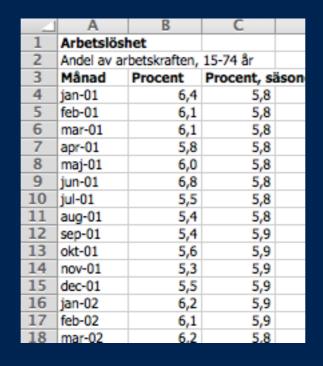
The secret to good data visualization

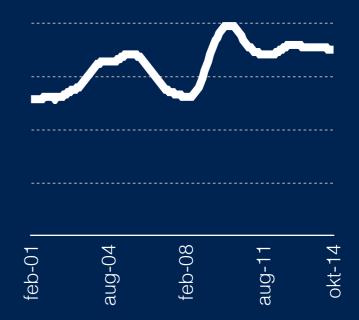
...and why we have this course.

To understand society you have to understand data.

World <> Data <> Visualization







To understand data you have to be able to visualize data.

So what is the secret good data visualization?

Coding for Journalists 101: A four-part series ***Tweet** 20

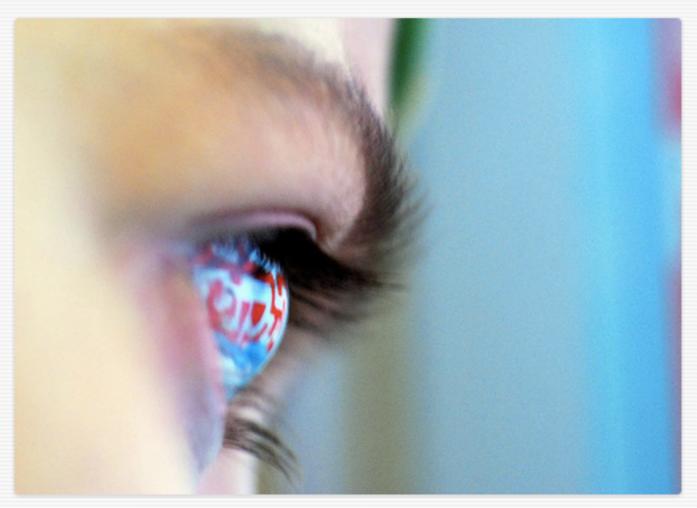
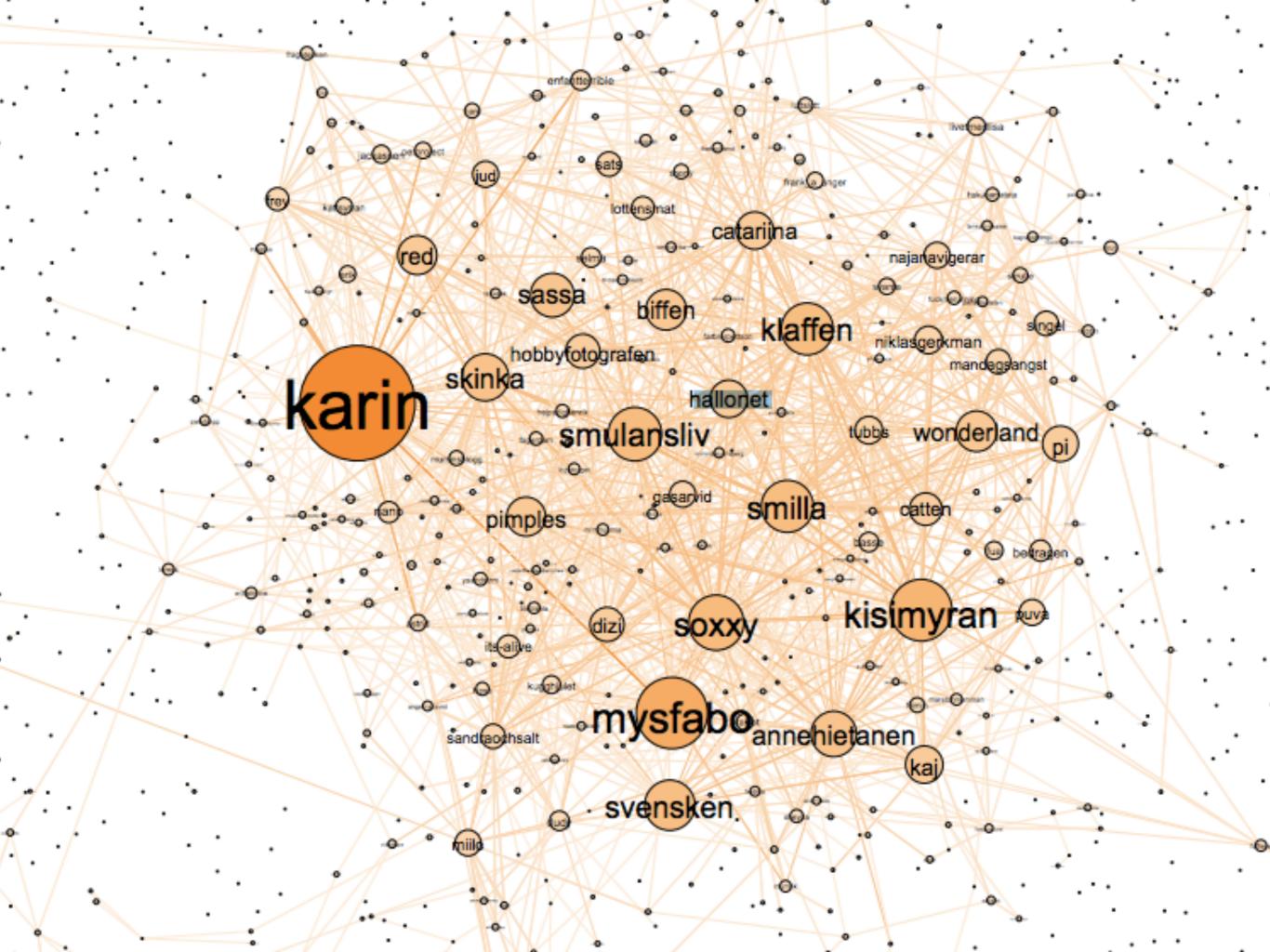


Photo by Nico Cavallotto on Flickr

```
require 'rubygems'
require 'nokogiri'
require 'open-uri'
friends = Array.new
list = Array.new
list = ["test"]
def do_stuff1()
list_of_blogs = Nokogiri::HTML(open("http://www.ratata.fi/alla_bloggar/#front-page?offset_3472=1230"))
    fetch_links = list_of_blogs.xpath("//div[@class='col w50 title']/a").collect[1..-1]
    fetch_links.each do |link_to_test|
        full_url = link_to_test["href"]
        list.push(full_url)
    puts full_url
    end
    list.each_index do |i|
        id = i
        link = list[i]
        File.open("ratata.txt", 'a'){ |f|
         f.write("#{id}\t#{link}\n")
   end
end
```

	Α	В	С	D	
1	0	http://newstone.ratata.fi			
2	1	http://miruschkan.ratata.fi			
3	2	http://ysandstrm.ratata.fi			
4	3	http://henriksdotter.ratata.fi			
5	4	http://mickeystar.ratata.fi			
6	5	http://people	es.ratata.fi		
7	6	http://villaro	sa.ratata.fi		
8	7	http://lindas	.ratata.fi		
9	8	http://pamsu	ıs.ratata.fi		
10	9	http://thatsa	llfolks.ratata.	fi	
11	10	http://pussar	n.ratata.fi		
12	11	http://hsb.ra	tata.fi		
13	12	http://johani	nah.ratata.fi		
14	13	http://matias	slofgren.ratat	a.fi	
15	14	http://janey.	ratata.fi		
16	15	http://chane	ttes.ratata.fi		
17	16	http://sofiase	d.ratata.fi		
18	17	http://tt.rata	ta.fi		
19	18	http://susolo	.ratata.fi		
20	19	http://pappe	rslapp.ratata.	fi	
21	20	http://tebero	ende.ratata.f	i	
22	21	http://armito	o.ratata.fi		
23	22	http://formid	arufmas.rata	ta.fi	
24	23	http://paulas	.ratata.fi		
25	24	http://visuali	sten.ratata.fi		
26	25	http://wehea	rtlina.ratata.i	fi	

	Α	В
1	1	550
2	1	764
3	1	781
4	2	233
5	2	366
6	2	1205
7	2	435
8	2	1142
9	2	691
10	2	1201
11	2	727
12	6	868
13	6	399
14	6	780
15	6	473
16	6	368
17	6	1129
18	12	1076
19	16	37
20	17	716
21	22	119
22	22	362
23	22	878
24	22	294
25	22	569
26	22	1003



dataist

a blog about data exploration

← Political Misuse of Statistics Busted

Project One: Visualizing Friendship →

Mapping Ratata: Who's Hot?

Posted: February 5, 2011 | Author: Jens Finnäs | Filed under: Own projects | Tags: gephi, network, ratata, ruby, screen scraping, social network | Modify: Edit |8 Comments

I wanted to play around in **Gephi** a bit more after my previous post about **visualizing my social network on Facebook**. So for my second project I turned my eyes to **Ratata**, a Swedish blog

community in Finland with just over 1200 bloggers. A friend of mine, **Poppe** (also on Ratata), has

been talking about analyzing the Swedish blogosphere. I hope he doesn't mind me "borrowing" the

idea.

I have almost no prior programming experience, but for some time now I have been trying to learn more about screen scraping. Guided mostly by the **Dan Nguyen's** brilliant tutorial on **coding for journalist** I have started to know my way around Ruby. **Scraper wiki** also provides good guidance for those of us who still mostly do copy-paste programming.

After two days of trial and error I managed to put together a script that extracts all the links to fellow Ratata blogs from all the 1207 blogs. That gave me a data set of almost 2000 connections (due to some technical issues I had to exclude a couple of blogs). I obviously wanted to find out who is

What's this?

This blog is about finding, exploring and presenting data online. Or simply data journalism.

The author is **Jens Finnäs**, a freelance journalist from Finland, currently living in Stockholm, Sweden.

Get in touch

i jens.finnas@gmail.com

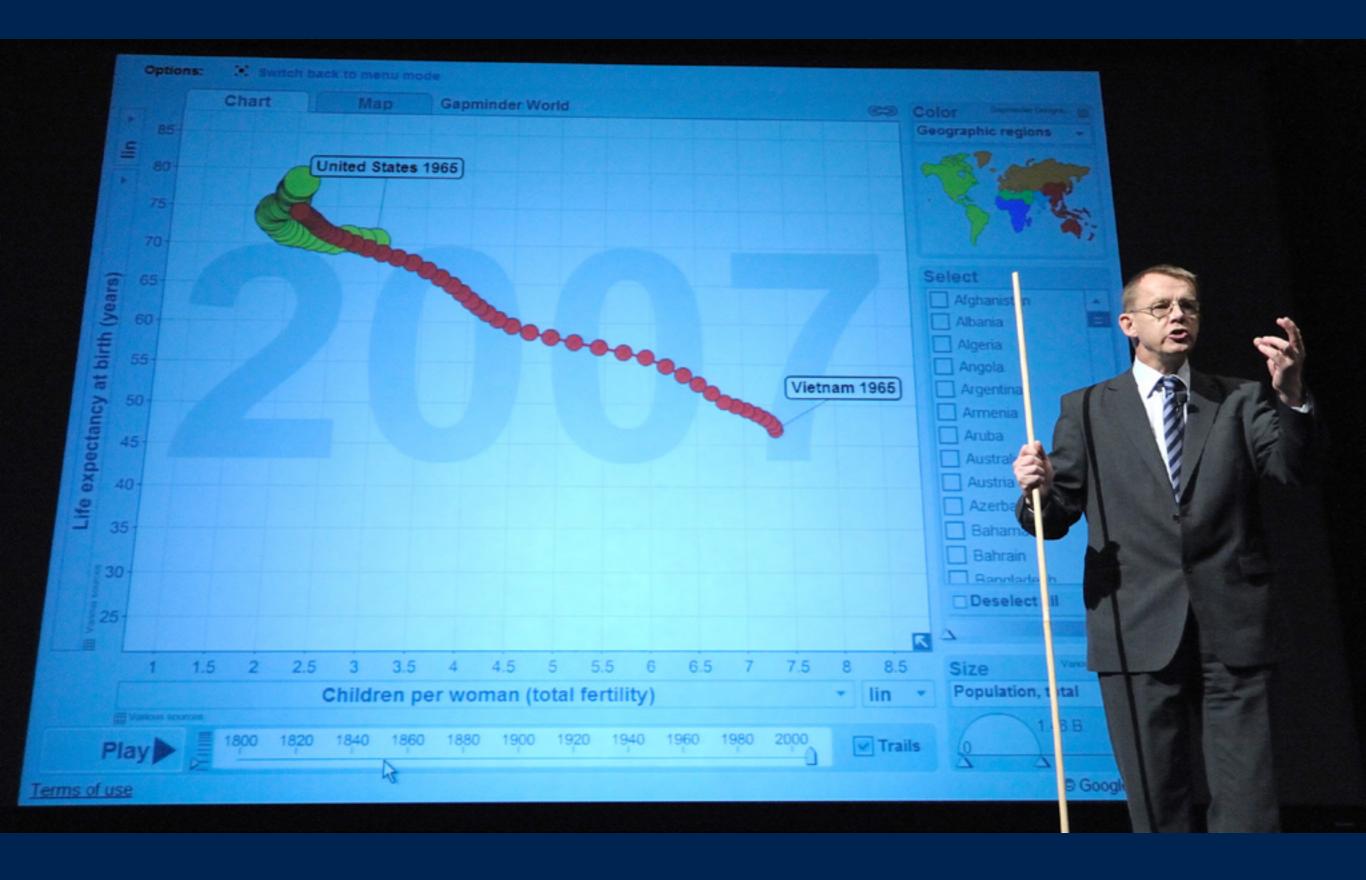
■ Twitter: @jensfinnas

Twitter: @the_dataist

Tags

age animation anti-jihadist athletics
backlinks Brevik campaign funding
climate change copyright laws crime d3.js
earthquake economy ehdolla.org





What makes Hans Rosling's data visualizations great?

Medium
Sender ➪ Message ➪ Receiver

How is digital different than analogue as a data viz medium?

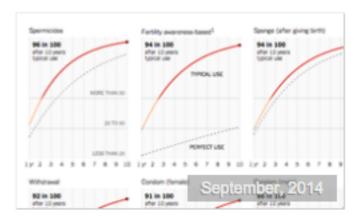
- 1. Animation.
- 2. Interaction.
- 3. Narration.
- 4. Boundlessness.



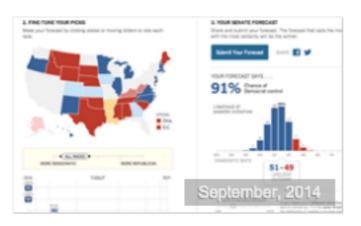
Heavier Babies Do Better in School



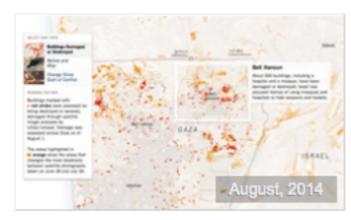
Flooding Risk From Climate Change, Country by Country



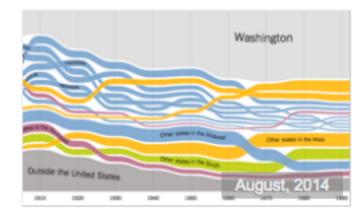
How Likely Is It That Birth Control Could Let You Down?



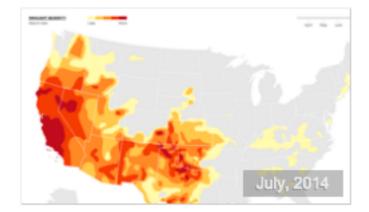
Elections 2014: Make Your Own Senate Forecast



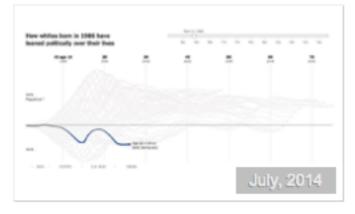
Assessing the Damage and Destruction in Gaza



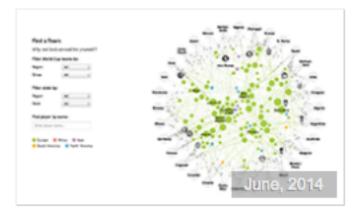
Where We Came From, State by State



Mapping the Spread of Drought Across the U.S.



The How Birth Year Influences Political Views



The Clubs That Connect the World Cup

Medium

Sender <> Message <> Receiver

Medium
Sender ➪ Message ➪ Receiver

Good data visualization tells a story.

Good data visualization has something to say.

How to do it?

Find the story

Start with a question or with set of data.

What do you want to say?

```
Is the purpose to...
...explain a phenomenon?
...make an argument?
...let the user explore?
```

Who is your audience?

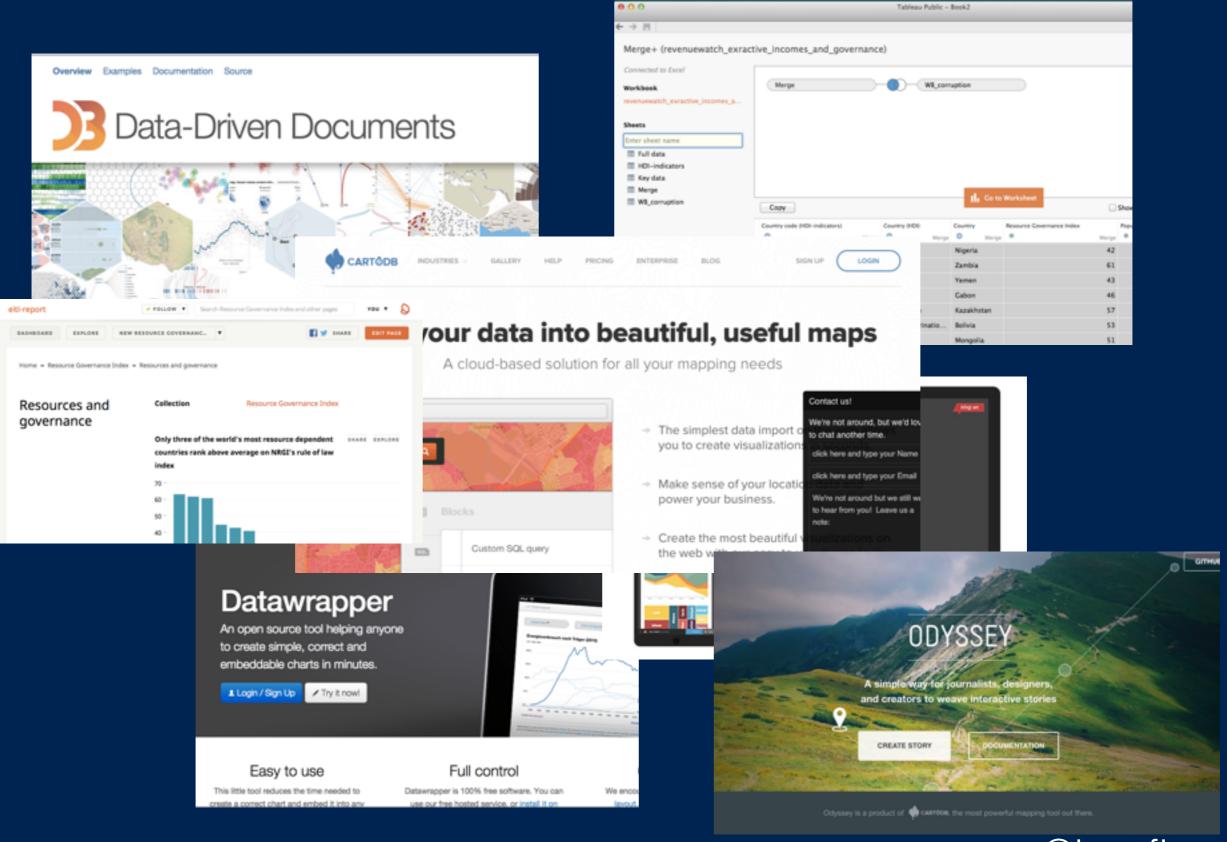
Find the story



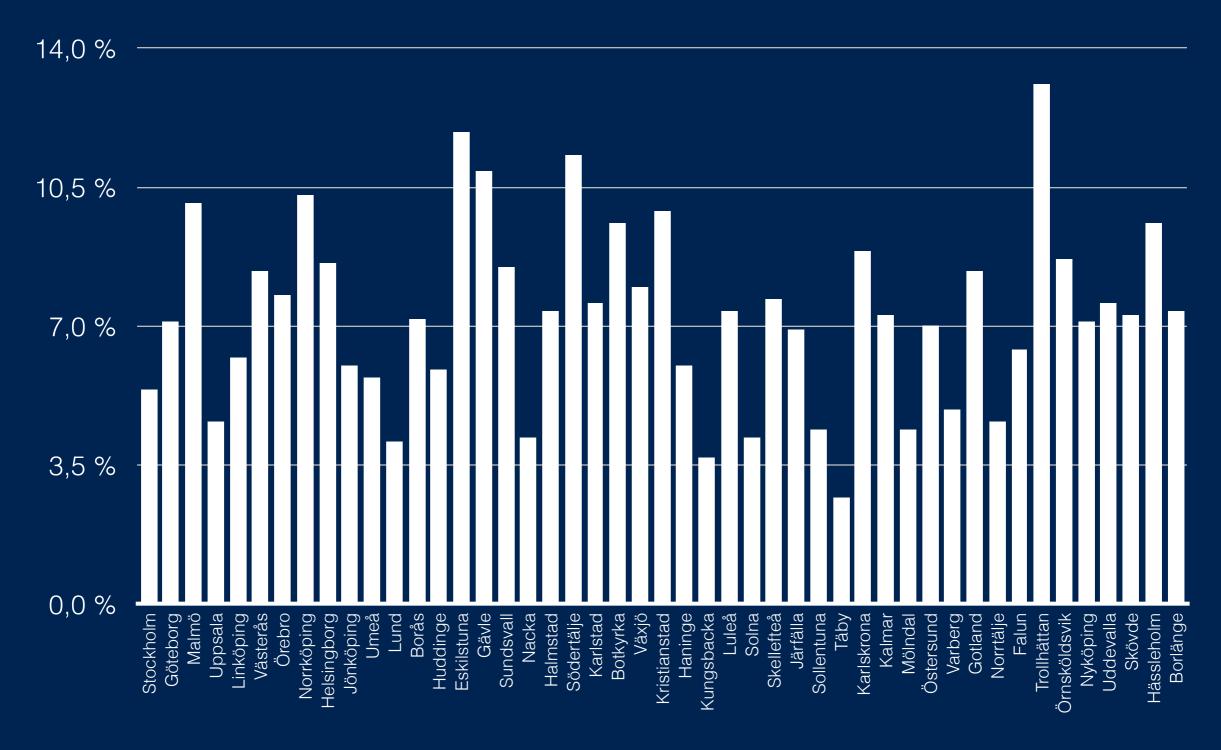
Choose the form

```
Do you want to highlight...
...a difference?
...a change over time?
...a relationship?
...a geographical pattern?
```

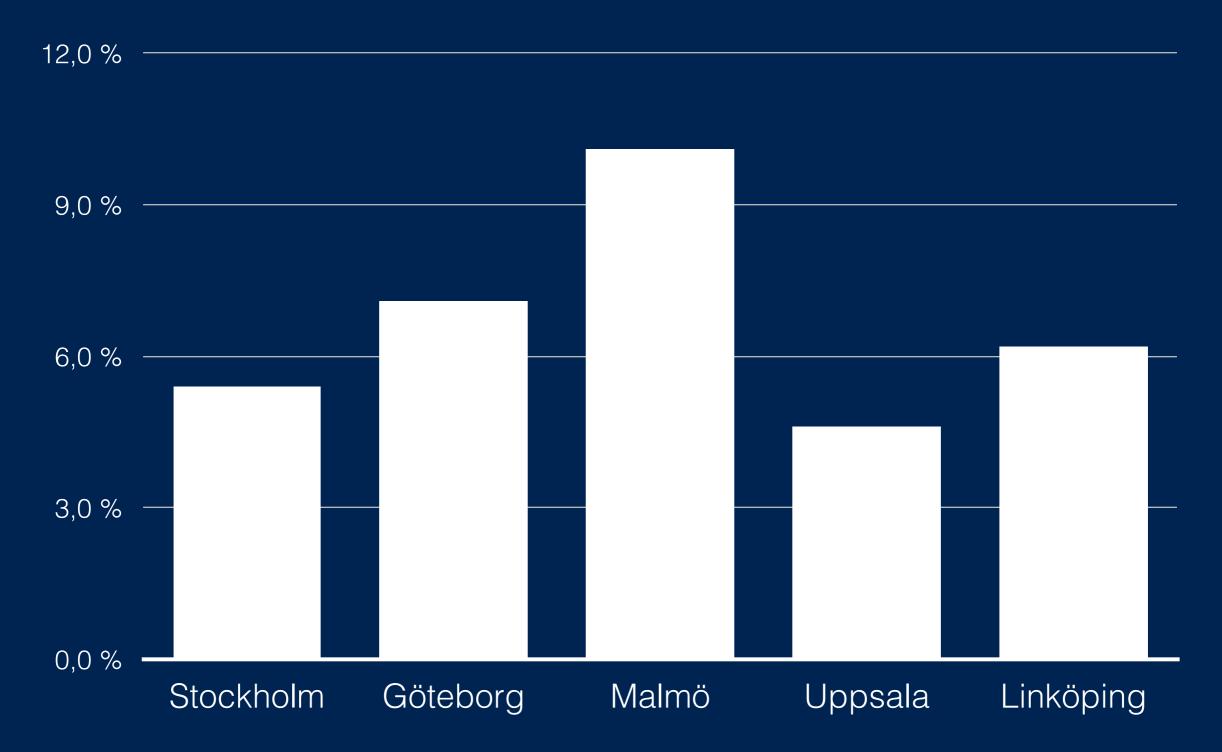
Find the story Choose the form Visualize



Unemployment 2013

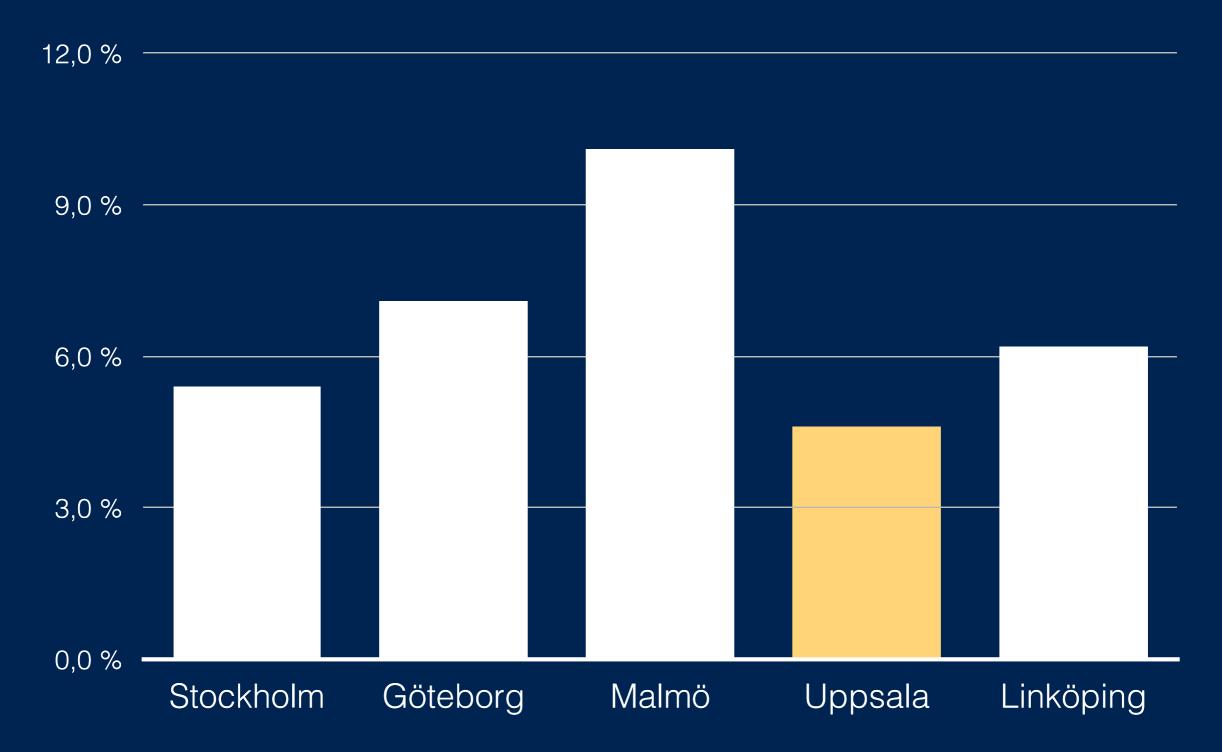


Unemployment 2013



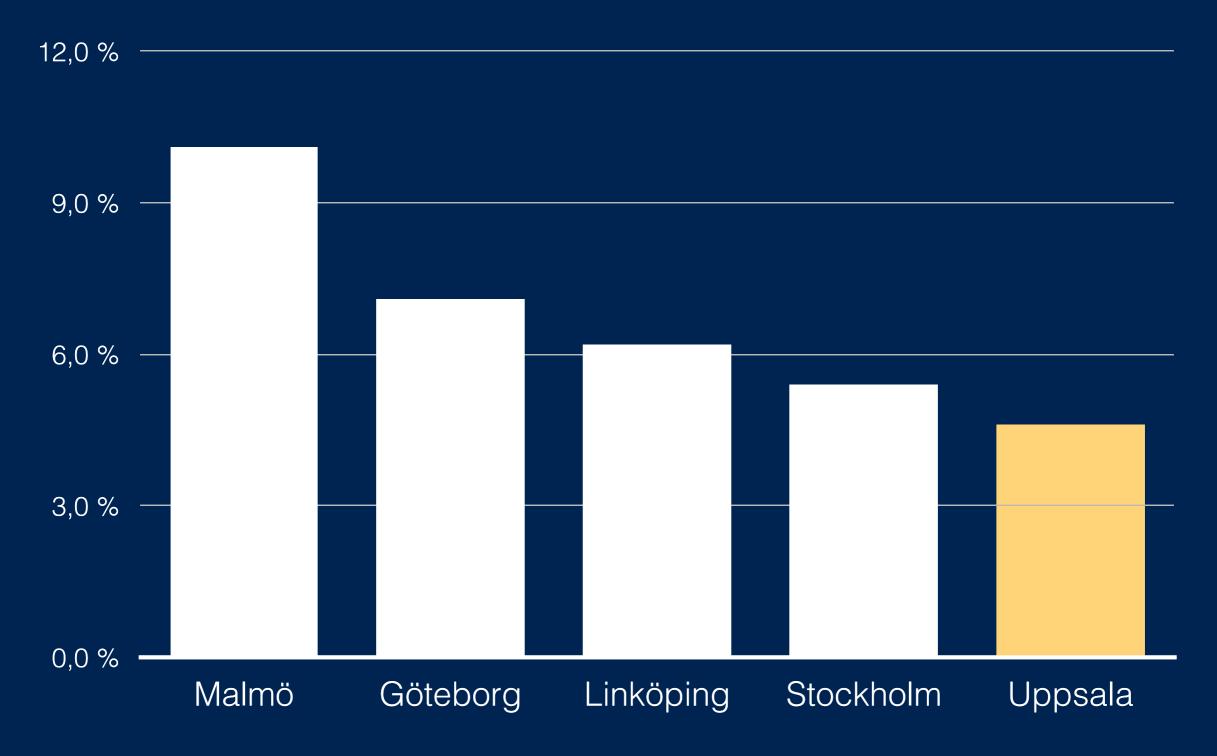
@jensfinnas

Arbetslöshet 2013



@jensfinnas

Arbetslöshet 2013



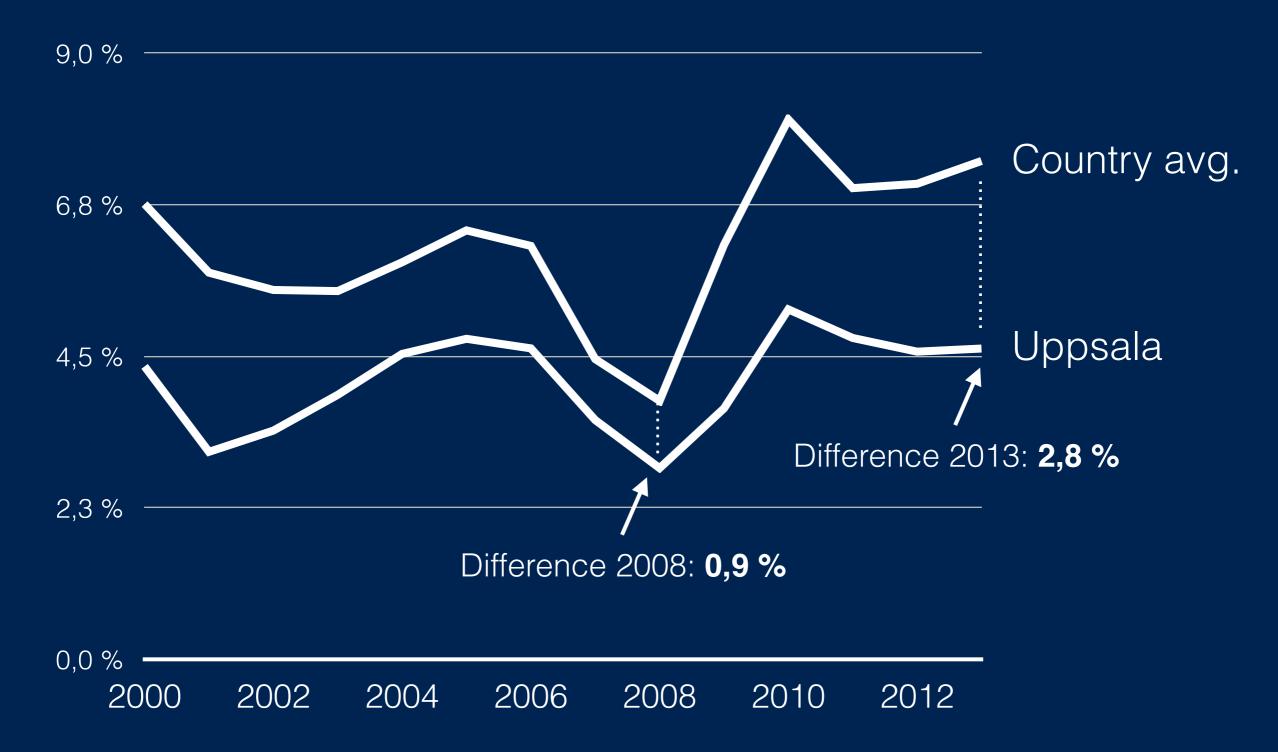
@jensfinnas

Unemployment 2000-2013



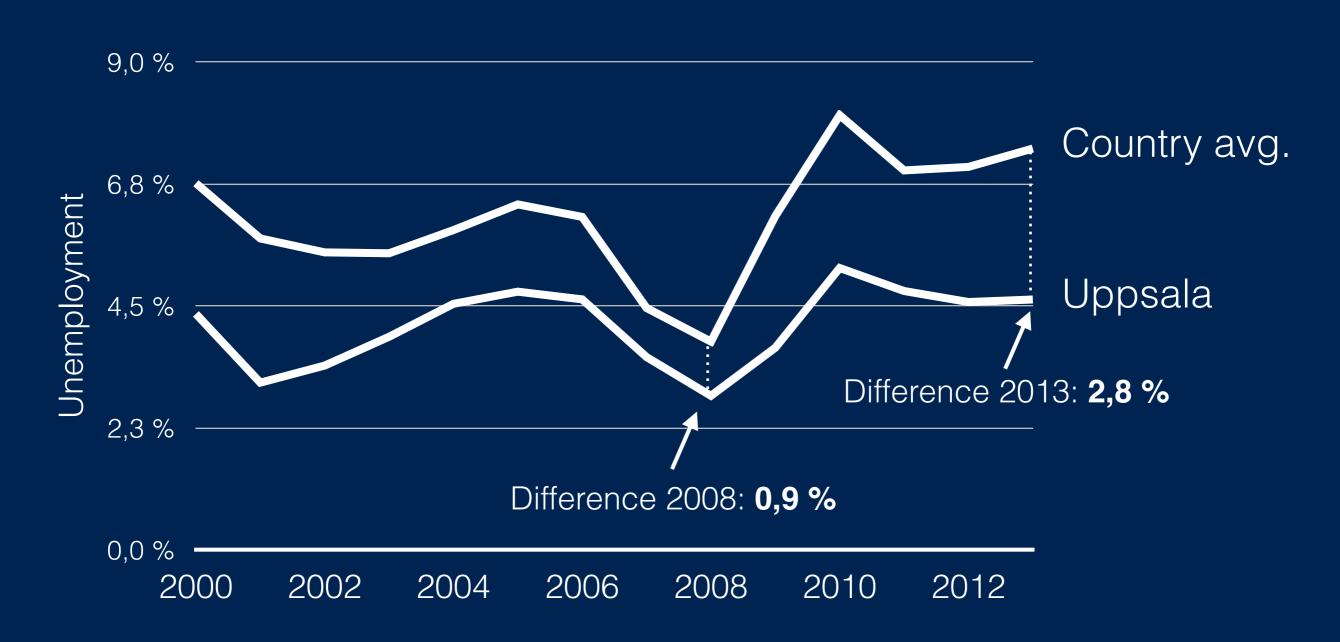


Unemployment 2000-2013

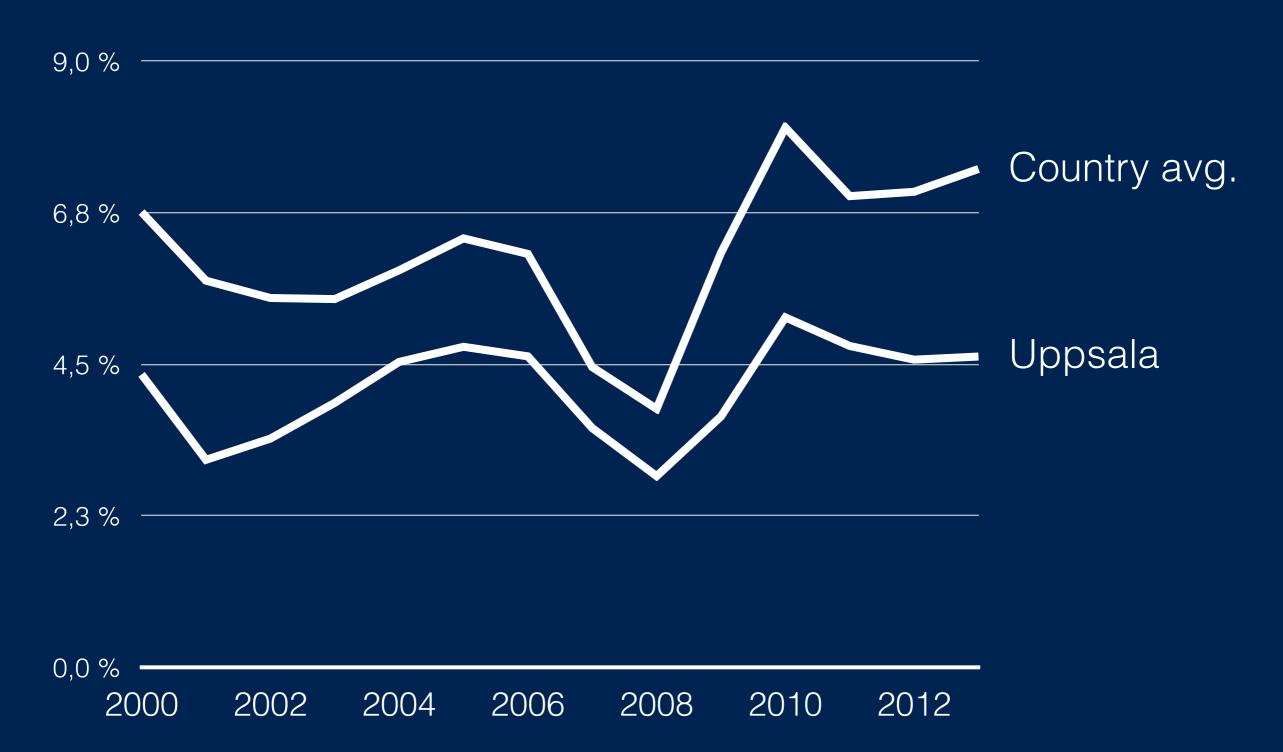


Uppsala recovered the crisis better

Since 2008 unemployment has risen, but not as much as in the rest of Sweden.



Unemployment 2000-2013



Title
Annotation
Filtering
Coloring
Sorting

Find the story Choose the form Visualize

The course.

- 8.12 Introduction
- 9.12 Workshop about finding and researching the story in data with **Paloma Pérez Lucero** from TT.
- 10.12 Workshop about visualizing data with **Information** is beautiful.
- 12.12 Excel workshop and data viz tools with **Jens Finnäs**.
- 15.12 Visualizing data online with **Daniel Lapidus**.
- 14.1 Mid-term presentations
- 15.1 Canvas magic and HTML5 with **Cas Lemmens**.
- 29.1 Final presentaions

The assignment Analyze a set of data. Find a story. Present it.

Data Use a client dataset or find your own.

Final product

A interactive application, an infographic, a video.
Or something else?

Presentations

Mid-term: January 15th

Online: January 27th

Final: January 29th

Prepare to answer

What do you want to say?

What is the purpose?

Who is the audience?

Why did you choose this form?

Evaluation

Is the story interesting?
Do we understand it?
Is it aesthetic and well designed?

Find the story Choose the form Visualize

bit.ly/dds-2014

