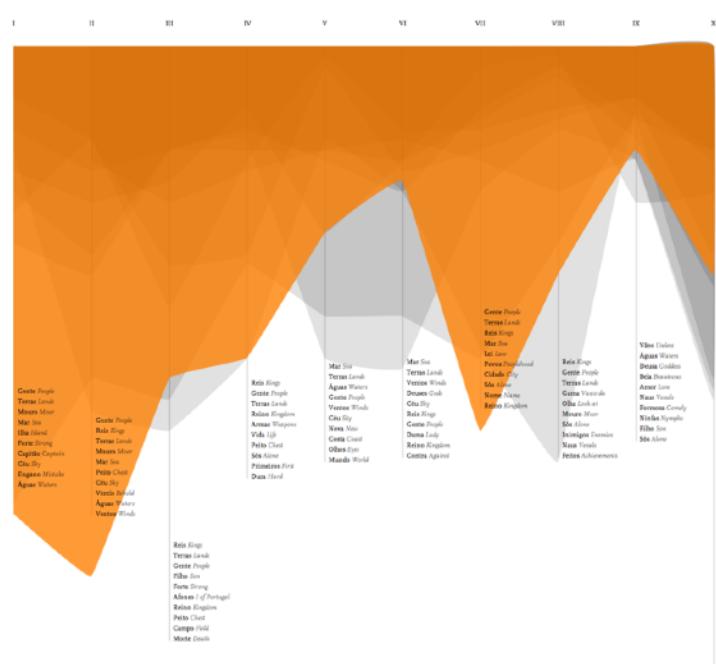
Os Lusíadas *Ten words*

Gentz People
Terras Land
Rein King
Mar Sea
Sea Alone
Águas Waters
Mundo World
Cíu Sky
Reisso England
Forte Strong

Os Lundas é uma epopeia portuguesa de Luís Vaz de Camões publicada pela primeira vez em 1572. A obra é escrita por dez cantos e nove partes. A enredo é feito das dez palavras mais frequentes na língua por ordem decrescente de ocorrências. Foi feita por ordem das dez palavras. Em cima está uma ás que representa diretamente a frequência de cada palavra em cada canto. A cada canto corresponde uma lista das palavras mais frequentes nesse canto ordenadas por número decrescente de ocorrências. O comprimento das linhas verticais para cada canto representa a extensão em «fármulas de versos».

Lusíadas is a Portuguese epic poem by Luis Vaz de Camões first printed in 1572. The poem consists of ten cantos and 1013 stanzas. The left are the ten most frequent words in the poem by descending order of occurrence. A pie chart shows these ten words. One is an area that directly represents the frequency of each word in each canto. On each axis there is a corresponding list of the ten most frequent words in that canto sorted by descending order of occurrence. The length of the vertical lines for each canto represents its extension in number of verses.

Experiment by Pedro M. Costa at DCE/UFRJ. <http://impressario.ufrj.br/comboether>



Os Lusíadas *Gente People*

I GENE Prop
Tomas Larr
Raúl Górg
Marisa
Sis Alonso
Águas Wil
Mundo W
Celia Sily
Raúl Górg
Estela Górg

Experiment by Pedro M. Cruz at DEU/TIBA, <http://www.cedgaisinba.com/matrix>

Os Lusíadas (2010), Pedro Miguel Cruz

MAPPING THE ARCHIVE: PRIX ARS ELECTRONICA



X by Y (2009), Dietmar Offenhuber e Moritz Stefaner

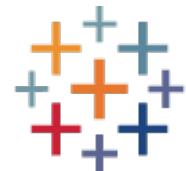
Que ferramentas usam?



Google Data Studio



React



+ a b | e a u®



chart**blocks**



CARTÓDB
Geospatial database on the cloud

RAW**Graphs**

Onde posso encontrar informações?



visual
mente

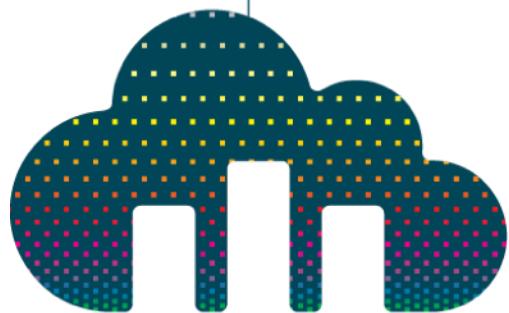
**DATA
STORIES**

 **visually**

visual
complexity

 **FLOWINGDATA**

Mas isso é impossível de
fazer...



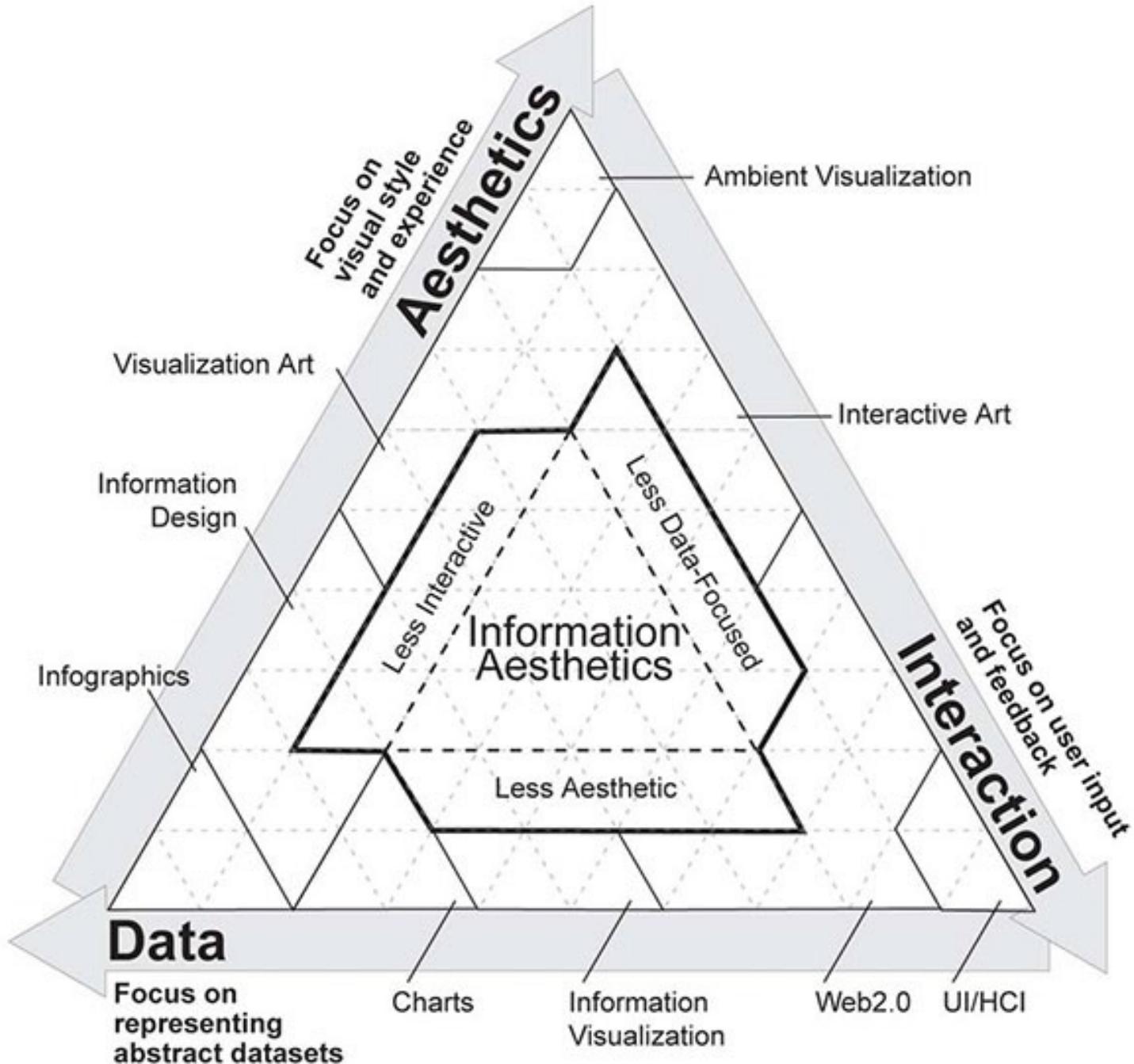
WARNING

Real Time Global Air
Quality Display

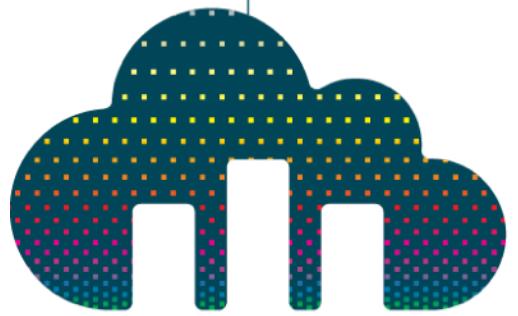
Não... não é!

O projeto “Warning – Real Time Global Air Quality Display” é uma **instalação** que recebe dados da internet a respeito da **qualidade do ar** de 30 cidades em 5 continentes. A instalação representa estes dados numa **tela** e numa **estrutura física** através de um sistema de iluminação (LEDs) situada num **espaço público**.

WARNING - real time global air quality display



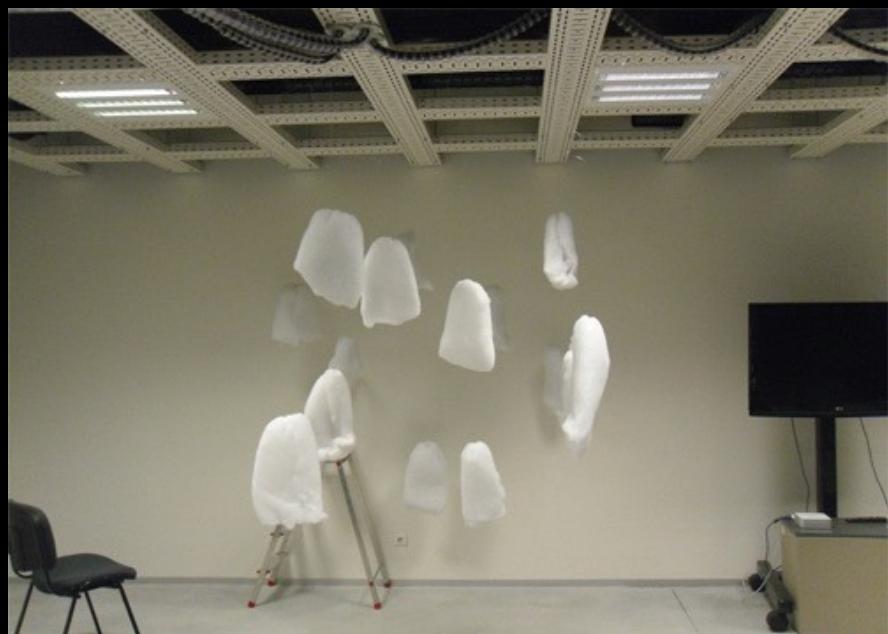
Modelo para a *information aesthetics* de Lau e Vande Moere (2007).

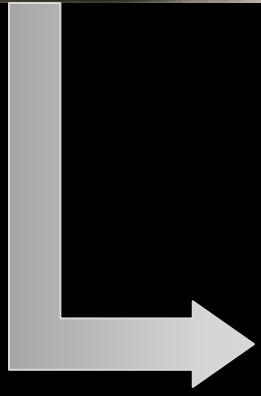
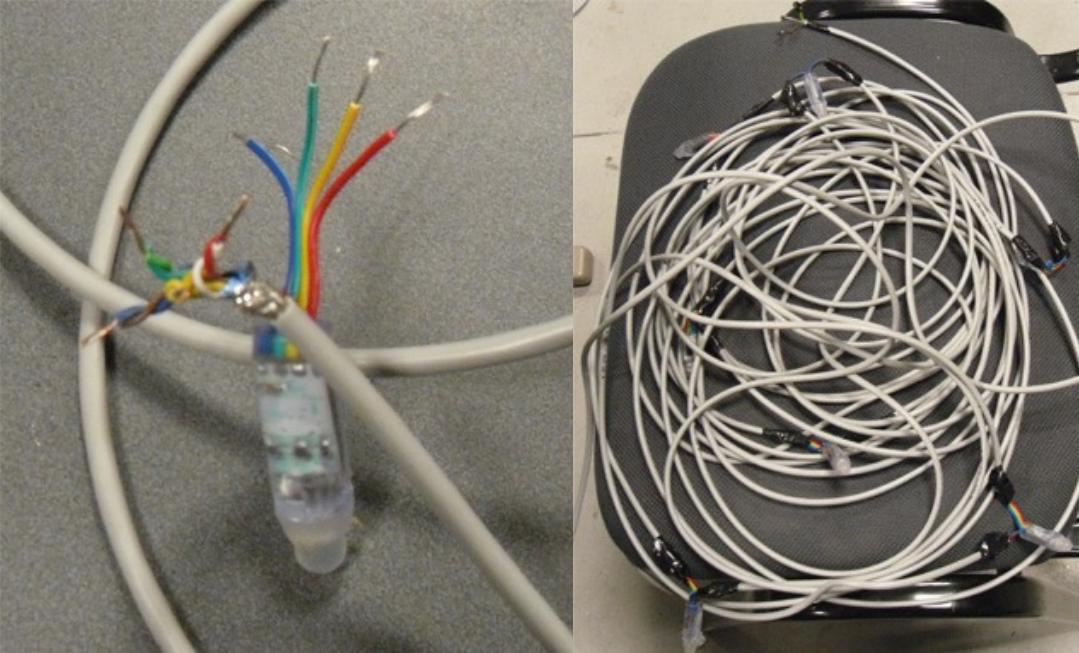


WARNING

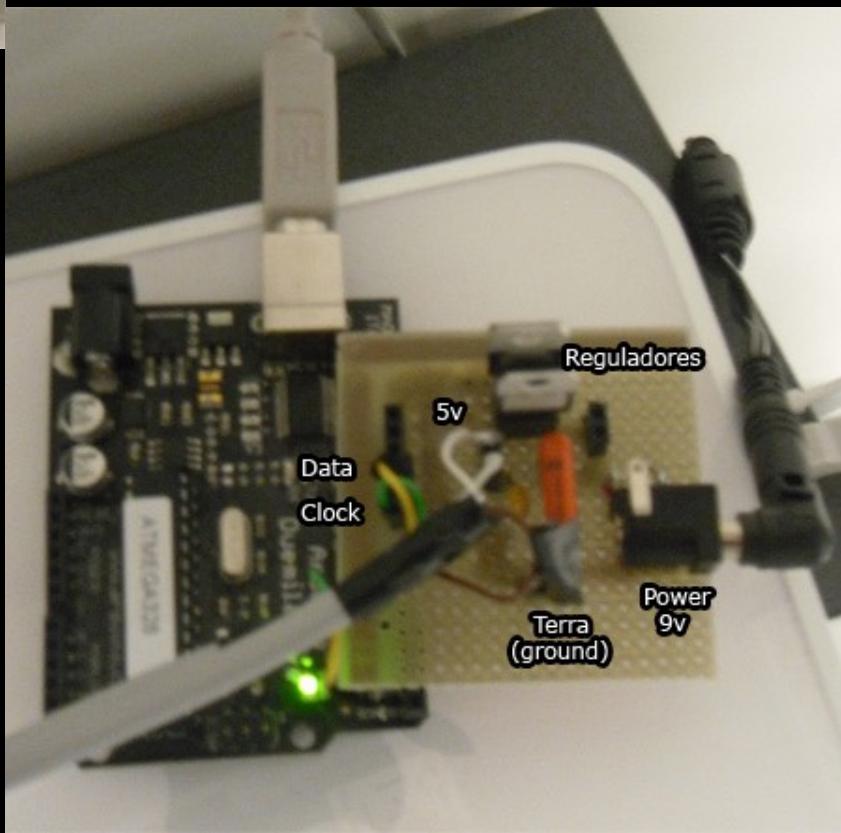
Real Time Global Air Quality Display

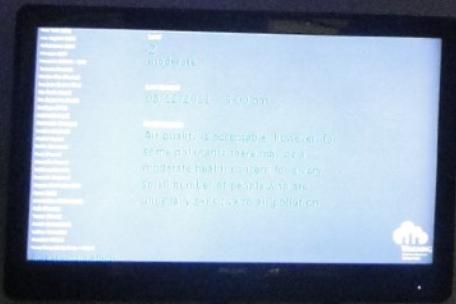
Índice do projeto Warning	1 Very good (muito bom)	2 Good (Bom)	3 Moderate (Moderado)	4 Unhealthy for Sensitive Groups (Inadequado)	5 Unhealthy (Ruim)	6 Unhealthy (Muito Ruim)	7 Hazardous (Critico)
Cidade, País ou Continente *							
Cidade do Mexico		0 a 50 Buena	51 a 100 Regular		101 a 150 Mala	151 a 200 Muy mala	+200 Extremamente Mala
Durban		Low	Moderate		High	Very High	
EUA (Chicago, Honolulu, Los Angeles, New York, Philadelphia)		0 - 50 Good	51 - 100 Moderate	101- 150 Unhealthy for Sensitive Groups	151 - 200 Unhealthy	201-300 Very Unhealthy	301 - 500 Hazardous
Europa (Amsterdam, Berlin, Brussels, London, Madrid, Marseille, Oslo, Paris, Prague, Rome, Salzburg, Tczew, Zurich)	0-25 Very Low	26 – 50 Low	51 -75 Medium		76 – 100 High	+100 Very High	
Hong Kong		0 – 25 Low	26 – 50 medium		51- 100 - high	101-200 – very high	201 – 500 - severe
Portugal (Lisboa e Guimarães)	muito bom	bom	médio	fraco	mau		
Rio de Janeiro		0 – 50 boa	51 – 100 regular	101 – 200 inadequado	201 – 300 má	301 – 400 péssimo	+400 critica
San Juan		0 – 50 Bueno	51-100 Moderado	101-150 Insalubre a grupos sensitivos	151-200 Insalubre	201-300 Bien Insalubre	301 ó más Peligroso
Santiago		0-100 Bueno	101 – 200 Regular		201 -300 Malo	301 – 400 Critico	401 -500 Peligroso
São Paulo		0 – 50 boa	51 – 100 regular	101 – 199 inadequado	200 – 299 má	+299 péssimo	
Shanghai		0 – 25 Low	26 – 50 medium		51- 100 high	101-200 very high	201 – 500 severe
Sydney	0 – 33 very good	34 - 66 good	67 - 99 fair		100 - 149 poor	150 - 199 very poor	+200 hazardous
Toronto	0 – 15 very good	16-31 good	32-49 moderate		50-99 poor	+100 very poor	

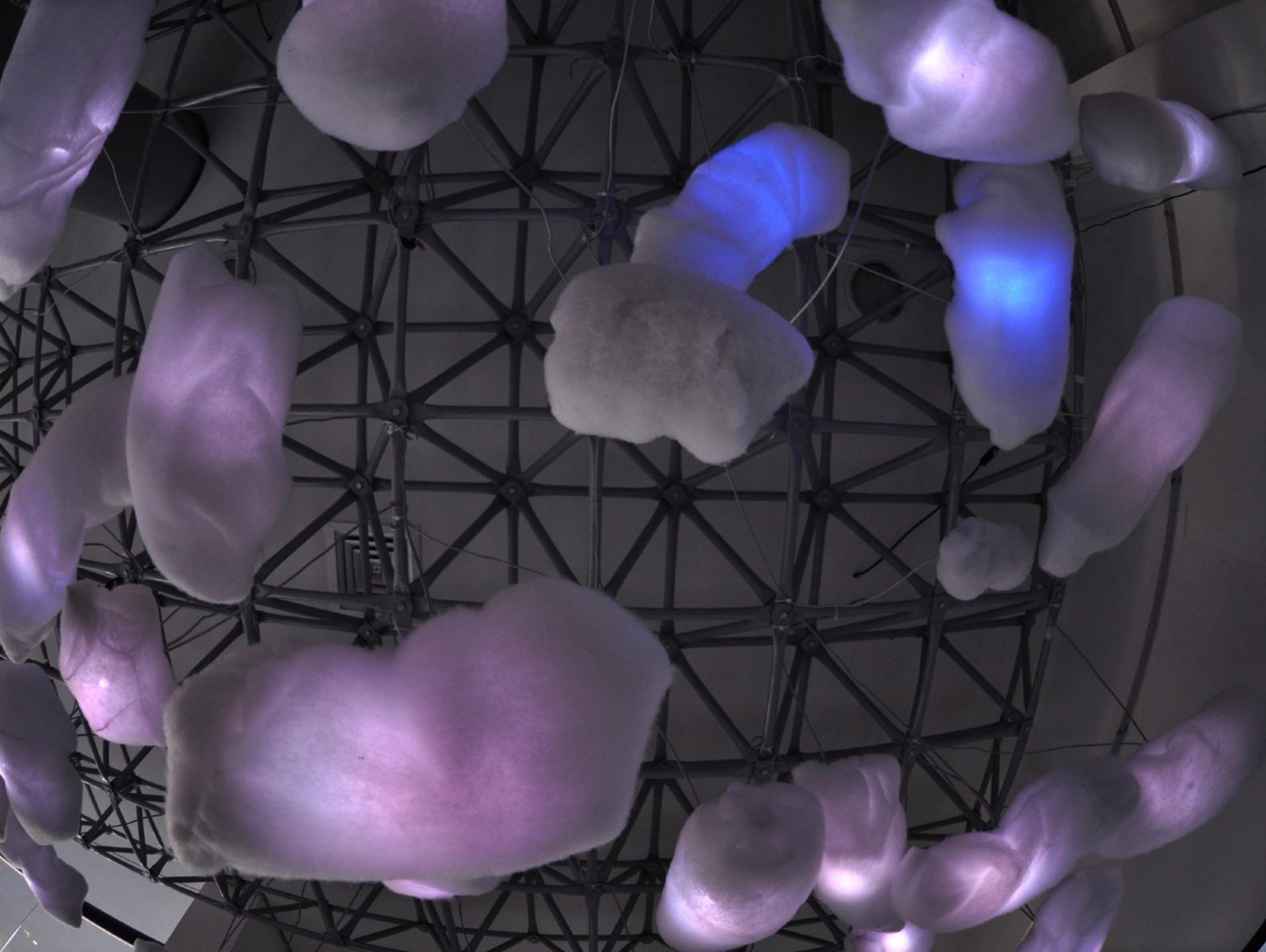




Transformação a base de
muita gambiarra, DIY e fios
perdidos.

















New York (USA)
Los Angeles (USA)
Philadelphia (USA)
Chicago (USA)
Honolulu (HAWAII - USA)
Toronto (Canada)
Mexico City (Mexico)
San Juan (Puerto Rico)
São Paulo (Brazil)
Rio de Janeiro (Brazil)
Santiago (Chile)
Lisbon (Portugal)
Guimarães (Portugal)
London (England)
Madrid (Spain)
Berlin (Germany)
Paris (France)
Marseille (France)
Salzburg (Austria)
Brussels (Belgium)
Prague (Czech Republic)
Rome (Italy)
Amsterdam (Netherlands)
Oslo (Norway)
Tczew (Poland)
Zurich (Switzerland)
Sydney (Australia)
Shanghai (China)
Hong Kong (Hong Kong - China)
Durban (South Africa)

Level
5
unhealthy

Last Update
28/03/2011 04:00 pm

Health impacts
Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.



New York (USA) Los Angeles (USA) Philadelphia (USA) Chicago (USA)

Honolulu (HAWAI - USA) Toronto (Canada) Mexico City (Mexico)

San Juan (Puerto Rico) São Paulo (Brazil) Rio de Janeiro (Brazil)

Santiago (Chile) Lisbon (Portugal) Guimarães (Portugal) London (England)

Madrid (Spain) Berlin (Germany) Paris (France) Marseille (France)

Salzburg (Austria) Brussels (Belgium) Prague (Czech Republic)

Rome (Italy) Amsterdam (Netherlands) Oslo (Norway) Tczew (Poland)

Zurich (Switzerland) Sydney (Australia) Shanghai (China)

Hong Kong (Hong Kong - China) Durban (South Africa)



WARNING
Real Time Cloud Ap
Quality Displays

vídeo

<http://vimeo.com/35520114>

Melhor que isso a gente faz...

 Presidência da República
Controladoria-Geral da União - CGU

Destaques do Governo

 PORTAL DA TRANSPARÊNCIA
do Governo Federal

Fale conosco | Glossário | Perguntas Freqüentes | Links | Manual de Navegação

Acesso rápido Selecone... OK

Você está em:
Início » Brasil » PE

Transparência nos Estados - Pernambuco (Governo do Estado)

O que é?
Orientações ao ente
Legislação
Transparência nos municípios

EM DESTAQUE
Número de Convênios por Concedente

1 2 Todas

PAINEL
Repasses do Governo Federal para o Governo do Estado em Setembro de 2011:
→ R\$ 283.619.101,44
Repasses do Governo Federal para o Governo do Estado acumulado em 2011:
→ R\$ 4.193.239.171,16

 Cadastro de Convênios

RECURSOS RECEBIDOS DO GOVERNO FEDERAL EM 2011

Recursos Recebidos por Área

Encargos Especiais -----	R\$ 3.219.265.186,20	FPE- CF art. 159 -----	R\$ 2.437.601.750,99
--------------------------	----------------------	------------------------	----------------------

Saúde -----	R\$ 668.179.996,27	FUNDEB -----	R\$ 642.572.662,10
-------------	--------------------	--------------	--------------------

Educação -----	R\$ 80.794.847,83	TETO MAC -----	R\$ 610.810.503,27
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Recursos Recebidos por Ação

APOIE O PROJETO

CEAP

COTA PARA EXERCÍCIO DA ATIVIDADE PARLAMENTAR

Você sabia que todo deputado Brasileiro, além dos salário e benefícios, tem direito a um gasto de até R\$ 44.000,00 por mês com atividades parlamentares? Coisas como comida, passagens de avião e combustível entram nessa cota.

O parlamentar usa seu dinheiro, envia as notas fiscais para a Câmara dos Deputados e recebe o reembolso pelo gasto.

Apenas com essa cota, os reembolsos dos 513 deputados em um ano significam um custo de

128 MILHÕES DE REAIS

REEMBOLSOS

O que já pagamos para nossos deputados?

Eu disse...
e apareceu mais rápido...

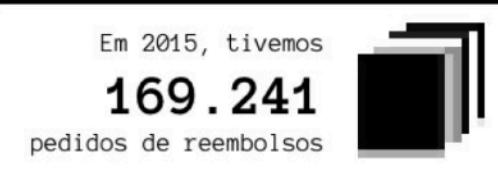
APOIE O PROJETO

**R\$ 6.205,00**

É o valor de uma nota que
foi reembolsada, referente a
UMA REFEIÇÃO

30 TANQUES DE
GASOLINA
COMPLETOS

Temos um deputado que costuma gastar

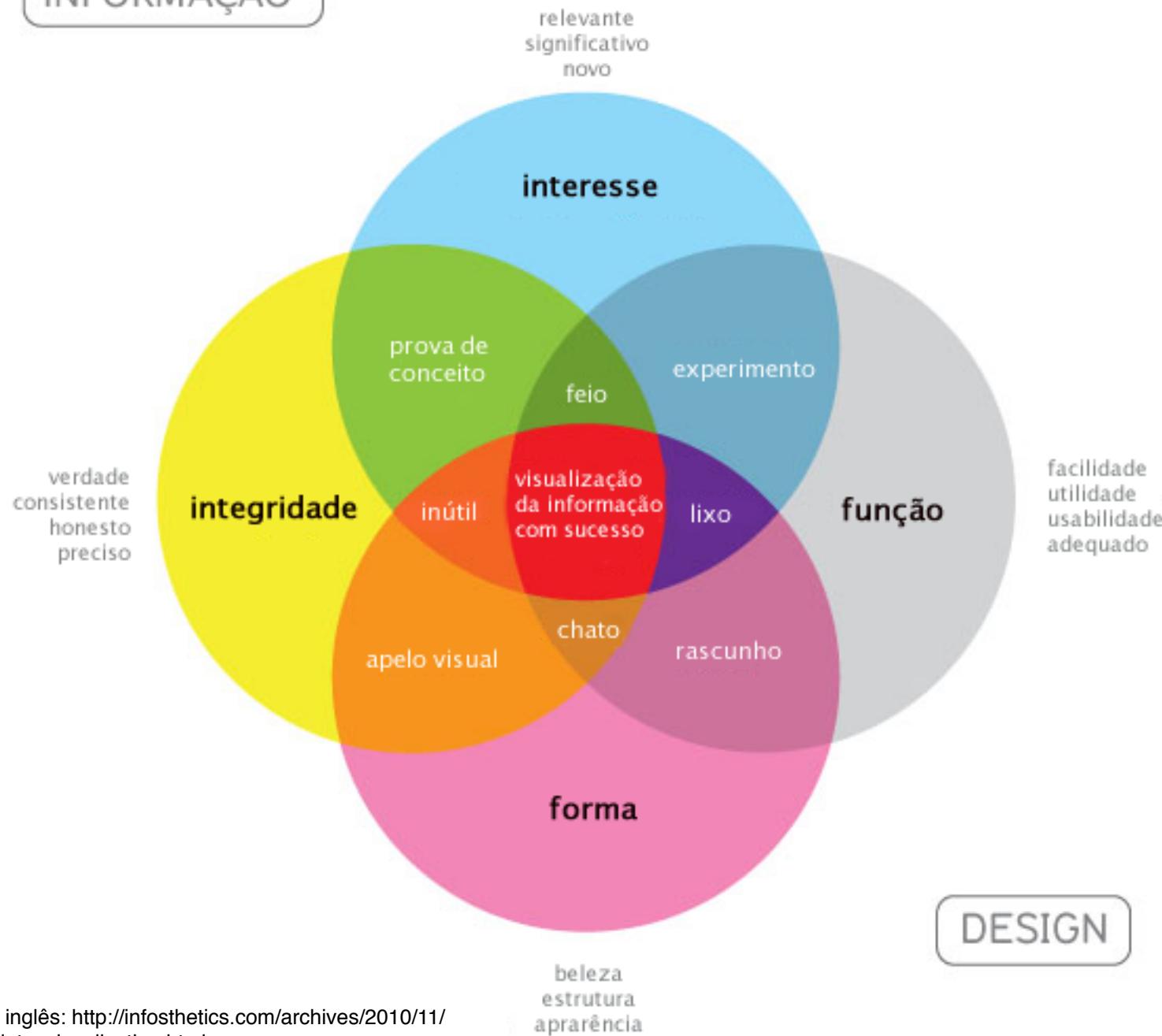
R\$ 6.000,00mensais em gasolina. Em média,
30 tanques por mês.**13**Dois deputados já
pediram reembolso
de 13 refeições
feitas no mesmo diaEm média, um dia
de reembolsos
de um deputado
custa**R\$ 122,00**Um deputado já foi
reembolsado por
BEBIDA ALCÓOLICA
EM LAS VEGAS**2
1
9****DEPUTADOS**Costumam a usar
O VALOR MÁXIMO
PERMITIDO
MENSALMENTE

Eu disse...
e apareceu mais rápido...

*Olhar além da tradicional
utilização da tela como interface*

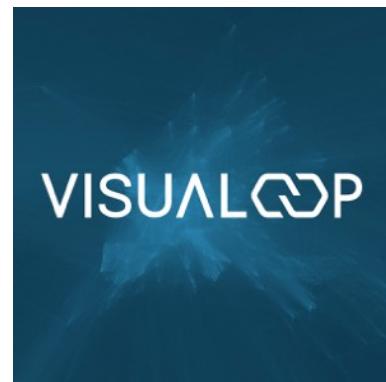
Interface non-screen-based + softwares e hardwares livres -> novas experiências estéticas produzidas e implementadas com baixo custo.

INFORMAÇÃO



DESIGN

Onde posso encontrar informações?



**DATA
STORIES**



*Onde posso
encontrar informações?*



www.datavizcatalogue.com

Quem seguir?

Jornalismo de dados

- Rodrigo Cunha
- Guilherme Storck
- Natália Mazotte
- Marcos Túlio Pires
- Sérgio Spagnuolo
- Clara Sacco (Data Labe)
- Gabriela Caesar
- Cecília do Lago
- Guilherme J Duarte
- Daniel Bramatti
- Rodolfo Viana
- Raquel Recuero

Data Science e big data

- Débora Mesquita
- Irio Musskopf
- Eduardo Cuducos
- Fernando Masanori
- Jéssica Temporal
- Letícia Portella
- Tarsis Azevedo
- Álvaro Justen
- Yasodara Córdova
(Yaso)
- Nazareno Andrade

Visualização de dados

- Júlia Giannella
- Doris Kosminsky
- Rafael Ancara
- Gabriel Gianordoli
- Ricardo Cunha Lima
- Fernanda Viegas
- Isabel Meirelles
- Luis Carli
- Carol Cavaleiro
- Mateus Paulino
- Patricia Gomes Lima
- Alessandro Alvim
- Gabriela Allegro

Desafio 01

1. Abrir uma planilha Google
2. Clicar na primeira célula e adicionar o código
`=IMPORTHTML("https://pt.wikipedia.org/wiki/Lista_de_filmes_de_maior_bilheteria", "table", 5)` caso queira importar a bilheteria dos filmes de Animação. Pode modificar o número 3 por 1 ou 2 e você terá outras tabelas. Outra opção seria utilizar o código
`=importHTML("http://voos.infraero.gov.br/hstvoos/RelatorioPortal.aspx", "table", 1)` para visualizar os voos atrasados nos aeroportos.
3. Clicar na aba Explorer que fica bem na região inferior a direita e adicionar uma opção dos gráficos disponível que represente o que você está vendo na tabela.
4. Enviar por e-mail ao professor
(rodrigo.medeiros@ifpb.edu.br) o pdf até a segunda depois do carnaval.

Muito obrigado!

Prof. Rodrigo Medeiros

rodrigo.medeiros@ifpb.edu.br

<http://rodrigomedeiros.com.br/cad>