

Data Mining

Statistics from databases and registers

16 March 2010

Stockholm University

Master Program in Statistics

<http://gauss.stat.su.se/master/statdatabaser.shtml>

Alf Fyhrlund

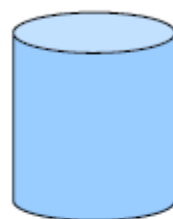
Statistics Sweden - Communication/Marketing

Data Mining definition

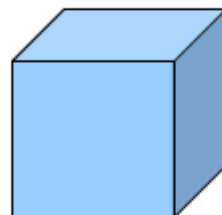
"the nontrivial extraction of implicit, previously unknown, and potentially useful information from data"

/many examples of definitions, e.g in [Wikipedia](#)

Knowledge creation



Data



Statistical Analysis



Presentation



Discussion, collaboration
and validation



Knowledge

Content

Publishing data

Micro data

Four main databases

Statistics Sweden

UN

OECD

Eurostat

Tools for search

Special applications

Flash - visulisation

Platforms

Information flow

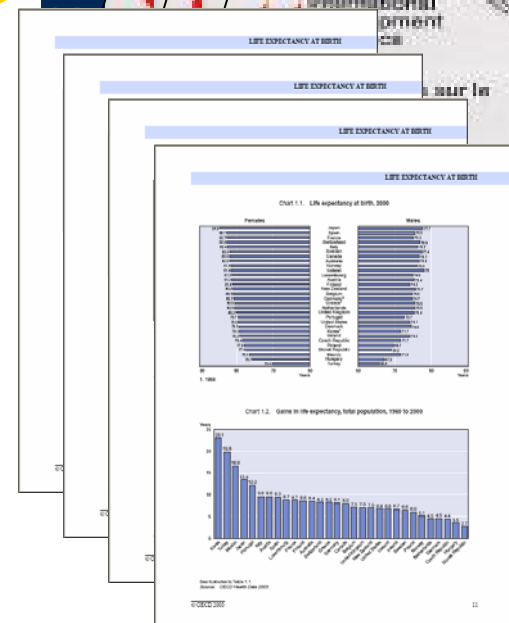
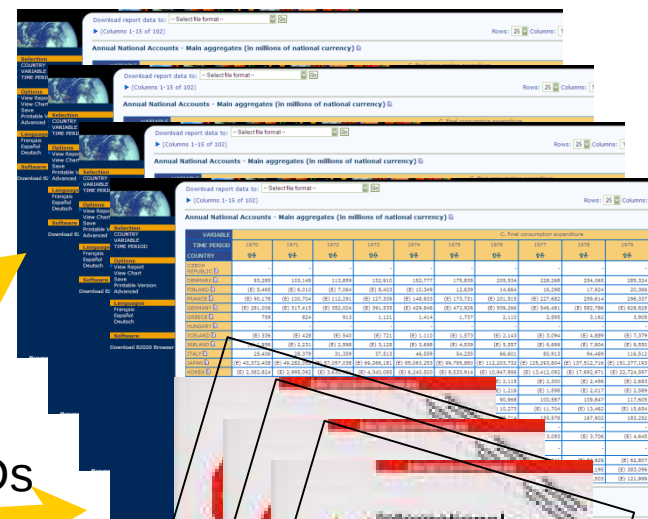
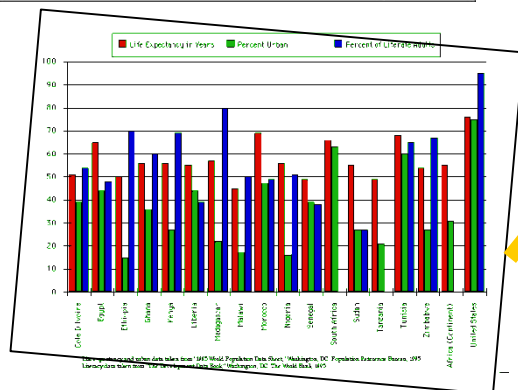
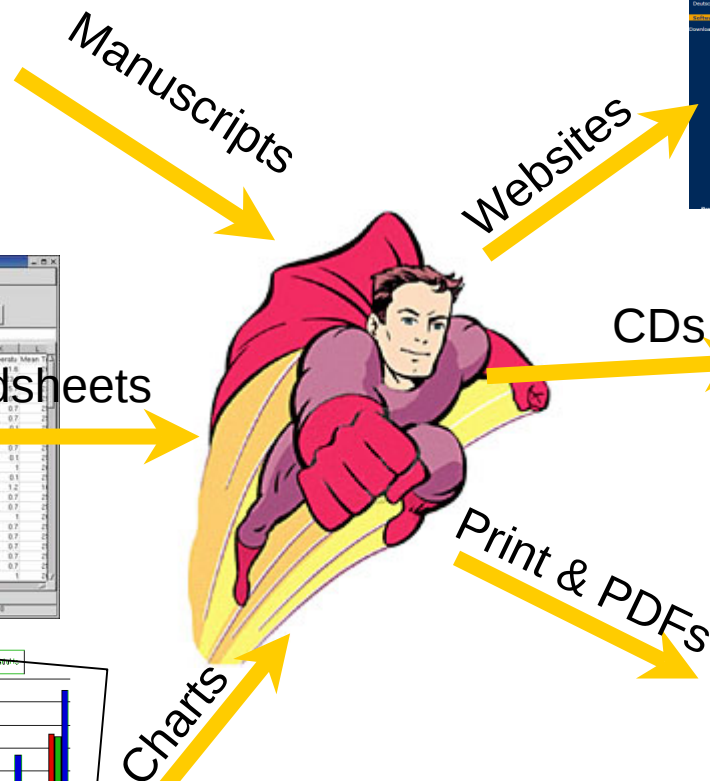
Web 2.0

blogs

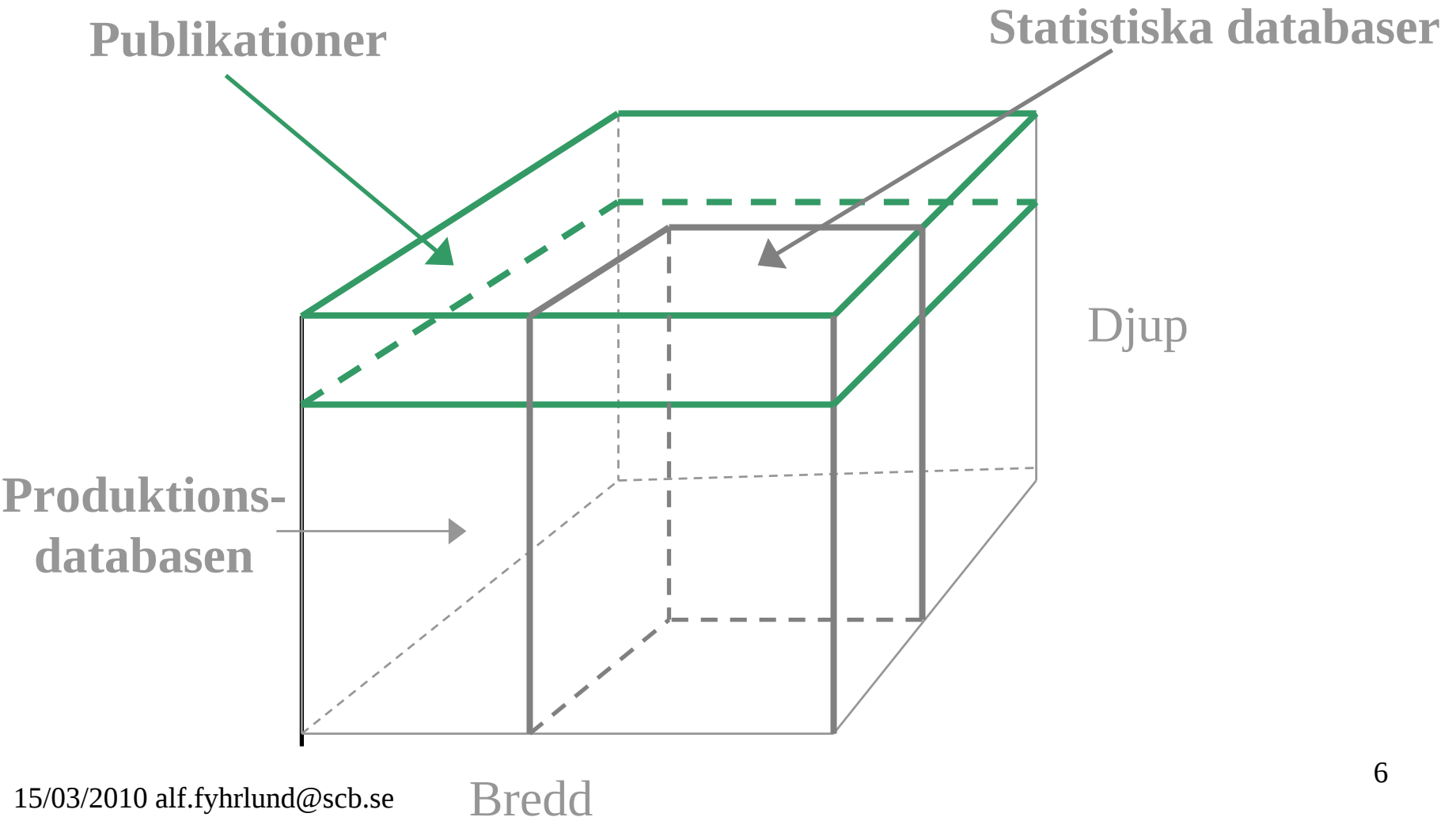
RSS

Public data

Quality criteria



Spridningskuben

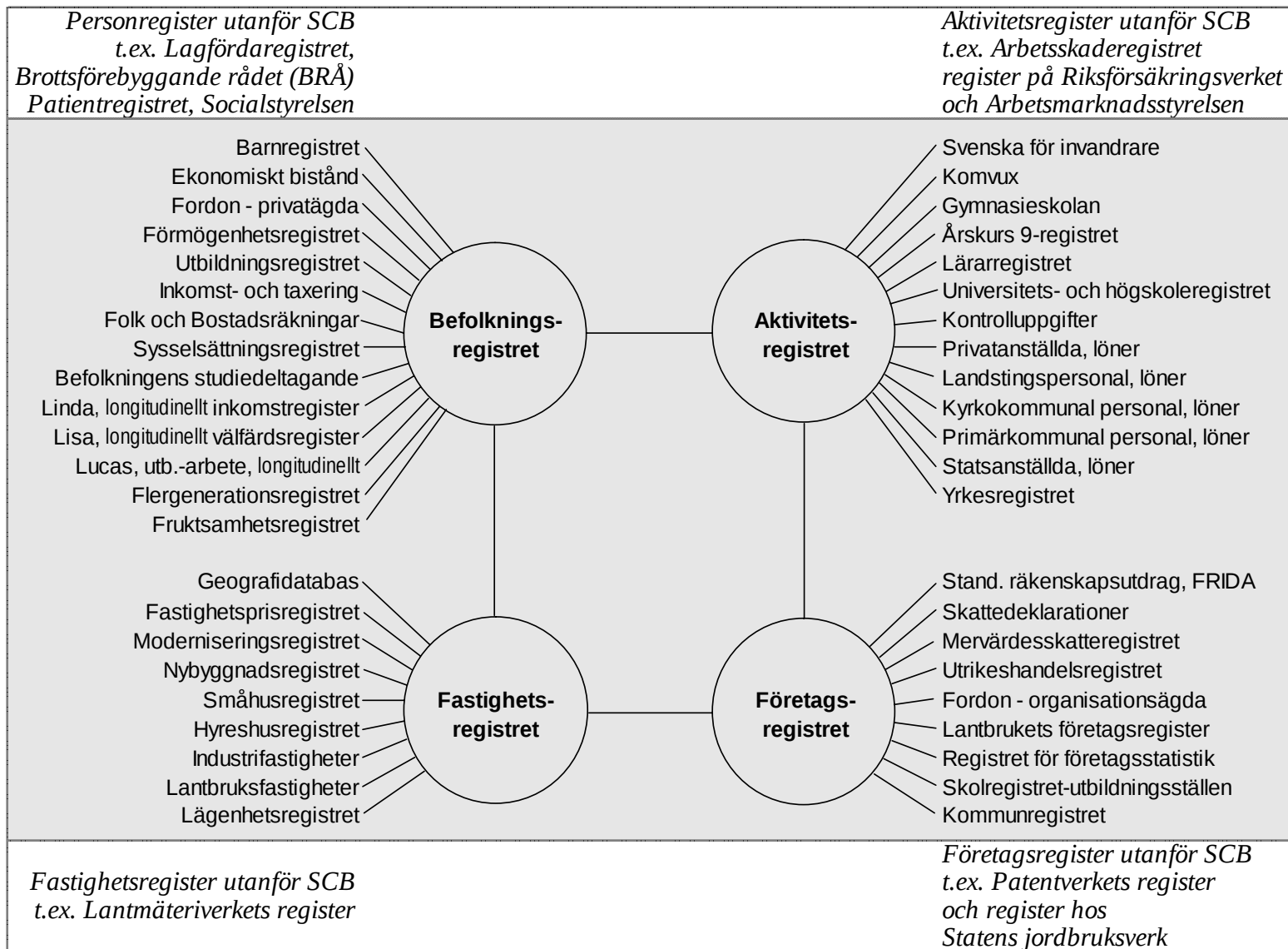


Dataterminologi

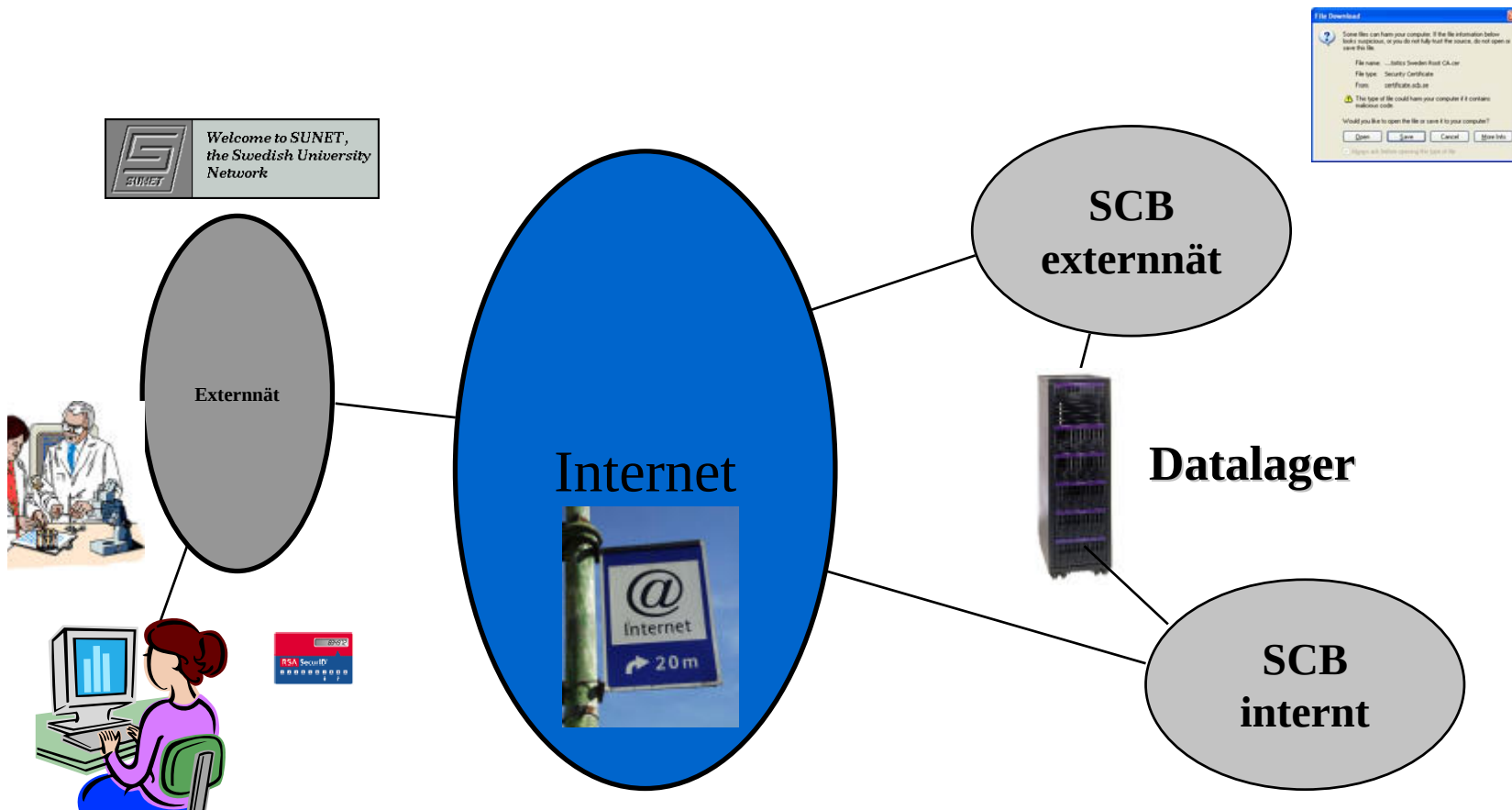
- Makrodata: ”statistik”
- Metadata: beskrivningar och förklaringar som man behöver för att förstå och använda statistiken på rätt sätt
- Mikrodata: enskilda observationer som kan summeras till statistik enligt användarens önskemål – inom ramen för gällande sekretessregler
- Dokumentation

SCB: registersystem (mikrodata)

Registersystemet och olika Statistikansvariga Myndigheter

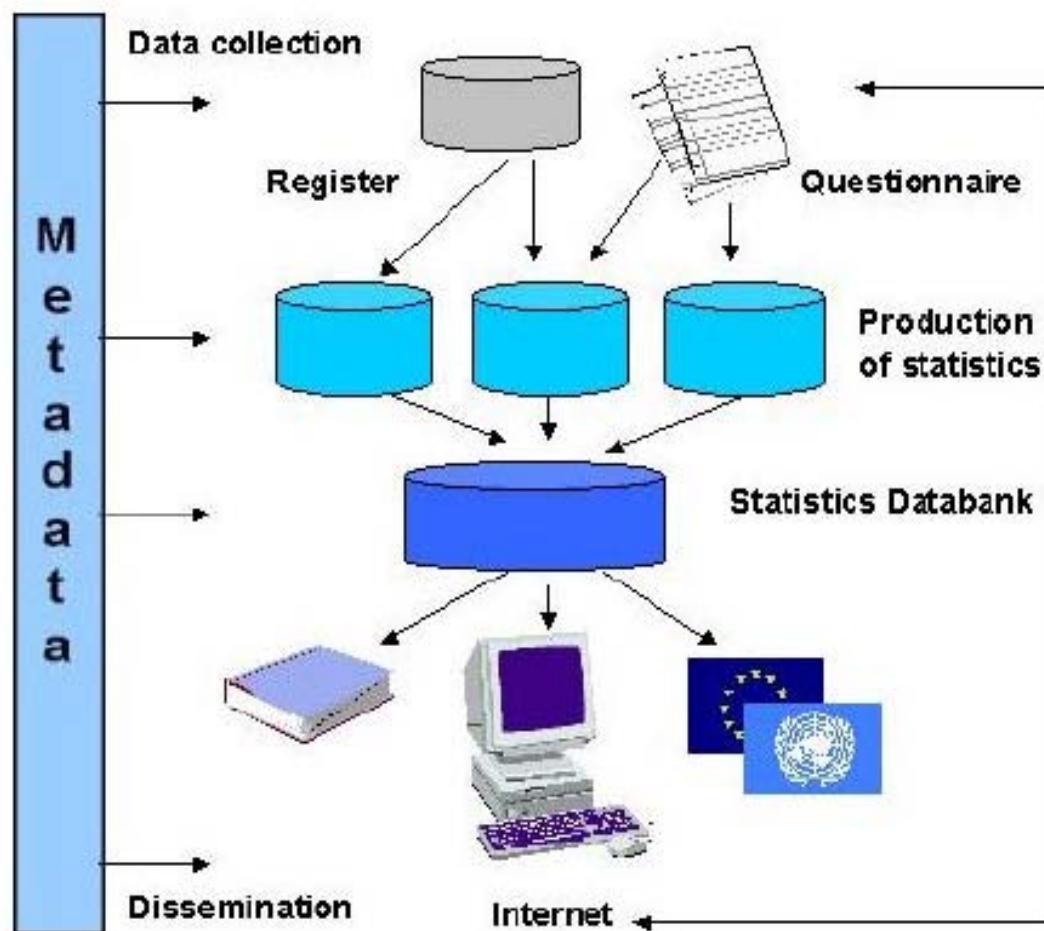


Åtkomst till mikrodata: MONA – Microdata ONline Access



- Projektstart 2003
- Full drift 2005

Figure 1. Data flow and important metadata requirements in a statistical institute



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Statistics Sweden

– your source for knowledge

Jack or Jill?

How many people in Sweden have the same name as you? Take a look in our name search that has now been updated with the latest information. You will find it here on our start page. Which names are the most popular? Our top 10 and top 100 lists have also been updated.

[▶ Name statistics](#)

What do we do?

Statistics Sweden is a government agency that produces statistics. The statistics are used as a basis for decision-making, debates and research. We also have a coordinating role for the official statistics of Sweden.

[▶ Read more under About us](#)

Better finances for Swedish households in the 2000s

The economic standard for Swedish households has increased dramatically during the 2000s. In 2008 the economic standard was 32 percent higher than in 1999. However, the increase has not been as significant for everyone, and the differences have increased for certain groups. [Read entire press release](#) - 3 Mar

- ▶ Greater surplus for municipalities and county councils in 2009 - 3 Mar
- ▶ Capital gains decreased in 2008 - 3 Mar
- ▶ Weakened current account during 2009 - 3 Mar

[▶ More press releases](#)[Namesearch](#)

Search for names

Quick figures

- ▶ Unemployment rate **9.4%**
(January 2010)
- ▶ Population **9 340 682**
(31 December 2009)
- ▶ Consumer Price Index **0.6%**
(Januari 2010 compared to January 2009)
- ▶ National Accounts, GDP **-1.5%**
(4th Quarter 2009 compared to 4th Quarter 2008)

[▶ More indicators](#)

Publishing calendar

[Planned publishing](#)

Courses and seminars

[▶ See all courses](#)



Statistikansvariga myndigheter och statistikprodukter den 31 december 2006

Statistikansvarig myndighet	Antal statistikprodukter som myndigheten har ansvar för
Arbetsmiljöverket	4
Brottsförebyggande rådet	5
Centrala studiestödsnämnden	2
Domstolsverket	1
Ekonomistyrningsverket	2
Finansinspektionen	9
Fiskeriverket	3
Försäkringskassan	16
Högskoleverket	5
Institutet för tillväxtpolitiska studier	7
Kemikalieinspektionen	6
Konjunkturinstitutet	1
Medlingsinstitutet	14
Naturvårdsverket	9
Riksgäldskontoret	2
Skogsstyrelsen	12
Socialstyrelsen	27
Statens skolverk	16
Statens energimyndighet	17
Statens institut för kommunikationsanalys	13
Statens jordbruksverk	22
Statens kulturråd	7
Statistiska centralbyrån	119
Sveriges lantbruksuniversitet	1
Verket för näringslivsutveckling	1
Totalt antal statistikprodukter	321

Anm.: I antalet statistikprodukter ingår även sekundärpubliceringar. Register utan egen publicering där publiceringen i stället görs i särskilda produkter har inte tagits med i redovisningen, t.ex. Registret över totalbefolkningen.



Olika användare har olika behov ...



forskare

utredare

handläggare i
regeringskansliet

politiker

lärare - elev

**Sveriges
statistiska
databaser**

Mitt i prick?

journalist

aktör på
finansmarknad

intresserad
medborgare



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Statistical database

Select by subject area

Statistics in English:

- › [Agriculture, forestry and fishery](#)
- › [Business activities](#)
- › [Democracy](#)
- › [Education and research](#)
- › [Environment](#)
- › [Financial markets](#)
- › [Household finances](#)
- › [Housing, construction and building](#)
- › [Labour market](#)
- › [National accounts](#)
- › [Population](#)
- › [Prices and Consumption](#)
- › [Public finances](#)
- › [Trade in goods and services](#)

The complete database - statistics in Swedish:

- › [Agriculture, forestry and fishery](#)
- › [Business activities](#)
- › [Culture and leisure](#)
- › [Democracy](#)
- › [Education and research](#)
- › [Energy](#)
- › [Environment](#)

Search the statistical database[Search tips!](#)

- ☒ Search in text
- ☐ Search for code (e.g 0180)

Find

Connected to the database as user `scb`

Varför statistikdatabas?

- Allt på ett ställe
- Strukturerad lagring
- Lätt att hitta tabeller
- Flexibla uttagsmöjligheter
- Redigeringsmöjligheter
- Koppling till metadata
- Kontaktperson för varje tabell



Fact vs. perceptions
 What gets measured is what gets done!
 Continuous dissemination of comparable international statistics since 1921

United Nations Statistics Division

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PROGRAMME OF WORK

- | [Economic Statistics](#)
- | [Demographic & Social Statistics](#)
- | [Environment & Energy Statistics](#)
- | [Development of National Statistical Systems](#)
- | [Millennium Development Goals](#)
- | [Geographic Information](#)

OUR COMMITMENTS

- | [Principles Governing International Statistical Activities](#)
- | [Fundamental Principles of Official Statistics](#)

UNSD PARTNERS

The Statistics Division is committed to the advancement of the global statistical system. We compile and disseminate global statistical information, develop standards and norms for statistical activities, and support countries' efforts to strengthen their national statistical systems. We facilitate the coordination of international statistical activities and support the functioning of the UN Statistical Commission as the apex entity of the global statistical system. For more, see [About us](#).

Celebrating the many contributions and achievements of official statistics



20.10.2010
World Statistics Day



Service · Professionalism · Integrity

UN Statistical Commission

The [UN Statistical Commission](#) is the apex entity of the global statistical system. It considers and approves international statistical



Data search:

Gateway to statistical information from databases of the UN and Member States

UNSD Calendar of Events

HIGHLIGHTS, MAJOR INITIATIVES AND ACTIVITIES

[CLICK HERE](#)

IN FOCUS

[Workshop on the Methodology and Data Compilation of International Merchandise Trade Statistics](#)

Phnom Penh, Cambodia,
 2-5 February 2010



[Data](#)
[Glossary](#)
[Metadata](#)
[More](#)

Search

29 databases - 60 million records  Update calendar

 Visit the Monthly Bulletin of Statistics Online

Databases

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 - International Homicide Data, UNODC
- Education
 - UIS Data Centre, UNESCO UIS 
- Energy

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- > RSS Feeds  [RSS](#)

Where to find our statistics?

Data warehouse and databases

- [OECD.Stat Extracts](#): a selection of datasets (no subscription)
- [OECD.Stat](#): our complete statistics service by subscription (free trial)
- A few databases are not available via the links above:
=> [Student Assessment](#) (PISA)
=> [Key Environmental Indicators 2008](#)

Key tables

- [Country Statistical Profiles](#)
- [OECD Factbook](#)

Visualize our data

- [Dynamic maps and charts](#)

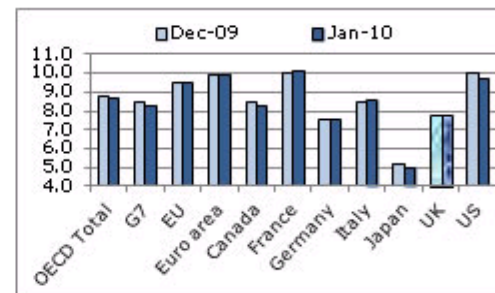
Need help? Consult our:

- [List of topics](#)
- [Frequently requested statistics](#)
- [List of statistics publications](#)
- [Brochure about our work on statistics](#)

News

News releases

- [Reforming our economies must replace crisis management](#) (10 Mar.)
- [Unemployment rate falls to 8.7% in January, driven by US and Japan](#) (8 Mar.)



Don't miss

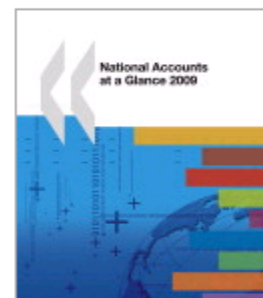
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What kind of statistics can you find at the OECD?



OECD Work on Statistics will help you answer this recurrent question

National Accounts at a Glance 2009



Factblog

Methodology and Tools

Merged Queries ? ▾

Browse Queries ? ▾

Frequently requested data:

- ☐ Reference Series
- ☐ Gross Domestic Product

Browse Themes ? ▾

Find in Themes » Reset

- ☒ General Statistics
- ☒ Agriculture and Fisheries
- ☒ Demography and Population
- ☒ Development
- ☒ Economic Projections
- ☒ Education and Training
- ☒ Environment
- ☒ Finance
- ☒ Globalisation
- ☒ Health
- ☒ Industry and Services
- ☒ Information and Communication Technology
- ☒ International Trade and Balance of Payments
- ☒ Labour
- ☒ Monthly Economic Indicators
- ☒ National Accounts
- ☒ Prices and Purchasing Power Parities
- ☒ Productivity
- ☒ Public Sector, Taxation and Market Regulation
- ☒ Regional Statistics
- ☒ Science, Technology and Patents
- ☒ Social and Welfare Statistics

Welcome to OECD.Stat Extracts

Four ways to access the data

OECD.Stat includes data and metadata for OECD countries and selected non-member economies.

Easy access:

- By **keyword** using "search" (e.g. [GDP](#), [Health](#), [unemployment](#), [income](#), [population](#), [labour](#), [education](#), [trade](#), [finance](#), [prices](#), [Economic Outlook](#) ...)
- By **theme** in the left-hand menu
- By accessing your **saved queries** under "browse queries"
- By **country** via the selection of key indicators in [Country statistical profiles 2009](#)

Getting Started

SELECT a dataset in the left-hand menu.

CREATE and customize your table by clicking on "current data selection".

RESHAPE your table using "pivot dimensions" to move rows and columns.

TAKE AWAY the data to Excel or CSV, print your query or save it for later use.

[more help](#)

Merged Queries ? ▾

Browse Queries ? ▾

Frequently requested data:

- ☐ Reference Series
- ☐ Gross Domestic Product

Browse Themes ? ▾

Find in Themes >> Reset

- ☐ General Statistics
- ☐ Agriculture and Fisheries
- ☐ Demography and Population
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- ☐ Economic Projections
- ☐ Education and Training
- ☐ Environment
- ☐ Finance
- ☐ Globalisation
- ☐ Health
- ☐ Industry and Services
- ☐ Information and Communication Technology
- ☐ International Trade and Balance of Payments
- ☐ Labour
- ☐ Monthly Economic Indicators
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- ☐ Prices and Purchasing Power Parities
- ☐ Productivity
- ☐ Public Sector, Taxation and Market Regulation
- ☐ Regional Statistics
- ☐ Science, Technology and Patents
- ☐ Social and Welfare Statistics
- ☐ Non member Economies

Hourly Earnings (MEI) ⁱ

Change data selection: Subject [3 / 4] Country [37 / 39] Time & Frequency [14]



Data extracted on 03 Mar 2010 11:21 UTC (GMT) from OECD.Stat

Subject		Manufacturing, index 2005=100													
Frequency		Annual			Quarterly			Monthly							
Time		2007	2008	2009	2009							2010			
					Q2-2009	Q3-2009	Q4-2009	Jun-2009	Jul-2009	Aug-2009	Sep-2009	Oct-2009	Nov-2009	Dec-2009	Jan-2010
Country															
Australia	i	107.1	113.1	114.3	113.6	114.1	115.9	..	..	..	..	..	..	..	..
Austria	i	106.1	..	..	..	..	..	..	..	..	..	..	..	..	..
Belgium	i	104.0	106.9	109.7	109.3	110.1	110.3	..	..	..	..	..	..	..	..
Canada	i	105.1	106.9	101.6	100.8	100.7	102.0	98.7	98.4	99.8	103.9	99.8	100.6	105.6	..
Czech Republic	i	115.4	124.3	..	124.9	125.0	..	..	..	..	..	..	..	..	..
Denmark	i	107.2 (B)	110.7	113.1	114.2	113.3	113.5	..	..	113.3	..	..	113.5	..	..
Finland	i	106.3	111.4	114.0	113.6	114.1	115.3	..	..	..	..	..	..	..	..
France	i	105.7	109.0	..	111.2	111.7	..	..	..	..	..	..	..	..	..
Germany	i	103.2	106.1	..	108.1	108.2	..	..	108.2	..	..	..	..	..	..
Hungary	i	118.5	125.4	130.3	130.5	128.3	138.7	132.8	130.0	125.9	129.1	129.8	145.3	141.1	..
Ireland	i	108.3	113.5	..	115.8	..	..	..	..	..	..	..	..	..	..
Italy	i	106.2	109.8	113.4	112.9	113.4	114.6	112.9	112.9	112.9	114.2	114.5	114.5	114.8	..
Japan	i	100.9	101.0	92.9	90.9	93.3	112.0	121.6	125.8	77.5	76.7	77.3	81.8	176.9	..
Korea	i (B)	112.8	108.9	106.1	106.2	103.7	108.0	..	..	..	..	..	..	..	..
Luxembourg	i	105.7	107.0	103.1	106.9	96.5	110.4	103.5	98.6	95.6	95.4	95.1	110.4	125.8	..
Netherlands	i	103.5	107.3	110.6	110.3	111.1	111.2	110.4	111.1	111.1	111.1	111.3	111.3	111.0	111.8
New Zealand	i	108.8	113.6	..	117.2	..	..	..	..	..	..	..	..	..	..
Norway	i	110.7	117.0	..	121.2	122.3	..	..	..	..	..	..	..	..	..
Poland	i	116.0	127.3	130.5	129.5	131.6	133.3	130.4	133.4	130.5	131.0	131.3	133.4	135.1	130.0
Portugal	i	103.2	105.6	100.2	97.1	100.6	109.6	101.6	110.9	98.9	92.1	91.7	112.7	124.5	..
Slovak Republic	i	113.7	122.4	125.1	123.7	123.4	134.2	128.8	124.8	121.4	124.0	124.2	143.5	134.9	..
Spain	i	108.7	113.9	..	117.0	126.1	..	..	..	..	..	..	..	..	..
Sweden	i	106.8	111.1	..	113.9	113.0	..	113.6	113.5	112.6	113.1	113.7	114.1	..	..
Turkey	i	121.5	135.2	..	145.0	151.0	..	..	..	..	..	..	..	..	..
United Kingdom	i	108.9	112.0	..	113.2	112.2	..	112.8	112.2	111.8	112.7	113.4	114.7	..	..
United States	i	104.3	107.2	110.1	109.6	110.5	111.1	109.6	110.0	110.3	111.3	110.7	111.1	111.5	111.8
European Union	i	107.2	112.4	..	..	..	..	..	..	..	..	..	..	..	..
Euro area	i	106.1	110.5	..	..	..	..	..	..	..	..	..	..	..	..

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Dynamic Graphics for Presenting Statistical Indicators



Dynamic Graphics for Presenting Statistical Indicators

5 - 6 March 2007, ISTAT office - Rome, Italy

In recent years focus has been on the use of indicators in discussions of international forums, such as the OECD World Forum. Several statistical and analytical organisations are increasingly seeing it as important to present statistical indicators on key societal phenomena to a number of different audiences.

The seminar is about the art of making statistical indicators understandable and appealing to modern audiences. Leading-Edge products will be showcased. A review of technical solutions (XML plug-in, Java, SVG, Flash...) will be made and participants will have the opportunity to participate to discussions on how to select, develop and implement dynamic graphics (purpose, strategy, tailored tools or off-the-shelf...)

The purpose of the seminar is to see if good practices can be identified and recommendations can be made, allowing organisations to advance in this important field.



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[United Nations](#)



[The World Bank](#)



Measuring the Progress of Societies World Forum on Statistics, Knowledge and Policy

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Seminar on Innovative Approaches to Turning Statistics into Knowledge, 26-27 May 2008, Stockholm

Send Print



Statistiska centralbyrån
Statistics Sweden

Participation/Registration

Participants' list

Programme

Organisers

Accommodation

Travel information

Bookmark this page at www.oecd.org/oecdworldforum/statknowledge

Venue

The seminar is hosted by Statistics Sweden and is arranged jointly by Statistics Sweden and the OECD. It will be held on 26-27 May 2008 in [Berns Salonger](#), Stockholm, Sweden.

Format

The seminar will take place over two days in plenum, with no parallel sessions. There will be around 20 presentations, and discussants will be allocated to the sessions. A few panels may be organised. The conference will be video recorded, allowing other interested parties to watch it later on the seminar website.

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- > The Istanbul Webcast
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Angel Gurría, >> Secretary-General of the OECD

"Measuring whether life is getting better is one of the most important roles the OECD can take on".

Mamphela Ramphela, Co- >> chair, Global Commission on International Migration (GCIM)

"The measurement of anything that is of importance elevates its importance".

Kemal Dervis, Administrator of >> the United Nations Development Programme, UNDP



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Statistics Database



Release Calendars

Most popular database tables

- > GDP per capita in PPS
- > Real GDP growth rate
- > Total population
- > Unemployment rate
- > Employment rate
- > Inflation (monthly)
- > Inflation rate (annual)

Selected Statistics

- > Structural indicators
- > Euroindicators/PSEIs
- > Sustainable development indicators
- > Government finance
- > Prices (HICP)

Selected Publications

- > Eurostat Yearbook
- > European Business
- > Regional Yearbook



Combating poverty and social exclusion

Latest news releases

Press centre | RSS



€	03.03.2010	Volume of retail trade down by 0.3% in both euro area and EU27
€	02.03.2010	Industrial producer prices up by 0.7% in euro area
€	02.03.2010	Euro area inflation estimated at 0.9%
€	01.03.2010	Euro area unemployment rate at 9.9%
	01.03.2010	Organic area up by 21% in the EU between 2005 and 2008
€	26.02.2010	Euro area annual inflation up to 1.0%
€	24.02.2010	Industrial new orders up by 0.8% in euro area

Full list

Statistics in focus | Data in focus

RSS



D	03.03.2010	Harmonized indices of consumer prices – January 2010 - Issue number 5/2010
S	01.03.2010	Area under organic farming increased by 7.4% between 2007 and 2008 in the EU-27 - Issue number 10/2010
D	22.02.2010	Tourism in Europe: first results for 2009 - Issue number 4/2010
S	19.02.2010	17 % of EU citizens were at-risk-of-poverty in 2008 - Issue number 9/2010
S	09.02.2010	General economic crisis hits European port activity - Issue number 11/2010
S	04.02.2010	Pig farming in the EU, a changing sector - Issue number 8/2010
S	04.02.2010	The EU-27 construction sector: from boom to gloom - Issue number 7/2010

Full list

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Your guide to European statistics



Country profiles



Business Cycle Clock



In the spotlight



- > Report on Greek government deficit and debt statistics

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Data Navigation Tree



Database by themes

- + General and regional statistics
- + Economy and finance
- + Population and social conditions
- + Industry, trade and services
- + Agriculture, forestry and fisheries
- + External Trade
- + Transport
- + Environment and energy
- + Science and technology



Tables by themes (new codes.xls)

- + General and regional statistics
- + Economy and finance
- + Population and social conditions
- + Industry, trade and services
- + Agriculture, forestry and fisheries
- + External Trade
- + Transport
- + Environment and energy
- + Science and technology



Tables on EU policy

- + Short-term indicators (Short-term indicators: old /new codification)
- + Structural indicators (new codes.xls)
- + Sustainable Development

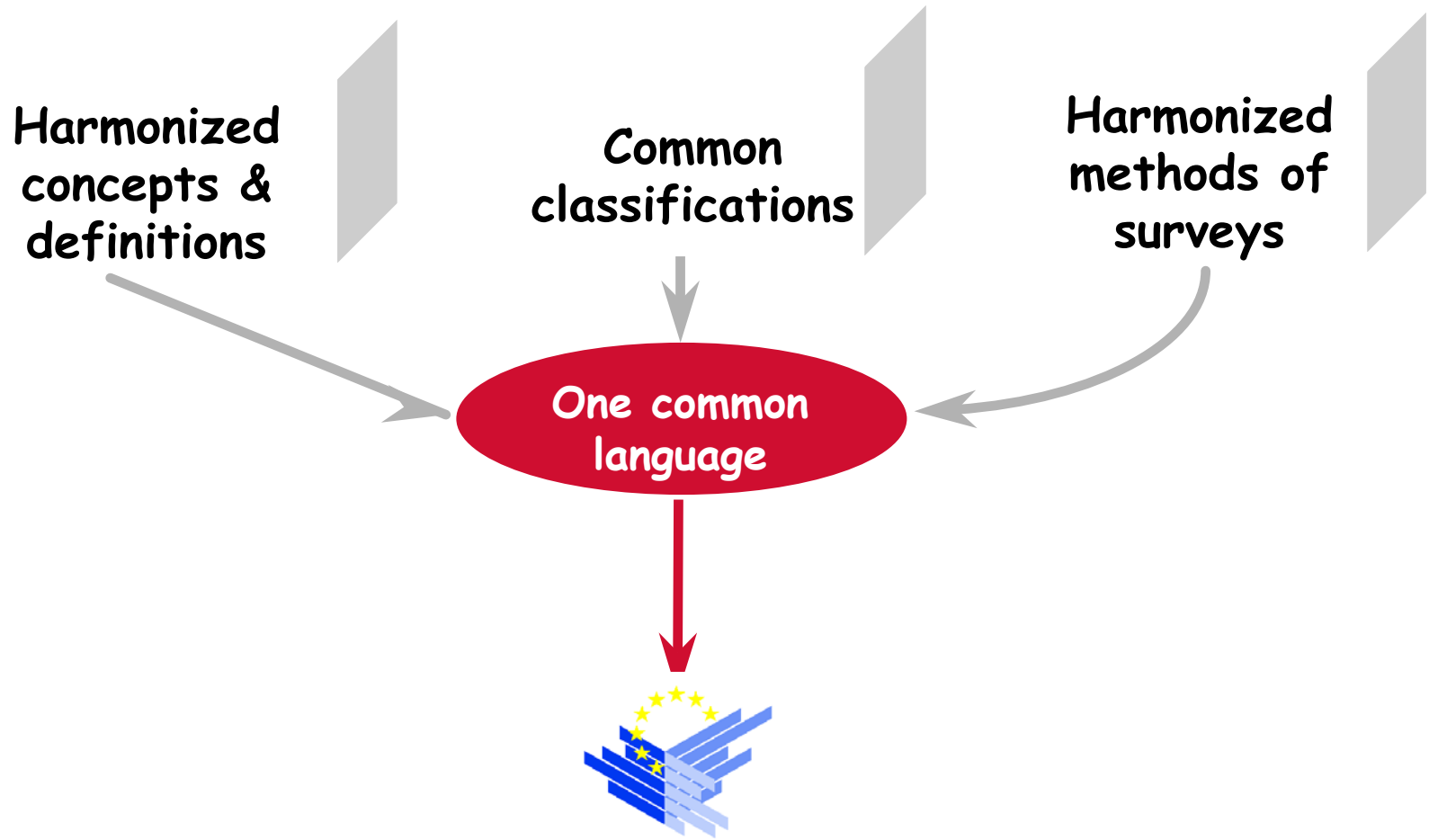


New Items (sorted by code) New



Recently Updated Items (sorted by code) Updated

To construct the European Statistical System



European Statistical System

Data Mining on the Internet

- [Statistics Sweden – Database](#)
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Hur överför vi statistik till kunskaper?

1. Mikrodata

Registerstatistik

– administrativa data för statistiska syften

Befolknings-
registret

Kontrolluppgift från arbetsgivare m.fl. **KU10**
för inkomståret 2004

Uppgiftslämnarens namn och postadress		Inkomsttagarens person-organisationsnr	
Uppgiftslämnarens person-organisationsnr		Förskatalsnr	
Famledatum om rätt till uppgift sänds ut (ex. 05/03/01)		Inkomsttagarens fullständiga namn och postadress	
Delägare m.fl. i färdigt företag			
Arbetslöshetsnummer från SCB			
Skatt		Förmåner m.m.	
Avdragen A-skatt		41 Bostad 42 43 Bostad 44	
Tjänst		45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00	
Kontant lön m.m.		Kod för förmånsbil	
03 Kontant bruttolön m.m.			

Företags-
registret

Exempel på källa:

Registerstatistik

– administrativa data för statistiska syften

Befolkningsregistret

Kontrolluppgift från arbetsgivare m.fl. KU10
för inkomståret 2004

Uppgiftslämnarens namn och postadress

Uppgiftslämnarens person-/organisationsnr

Ramförsädrum om rätt till uppgift sänds åt (ex. 05/0301)

Delägare m.fl. i färdigskapat företag

Arbetslöshetsnummer från SCB

Skatt

Avdragen A-skatt

Tjänst

Kontant lön m.m.

03 Kontant bruttolön m.m.

Inkomsttagarens person-/organisationsnr

Inkomsttagarens fullständiga namn och postadress

Förmåner m.m.

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42 Kost
43 Bostad
44 Förtäring
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99 Förtäring
00 Förtäring

Företagsregistret

Pnr	Födelseår	Kön	Födelse land	Displnk90	Forvlnk90	SyssStat90	Displnk91	Forvlnk91	SyssStat91
1	1948	1	8	704	0		6	842	0
2	1981	2	1	1245	814		1	1364	19
3	1974	2	1	1051	0		6	1013	0
4	1985	2	10	975	633		1	1099	679
5	1978	2	1	767	151		5	760	151
6	1979	1	1	399	0		6	475	0
7	1974	1	1	1062	799		1	1366	892
8	1978	1	1	569	9		5	648	6
9	1983	1	1	655	0		6	702	0
10	1966	2	1	742	829		1	833	576
11	1985	1	1	895	1274		1	1027	1430
12	1935	1	1	577	0		6	668	0
13	1963	1	26	565	0		6	698	0
14	1972	2	1	762	238		1	1106	97
15	1980	1	1	1418	15		5	1967	16
16	1977	1	1	983	18		5	1063	10
17	1977	2	1	460	0		6	503	0
18	1968	2	1	626	0		6	685	0
19	1958	1	9	751	0		6	916	0
20	1979	1	1	642	0		6	778	0
21	1947	2	1	540	315		1	652	87
22	1982	2	1	946	0		6	859	0
23	1984	1	1	704	0		6	912	0
24	1970	1	1	207	208		1	210	167
25	1920	1	1	688	0		6	745	0
26	1924	1	1	731	0		6	762	0

Hur överför vi statistik till kunskaper?

1. Mikrodata

2. Tabeller som redovisar fakta

Folkmängd efter kön, civilstånd och ålder i ettårsklasser den 31 december 2004

Population by sex, civil status and age by single years

Ålder Age	Ogifta Single		Giftn ¹ Married ¹		Änklingar, änkor ² Widowed ²		Skilda ³ Divorced ²		Hela antalet Total	Levande födda Live births	
	Män Men	Kvinnor Women	Män	Kvinnor	Män	Kvinnor	Män	Kvinnor		År Year	Antal Number
25	50 915	45 208	3 248	6 834	3	9	285	749	107 251	1979	96 255
26	48 639	42 364	4 191	8 225	4	14	394	959	104 790	1978	93 248
27	48 415	41 168	5 885	10 306	3	20	521	1 177	107 495	1977	96 057
28	47 885	39 710	7 630	12 892	8	29	731	1 490	110 375	1976	98 345
29	47 954	39 114	9 953	15 801	10	42	999	1 935	115 808	1975	103 632
30	47 621	37 973	13 094	19 387	17	48	1 260	2 500	121 900	1974	109 874
31	44 485	34 904	15 479	21 824	18	44	1 589	2 894	121 237	1973	109 663
32	42 606	32 990	18 205	24 225	14	74	1 953	3 500	123 567	1972	112 273
33	40 645	31 084	20 445	25 952	23	105	2 382	4 060	124 696	1971	114 484
34	36 995	28 175	21 455	26 906	28	104	2 934	4 640	121 237	1970	110 150
35	34 587	26 192	23 271	27 319	39	127	3 432	5 390	120 357	1969	107 622
36	34 601	26 354	25 407	29 275	37	166	4 106	6 328	126 274	1968	113 087
37	35 218	26 626	28 113	31 146	70	202	5 044	7 211	133 630	1967	121 360
38	34 238	25 600	29 170	32 154	83	221	5 772	7 927	135 165	1966	123 354
39	32 556	24 242	30 447	32 643	76	293	6 480	8 989	135 726	1965	122 806

Hur överför vi statistik till kunskaper?

1. Mikrodata

2. Tabeller som redovisar fakta

3. Tabeller som visar mönster

Medellön efter utbildning och kön
Tusentals kronor per månad

Utbildning	Kön	
	Kvinnor	Män
Grundskola	19.2	22.3
Gymnasium	20.1	24.1
Högskola	26.3	34.8

Hur överför vi statistik till kunskaper?

1. Mikrodata

2. Tabeller som redovisar fakta

3. Tabeller som visar mönster

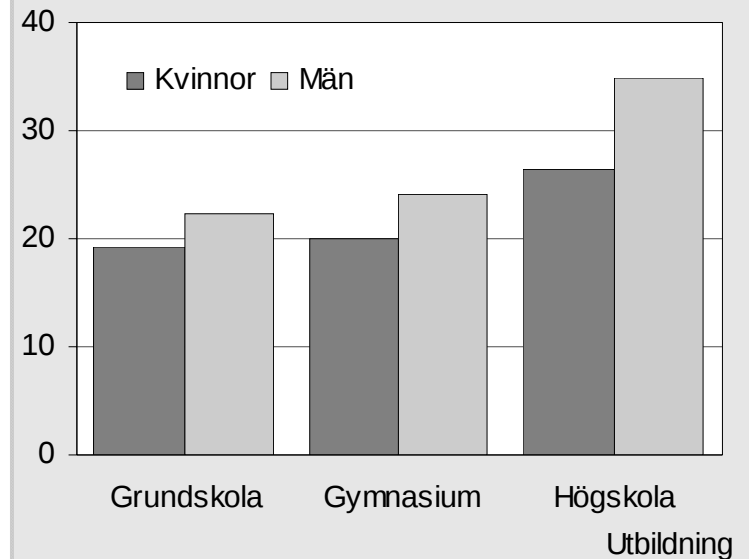
4. Diagram som visar mönster

Medellön efter utbildning och kön
Tusentals kronor per månad

Utbildning	Kön	
	Kvinnor	Män
Grundskola	19.2	22.3
Gymnasium	20.1	24.1
Högskola	26.3	34.8

Bild 5. Medellön efter kön och utbildning 2005

Tusentals kronor per månad

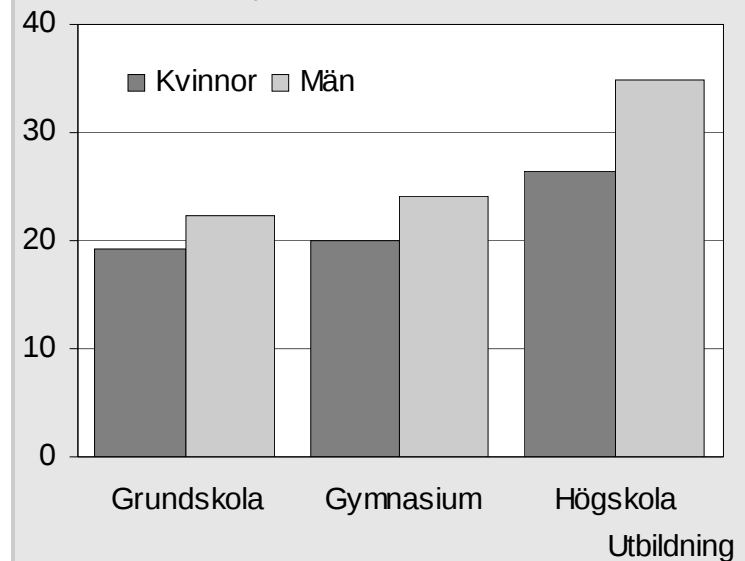


Medellön efter utbildning och kön
Tusentals kronor per månad

Utbildning	Kön	
	Kvinnor	Män
Grundskola	19.2	22.3
Gymnasium	20.1	24.1
Högskola	26.3	34.8

Bild 5. Medellön efter kön och utbildning 2005

Tusentals kronor per månad



Detta är statistisk grafik – mönster i data visualiseras

Stillbilder: Diagram Rörliga bilder: Animeringar

Syfte: Att överföra statistik till kunskaper

– Statistik metodik för detta?

– Statistisk kvalitet?

Hur överför vi statistik till kunskaper?

- Statistik metodik för detta?

Det finns etablerad metodik – men hur många känner till metodiken?

- Statistisk kvalitet?

Hur överför vi statistik till kunskaper?

– Statistik metodik för detta?

Darrel Huff: Hur man ljugar med statistik

Diagram viktigt, du får inte ljuga!

Edward Tufte: The Visual Display of Quantitative Information

Ingenting får störa, ta bort allt onödigt:

"Above all else show the data!"

William Cleveland: The Elements of Graphing Data

Perception, vad uppfattar ögat? Trellis Displays (multivariat)

"Make the data stand out!"

Wallgren et al: Statistikens bilder

Bygger på Tuftes och Clevelands principer

Datamaterialets (tabellens) struktur avgör val av diagramtyp

Hur överför vi statistik till kunskaper?

– Statistisk kvalitet?

Datamaterialets
kvalitet

Analysens
kvalitet

Presentationens
kvalitet

Tre arbetsmoment när man skapar diagram:

1. Arbetet med att välja och analysera data
Hitta intressanta mönster, diagrammets budskap
2. Val av diagramtyp
Datamaterialets struktur avgör
3. Arbetet med att utforma diagrammets byggstenar
de linjer, ytor och texter som bygger upp ett diagram

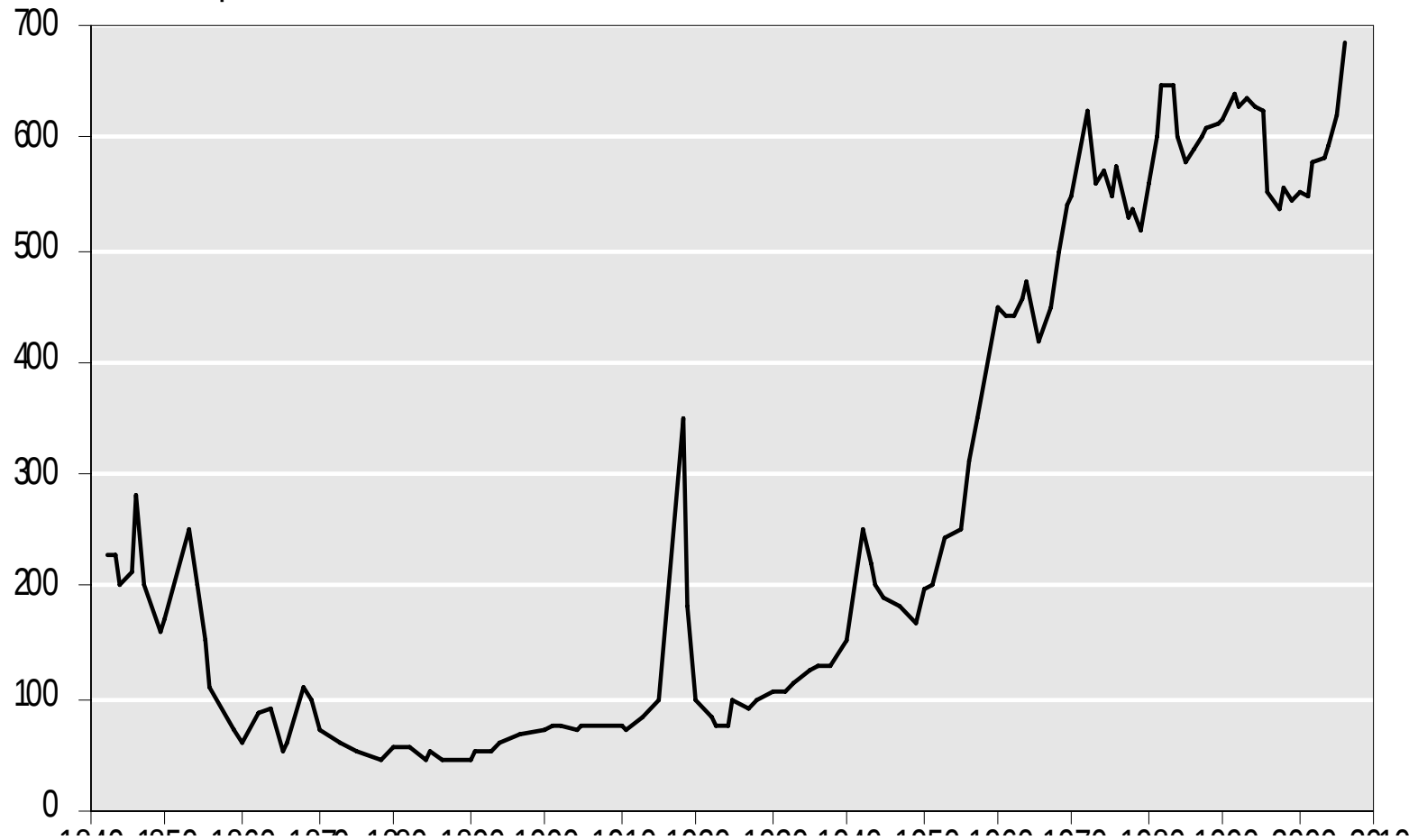
Exempel:

*"Det var bättre förr, samhället förråas
alltmer."*

Exempel:

Bild 1. Dömda för grövre brott i Sverige 1842–2005

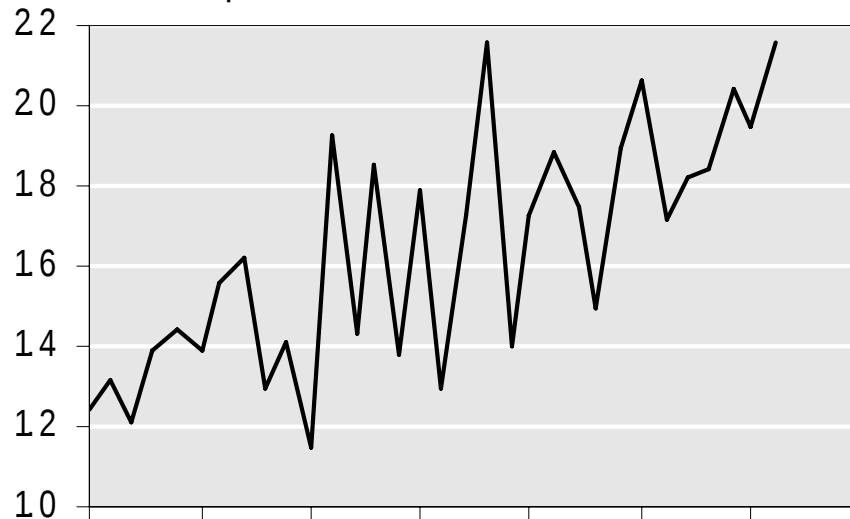
Antal dömda per 100 000 invånare 15 år och äldre



Exempel:

Bild 2. Dömda för mord och dråp i Sverige

Antal dömda per 100 000 invånare 15 år och äldre



Exempel:

Bild 3. Döda genom mord eller dråp i Sverige och USA

Antal döda per 100 000 invånare och år

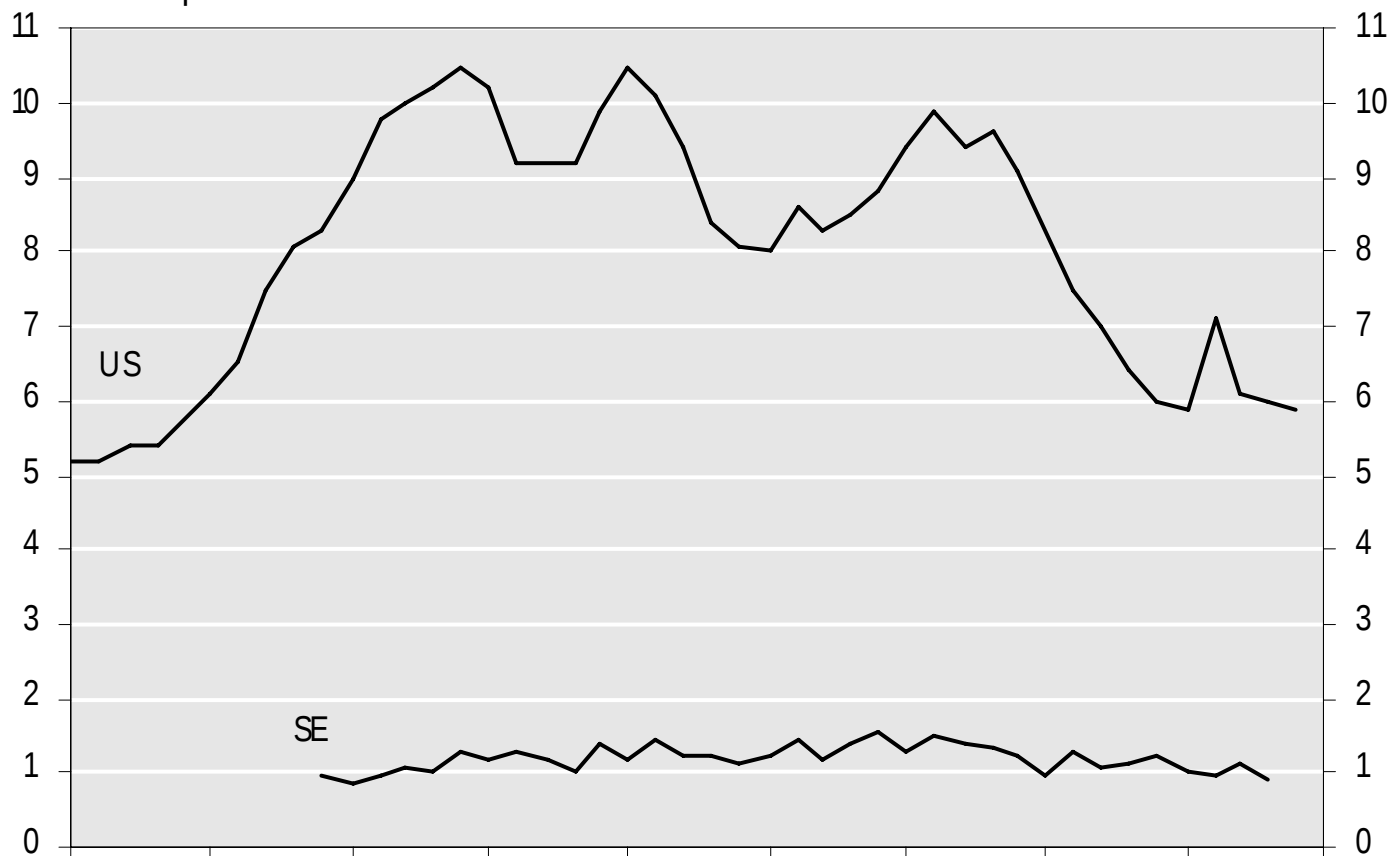
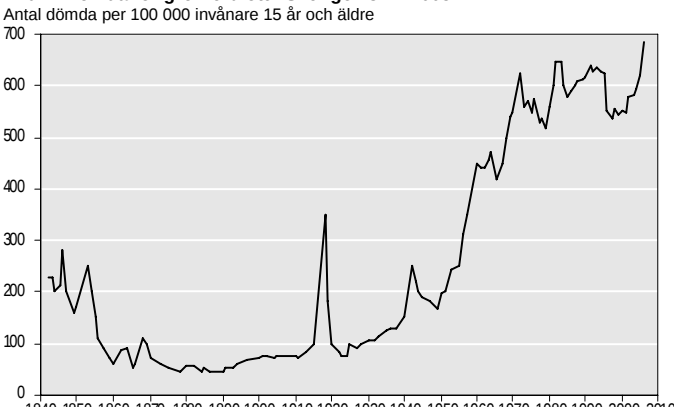


Bild 1. Dömda för grövre brott i Sverige 1842–2005



Tre diagram med helt olika budskap!

Visar betydelsen av arbetet med att välja data och datamaterialets kvalitet:

Bild 1: Jämförbarhet dålig

Bild 2: Flera möjliga orsaker blandas samman - blir polisen duktigare eller blir Sverige värre? Dålig kvalitet

Bild 3. Döda genom mord eller dråp i Sverige och USA

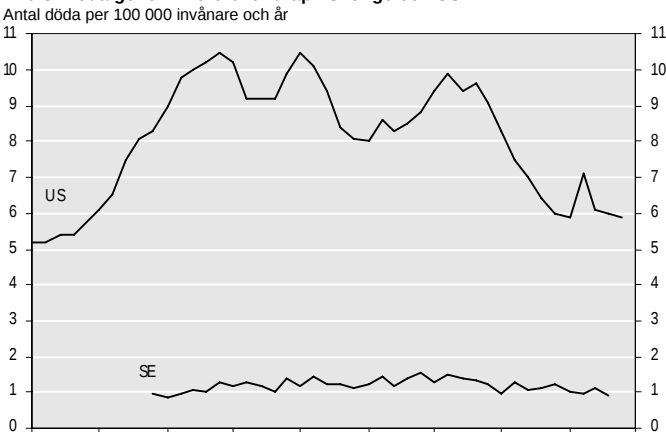


Bild 3: Bäst kvalitet – intressant att jämföra SE - US

Datamaterialets struktur avgör diagramtyp:

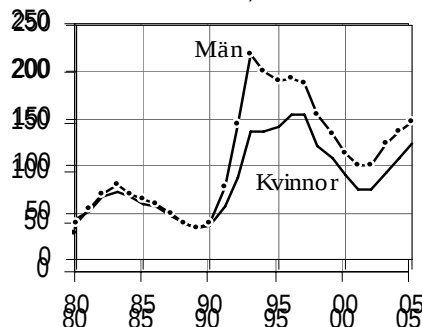
Tidsseriedata

Tvärsnittsdata

Geografiska

Bild 1. Linjediagram

Arbetslösa efter kön, 1000-tal



**Envägsindelad annan tabell – del 2
län med minskning**

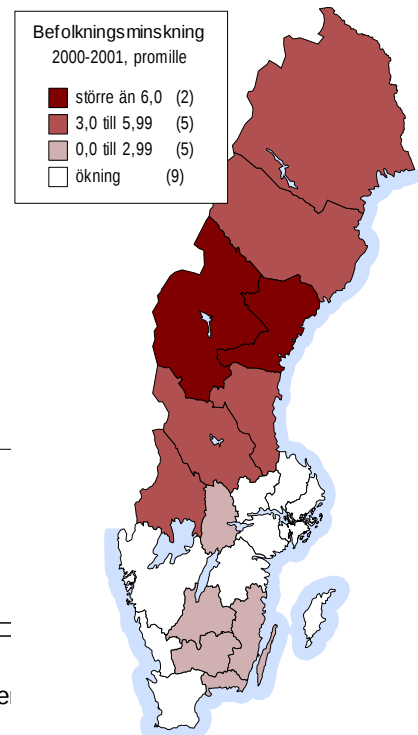
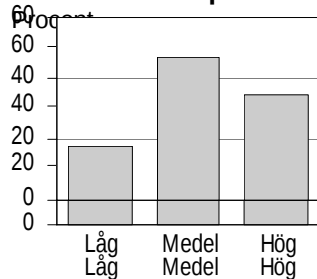
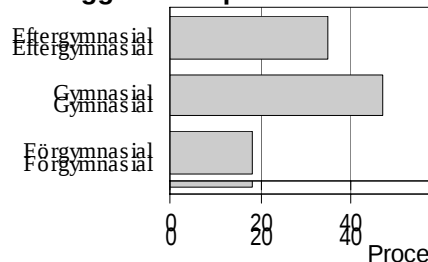


Bild 7b – 7e. Befolkningen 25–64 år efter utbildningsnivå

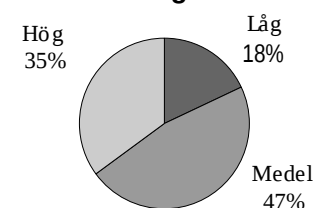
7b. Stående staplar



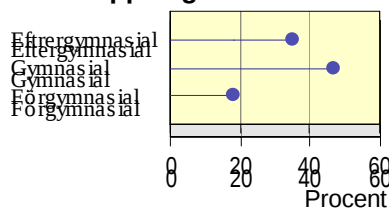
7c. Liggande staplar



7d. Cirkeldiagram



7e. Knoppdiagram



Diagrammets byggstenar: Att utforma de linjer, ytor och texter som bygger upp ett diagram

Bild 7. Andel arbetslösa män av arbetskraften inom olika åldersklasser, 1993–2006.

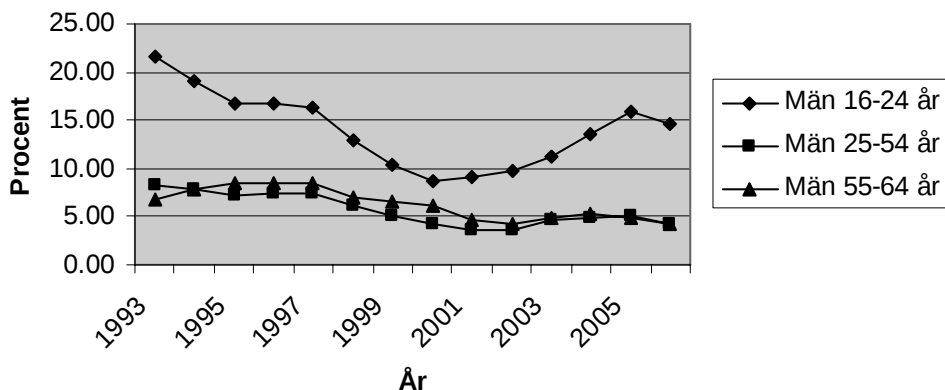


Bild 8. Andel arbetslösa män efter ålder

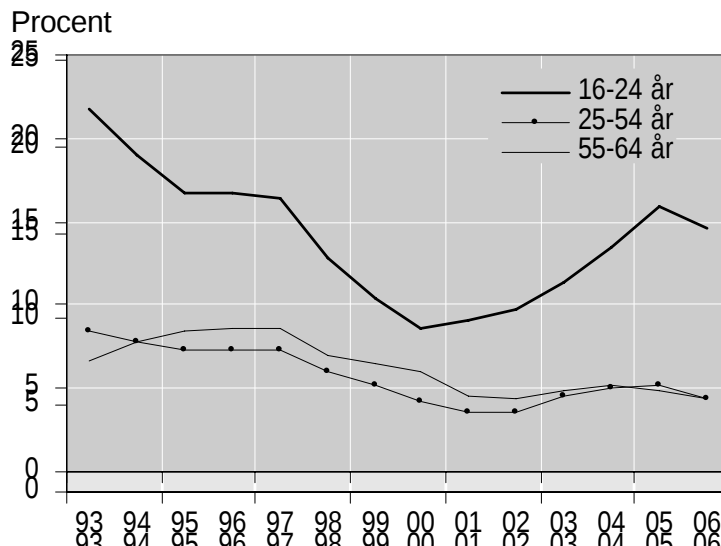


Bild 22a. Diagram i vanlig skala

Världens befolkning, miljoner

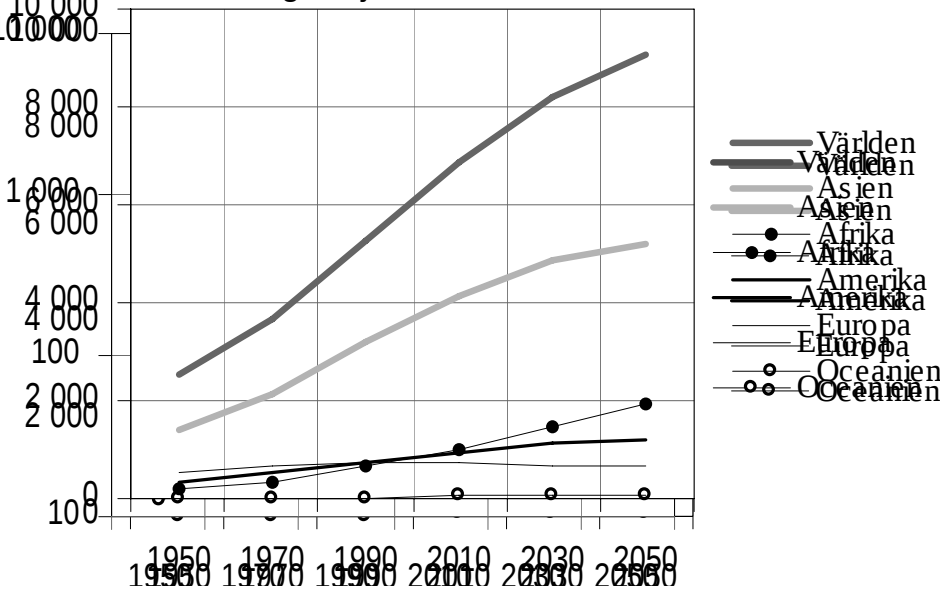


Bild 22c. Indexdiagram

Världens befolkning, index 1950=100

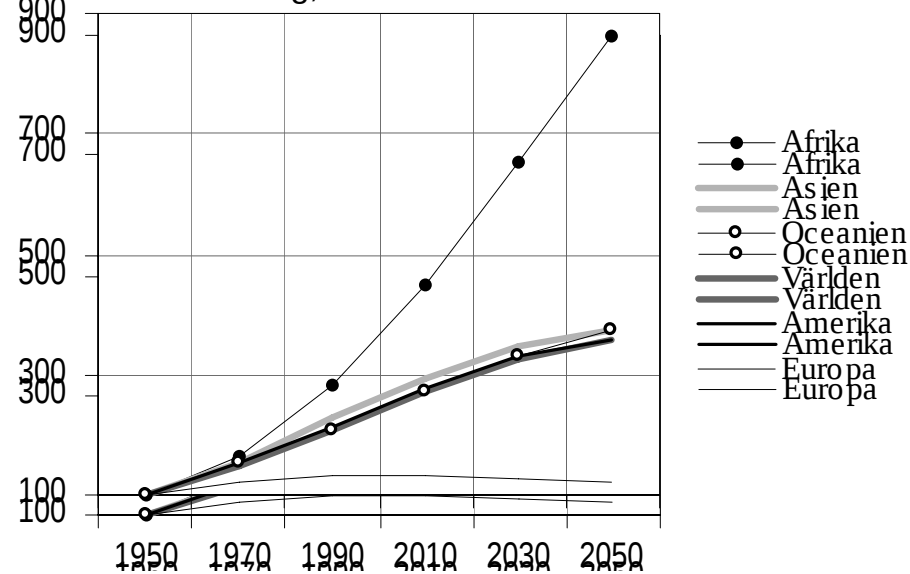
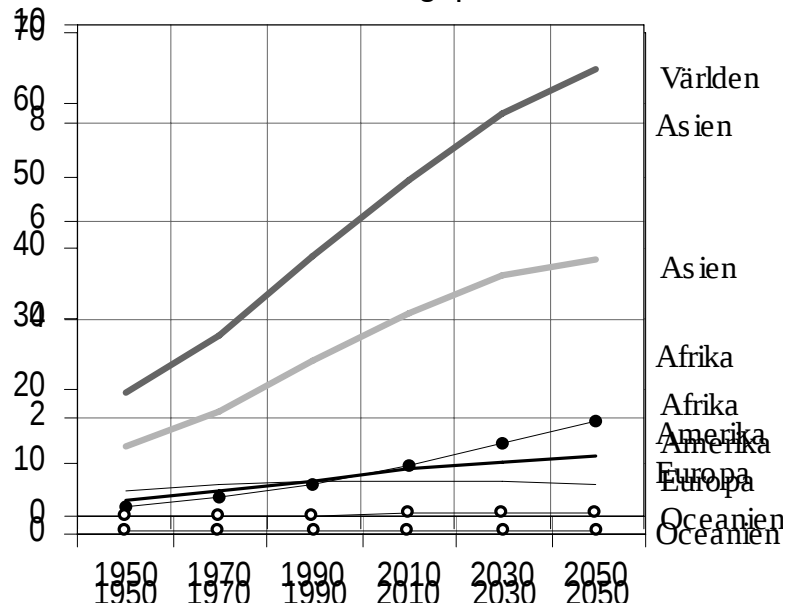


Bild 24c. Linjediagram med andelar

Andel av världens befolkning, procent



Gör flera diagram för samma datamaterial:

Det kan finnas flera mönster att illustrera

Mer och bättre analys!

Diagram utan budskap

Bild 17. Andel arbetslösa 2006 för olika åldersgrupper

Procent

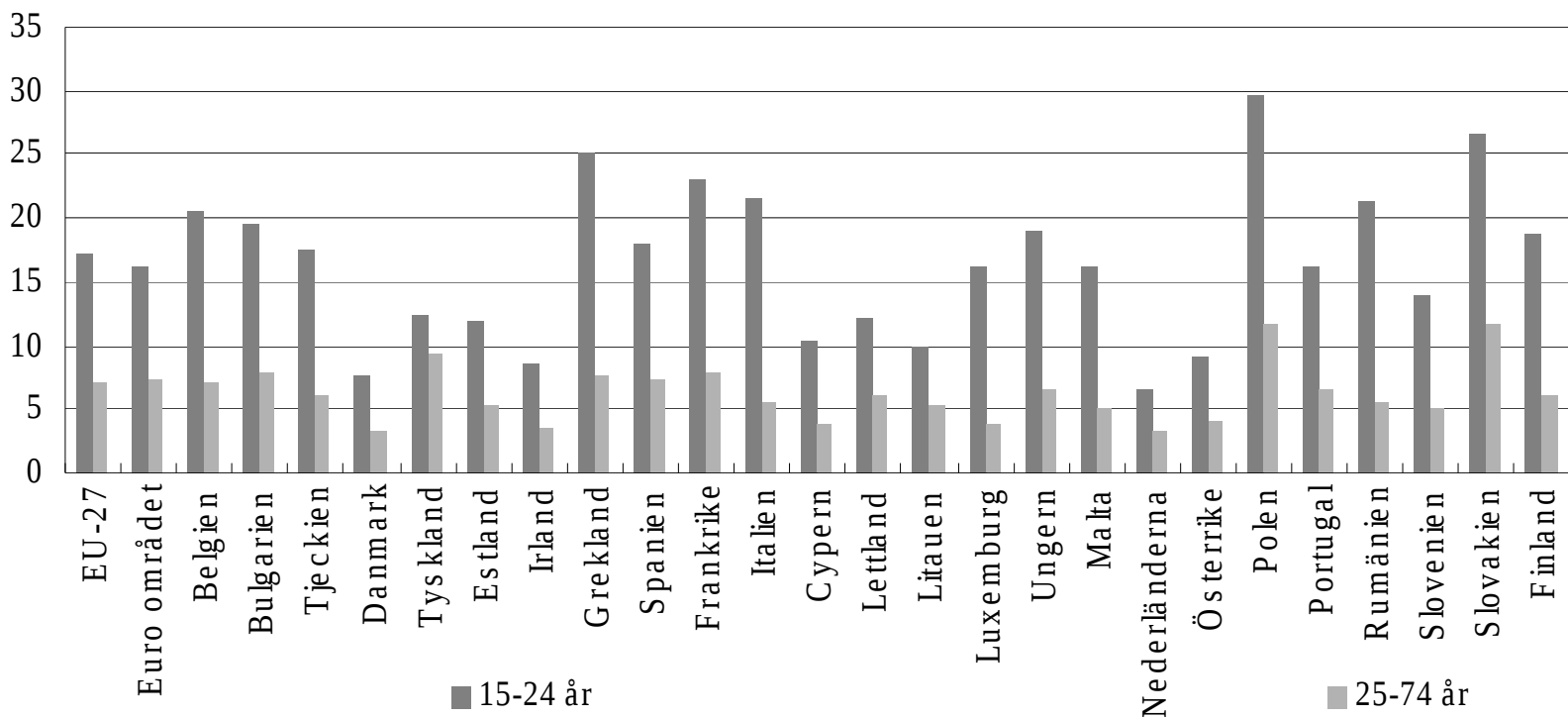
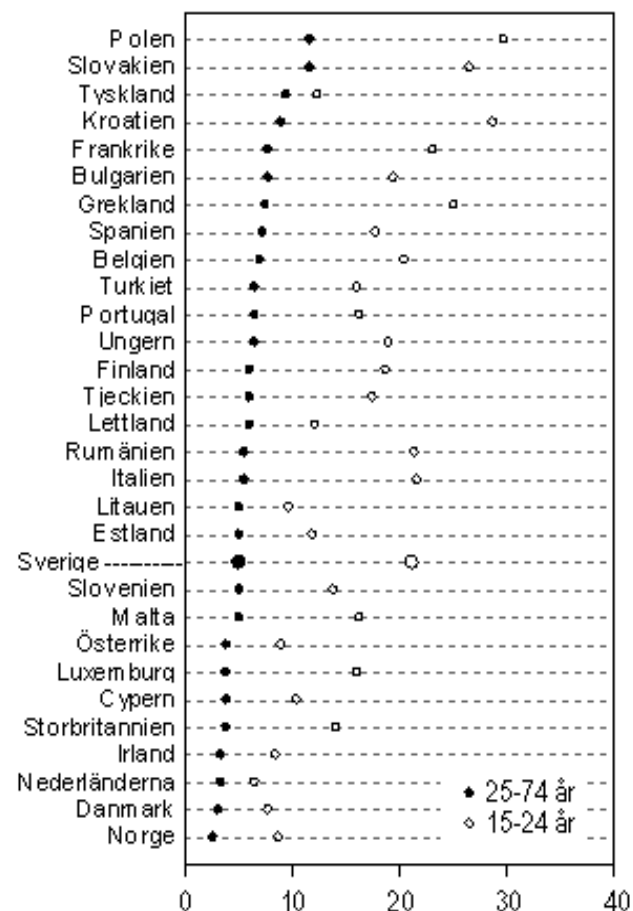


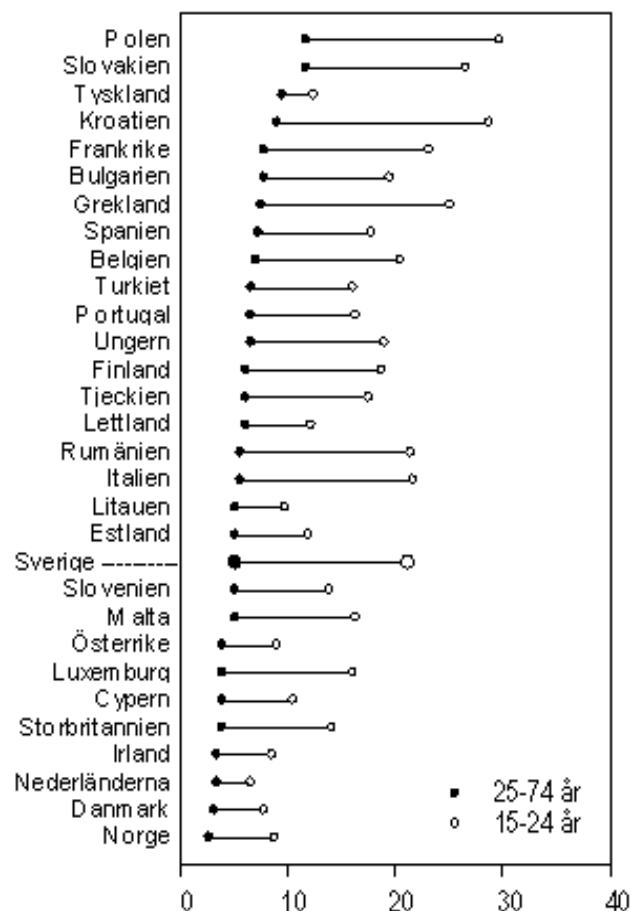
Diagram med budskap

Bild 18. Varför är den svenska ungdomsarbetslösheten så hög?

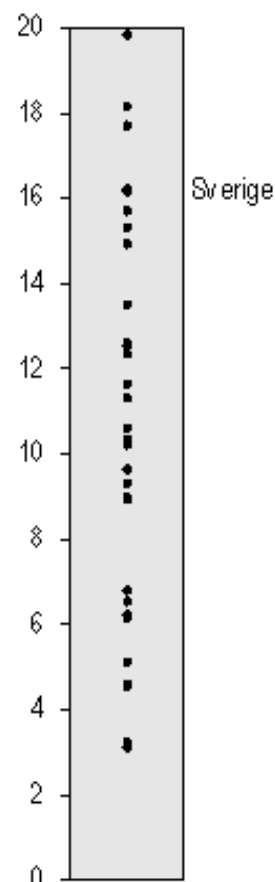
18a. Sverige: Låg vuxenarbetslöshet, men hög ungdomsarbetslöshet!
Andel arbetslösa 2006
Procent



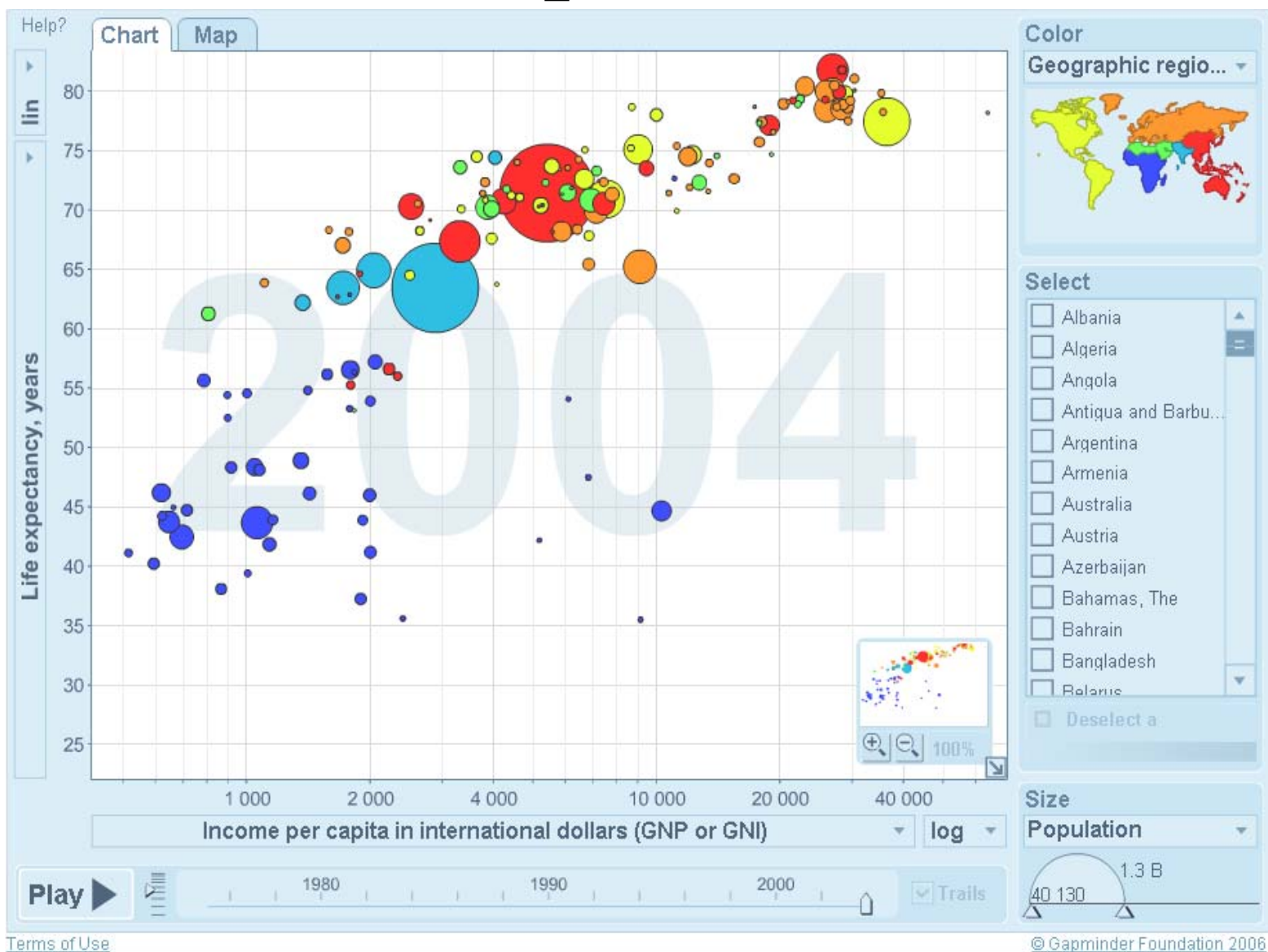
18b. Sverige: Bland de största skillnaderna bland länderna i Europa!
Andel arbetslösa 2006
Procent



18c. Sverige på fjärde plats!
Unga - vuxna
Procentenheter



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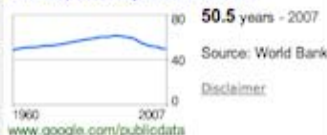
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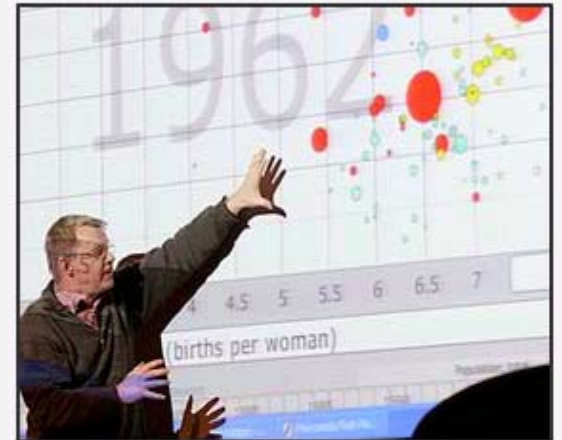
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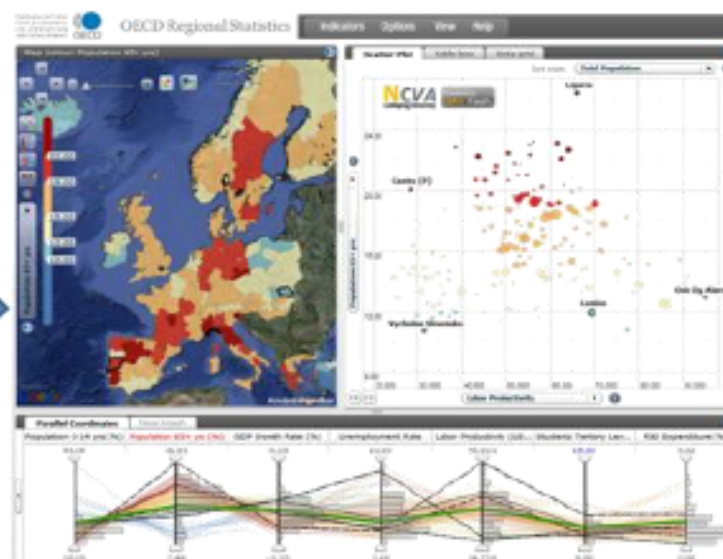
Hans Rosling: Asia's rise – how and when (TEDIndia)

Posted November 23, 2009



TED and Reddit's 10 questions to Hans Rosling

Posted September 11, 2009

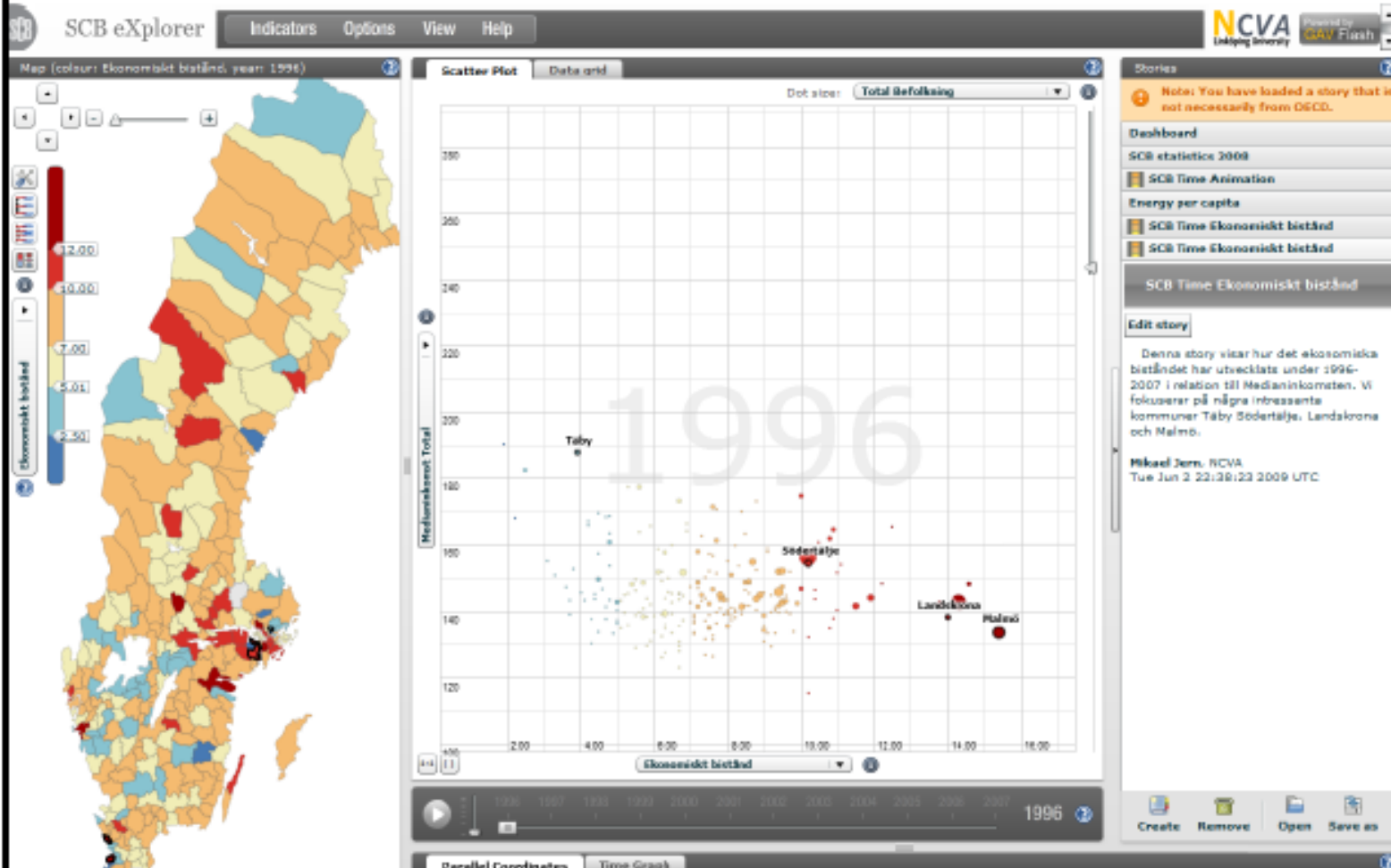


Regional statistik från Europa till en kommun i Sverige

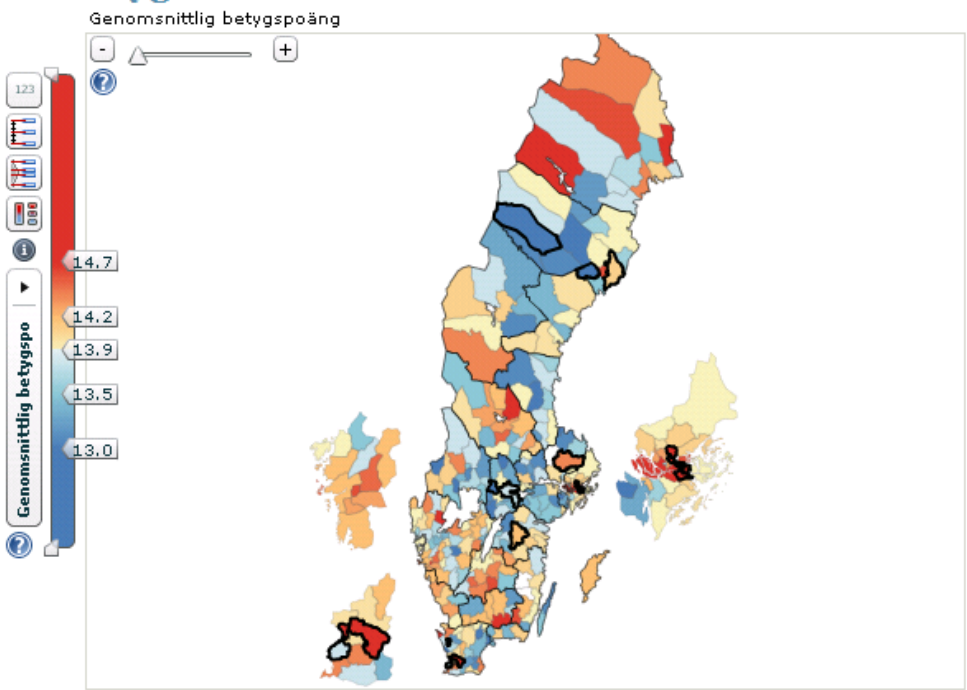
Från statistiska rapporter till Interaktiva Dokument

PROFESSOR MIKAEL JERN NCVA

SCB eXplorer

http://www.scb.se/Pages/List_261736.aspx


skl betygsnivåer

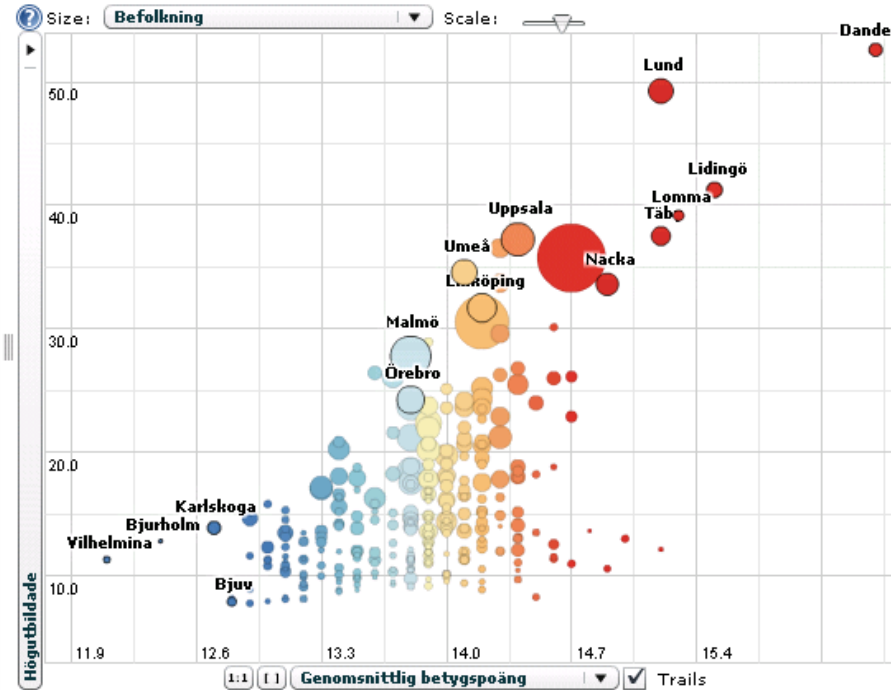


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Genomsnittliga betygspoäng för Sveriges Kommuner

Genomsnittliga betygspoäng och högutbildade by Mikael Jern, NCVA

Statistik från SKL databas. Kartan visar "genomsnittlig betygspoäng" och i korrelationsdiagrammet korreleras denna indikator med "högutbildade". Kommuner med låga betygspoäng och låg andel högutbildade är inte oväntat starkt korrelerade medan motsvarigheten och gäller för höga värden. Speciellt visar Danderyd, Lund, Lidingö, Lomma på kommuner med duktiga studenter. Om du klickar här "[högutbildade](#)" så byts indikator i kartan. Detta [korrelationsdiagram](#) visar "genomsnittlig betygspoäng" mot "behörighet till gymnasieskolan". Du kan nu själv fortsätta analysera de indikatorer som är laddade. På färglegenden hittar du också två filtreringsknappar. Drar du i den längst ner uppåt så filtrerar kommuner med låga värden bort.



DATA BLOG

Facts are sacred

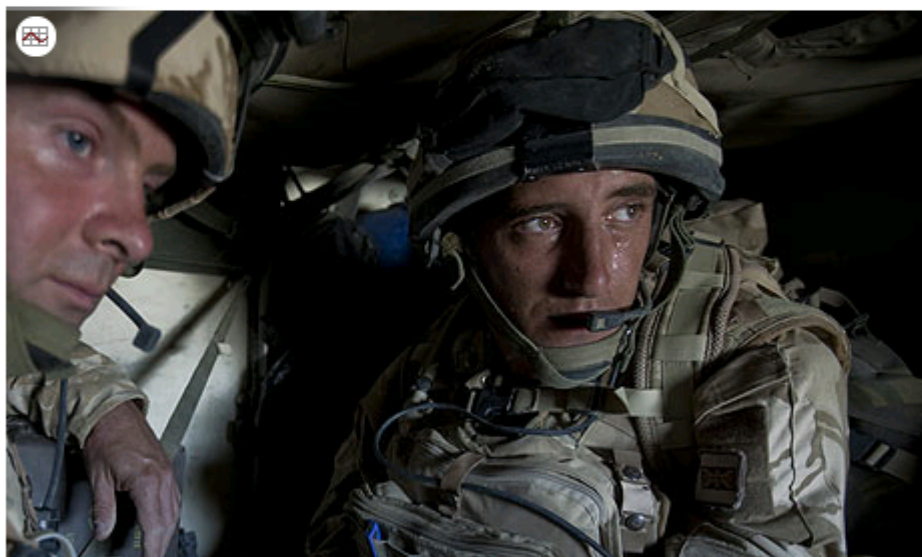


Monday 8 February 2010

British dead and wounded in Afghanistan, month by month



Posted by
Simon Rogers
15.10 GMT



B company of the Black Watch in the back of a Viking vehicle Photograph: Sean Smith

What is the human cost of the war in Afghanistan for British forces? As British troops suffer more losses in 2010, these are the latest figures - including new wounded statistics

 [Replay](#)

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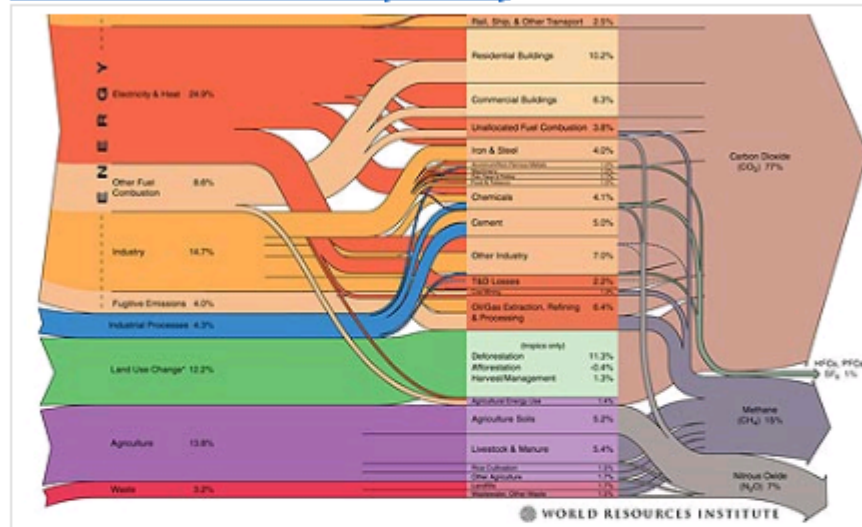
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[Datablog – News – guardian.co.uk](#)

Posted on [August 15, 2009](#) by [Alf Fyhrhund](#) | [Edit](#)

- [World carbon emissions, by country](#)



Click on image for big picture Image: World Resources Institute

Datablog Full figures, for every country in the world

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Posted by [Simon Rogers](#) 15.15 BST

- [US emissions, compared to the world's](#)

Roll over lines to get the data. How bad are US carbon emissions? These figures give us an indication. [Continue reading...](#)

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Välkommen!

DN.factlab är ett komplett labb för att enkelt hitta, sammanställa och bearbeta hundratals typer av samhällsfakta från tusentals publika källor över hela världen. I DN.factlab kan du analysera dessa fakta på många olika sätt – från enkla rankingslistor till avancerade jämförelser, tidsserier och trendstudier utifrån kriterier som du själv anger. [Läs mer](#)

VÄLKOMMEN TILL DN.factlab. VÄLJ VAD DU VILL TA REDA PÅ:

1 VAR? ☒ VÄRLDENS LÄNDER ☐ SVERIGES KOMMUNER

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Är det möjligt

...att det skilljer 62 betygsmedelpoäng mellan bästa och sämsta kommun men i favör för tjejer i båda fallen?

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Skytten var bekant med svenskarna

En kommission är på väg för att utreda attackerna.

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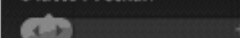
I skolan

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Vad kostar dina småvanor?

0 latte i veckan





Journalism Needs Data in 21st Century

Written by [Guest Author](#) / August 5, 2009 2:00 AM / [12 Comments](#)

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Journalism has always been about reporting facts and assertions and making sense of world affairs. No news there. But as we move further into the 21st century, we will have to increasingly rely on "data" to feed our stories, to the point that "data-driven reporting" becomes second nature to journalists.

The shift from facts to data is subtle and makes perfect sense. You could say data *are* facts, with the difference that they can be computed, analyzed, and made use of in a more abstract way, especially by a computer.

The New York Times
Tuesday, February 9, 2010

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Top Technology News

As Data Flows In, the Dollars Flow Out

By JENNA WORTHAM



Pogue's Posts

The latest in technology from David Pogue.

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Multimedia

Tech Talk Podcast

Nick Bilton on corraling all that Web content; the tech term

“content aggregator;” upgrading from a 32-bit to a 64-bit OS; and new calls for the demise of Internet Explorer 6.

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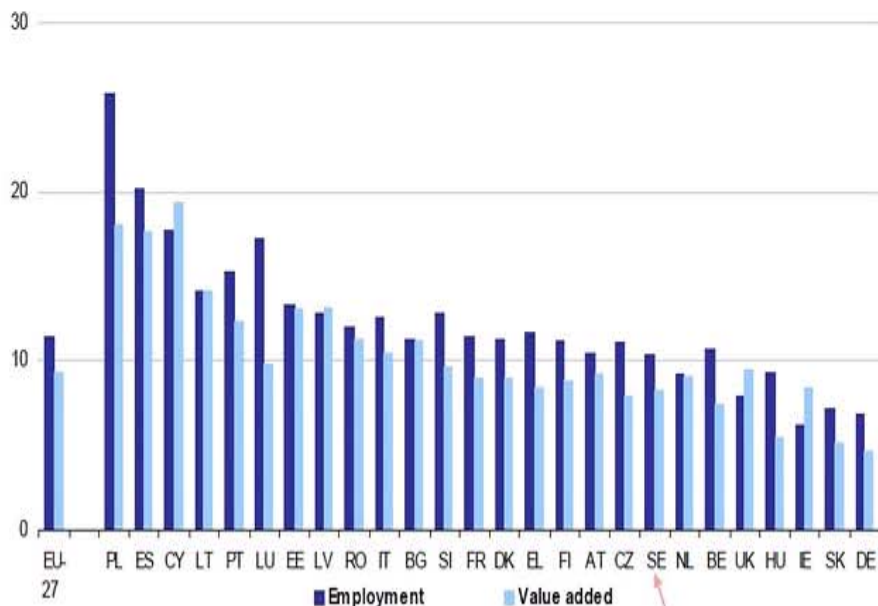
Friday, February 5, 2010

Construction in Sweden slightly below EU-27 average

From: [The EU-27 construction sector: from boom to gloom](#)

Construction activities in the EU-27, as recorded by NACE Rev. 1.1 Section F, provided employment to an estimated 14.8 million persons in 2007 (some 11.5 % of the non-financial business economy workforce), while generating an estimated EUR 562 billion of value added (9.3 % of the non-financial business economy's total value added).

Figure 2: Value added and employment in construction, Member States, 2007 (1)
(% share in the non-financial business economy)



(1) EU-27 estimates; Poland, provisional; Greece, 2006; Malta, not available.

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The longest winter I've witnessed. This should

FiveThirtyEight

Politics Done Right

2010 SENATE RANKINGS

1	North Dakota	▲	Open
2	Arkansas	▲	Lincoln
3	Nevada	▲	Reid
4	Pennsylvania	▲	Specter
5	Colorado	▲	Bennet
6	Delaware		Open
7	Illinois	▲	Open
8	Missouri	▼	Open
9	Indiana	▲	Bayh
10	Ohio	▼	Open
11	New Hampshire		Open
12	Kentucky	▼	Open
13	California	▲	Boxer
14	Florida		Open
15	Wisconsin		Feingold

5.08.2009

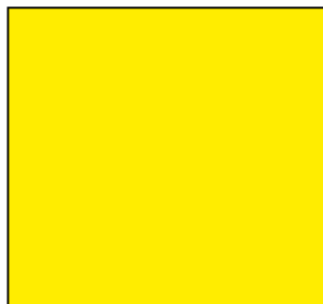
Hooray! The Second Derivative of the Unemployment Rate Improved!

by Nate Silver @ 12:12 PM

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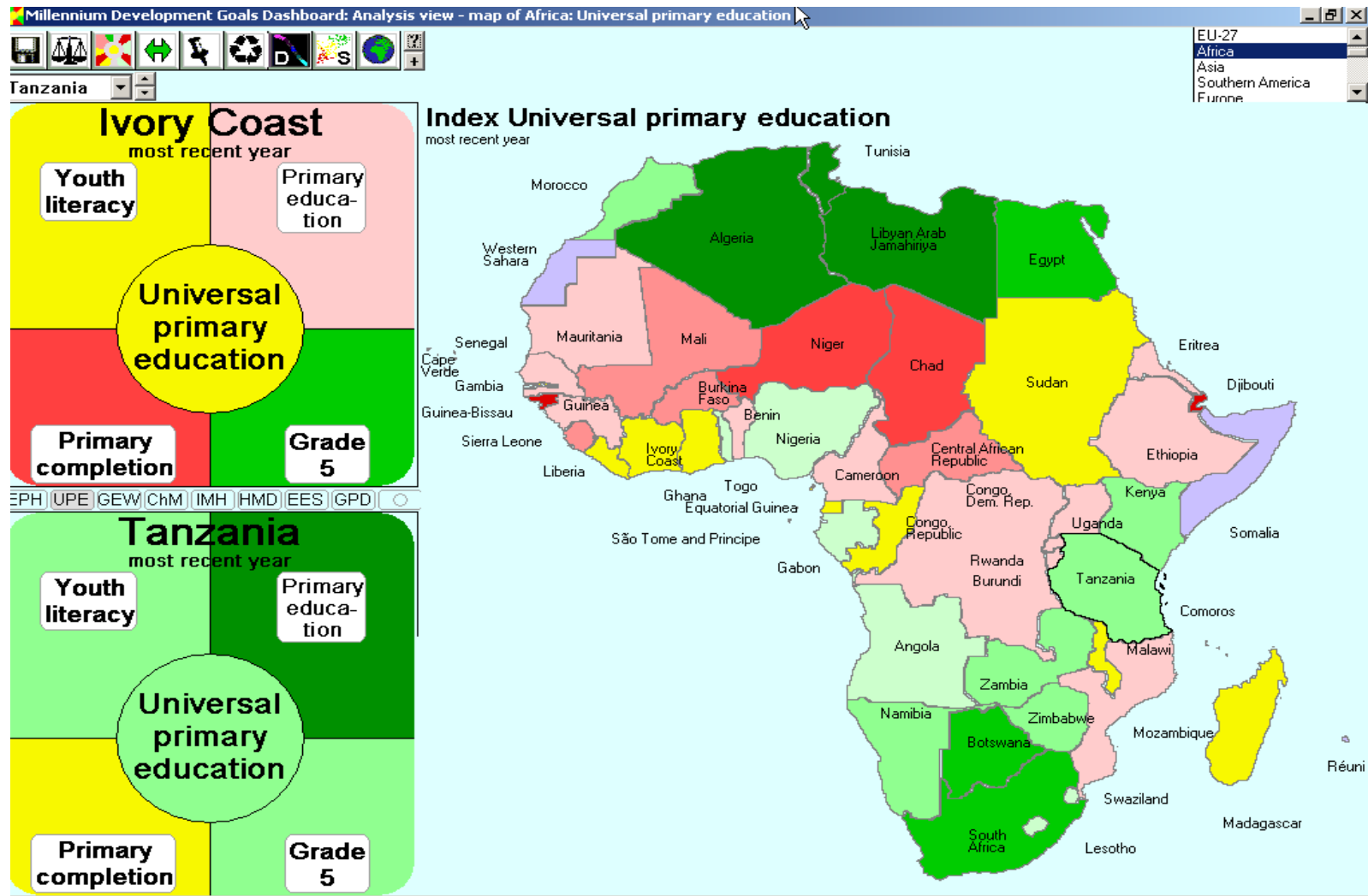
A lot of people are excited today not because the unemployment rate is low (it's very high -- 8.9 percent), nor because the economy is adding jobs (it lost another 539,000 last month, according to statistics **just released** by the BLS), but merely because it's *losing jobs less quickly*. That is, the **second derivative** of the employment rate -- the change in the rate of change -- has improved. This is what the situation looks like:

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Month	Employment	Change	2nd Derivative
Oct-2007	137,817,000	165,000	65,000
Nov-2007	138,032,000	215,000	50,000
Dec-2007	138,152,000	120,000	-95,000
Jan-2008	138,080,000	-72,000	-192,000
Feb-2008	137,936,000	-144,000	-72,000
Mar-2008	137,814,000	-122,000	22,000
Apr-2008	137,654,000	-160,000	-38,000
May-2008	137,517,000	-137,000	23,000
Jun-2008	137,356,000	-161,000	-24,000
Jul-2008	137,228,000	-128,000	33,000
Aug-2008	137,053,000	-175,000	-47,000
Sep-2008	136,732,000	-321,000	-146,000
Oct-2008	136,352,000	-380,000	-59,000
Nov-2008	135,755,000	-597,000	-217,000
Dec-2008	135,074,000	-681,000	-84,000

Millennium Development Goals Dashboard



Manual



Webb 2.0 kännetecknas av... (Nicklas Lundblad)

...att produktionsmedlen demokratiseras

...att "egendom" definieras om och konsumeras på nya sätt

...att vi skördar individens egenintresse för kollektiv nytta

...att vi fördelar arbete bättre än någonsin tidigare

...att vi odlar språket i stället för att definiera det

...att vi bygger gemeinschaft i stället för gesellschaft

...att förtroendet står i centrum

...att webben faller i bitar och sedan kan sammanfogas i ständigt nya bricolage



Karl Marx

Adam Smith

Ludvig
Wittgenstein

Friedrich von
Hayek

Ferdinand
Tönnies

Niklas Luhmann

Lyotard

Skapa och dela med dig av ditt arbete online

Skapa, redigera och lägg upp snabbt

Importera dina befintliga dokument, kalkylblad och presentationer eller skapa helt nya.

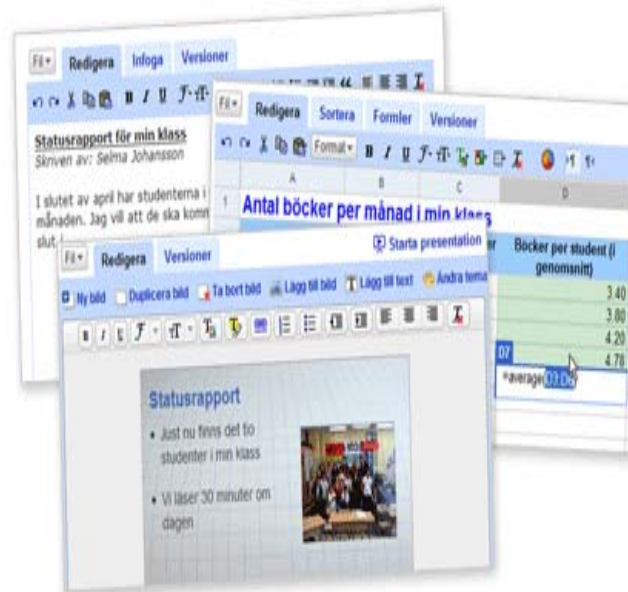
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Charting: Creating a chart



Working in a spreadsheet, you can choose from five main chart types, including column, bar, and pie charts. You can also save a chart as an image and insert it into a document. To create a chart, follow these steps:

1. From the Edit page of your spreadsheet, select the cells of data you'd like to include in the chart.

Note: It helps to label the data in your spreadsheet before creating a chart. For example, if you want to chart your expenses, you might have a row of numbers labeled 'Rent' and another labeled 'Groceries.' Then you might label columns by month or week, etc. These labels will appear automatically in the window where you create and preview your chart.

Monthly Expenses	January	February
Rent	700	700
Groceries	100	30
Other	700	750

2. Select the **Pie Chart**  icon in the menu bar or choose **Insert > Chart**. The 'Create chart' window appears.
3. In the 'What type?' section, select the type of chart you'd like to create: columns, bars, lines, pie, scatter, etc.

Create chart

What type? **3**

Columns

Bars

Pie

Lines

Area

Scatter

Sub type

Columns

Bars

Columns

Columns

Labels **4**

Chart title

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Legend On right

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Google Docs Updates/Issues

3/31/2008

Hello everyone, This has been a long time coming and now it's finally here! The Google Docs team proudly presents to you Google Docs offline! Before I dive deeper, let me clarify what this really means. For Google Documents, offline viewing and ...

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GraphsWe're Sorry.

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about Many Eyes
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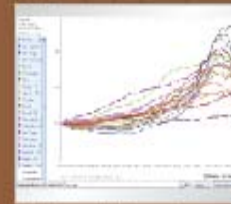
data sets

Buying vs. Social Networking

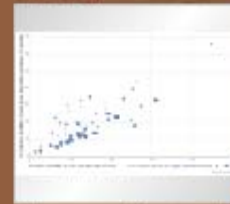


For teenagers across America.
by Bernie Hogan

Home prices since 1990



Male vs. Female Obesity



Manhattan apartments for sale

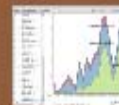


Featured Topic Hubs (dive into a topic of interest, or create a hub of your own)



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Illness statistics,
food recalls and
alerts, etc.



Transportation

Planes, trains, and automobiles!

OECD Factbook
2007

Official statistics.

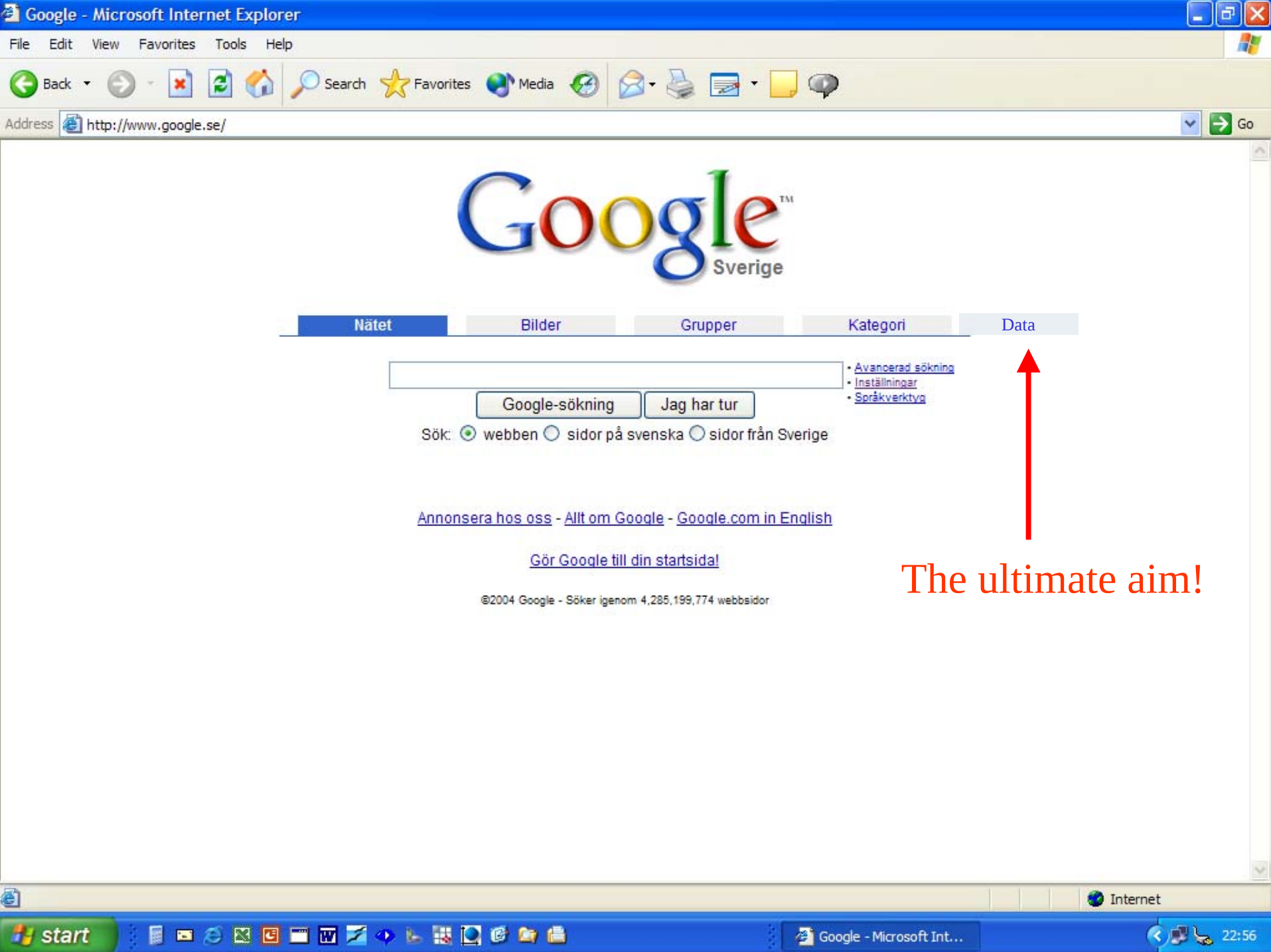


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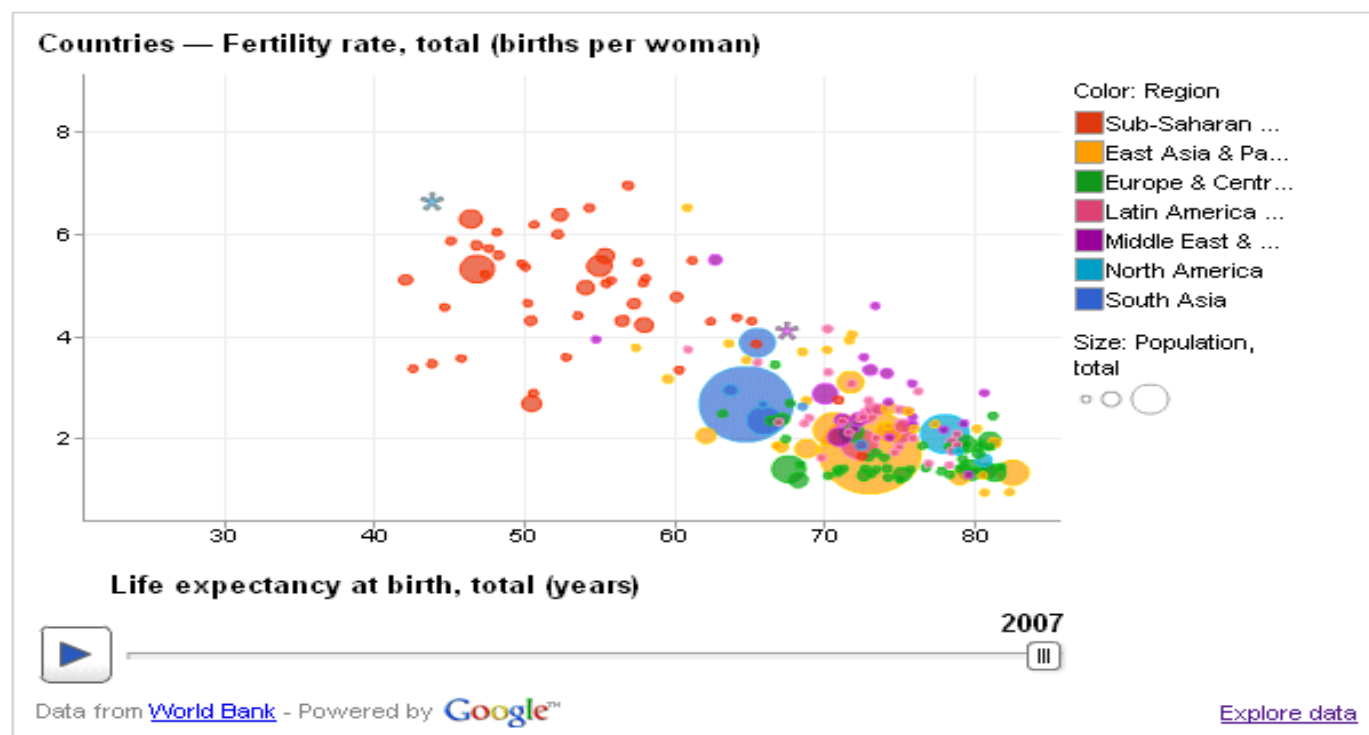
[FAQ](#)

Data visualizations for a changing world

The Google Public Data Explorer makes large datasets easy to explore, visualize and communicate. As the charts and maps animate over time, the changes in the world become easier to understand. You don't have to be a data expert to navigate between different views, make your own comparisons, and share your findings.

Explore the data

Students, journalists, policy makers and everyone else can play with the tool to create visualizations of public data, link to them, or embed them in their own webpages. Embedded charts and links can update automatically so you're always sharing the latest available data. Here's an example of an embedded visualization:

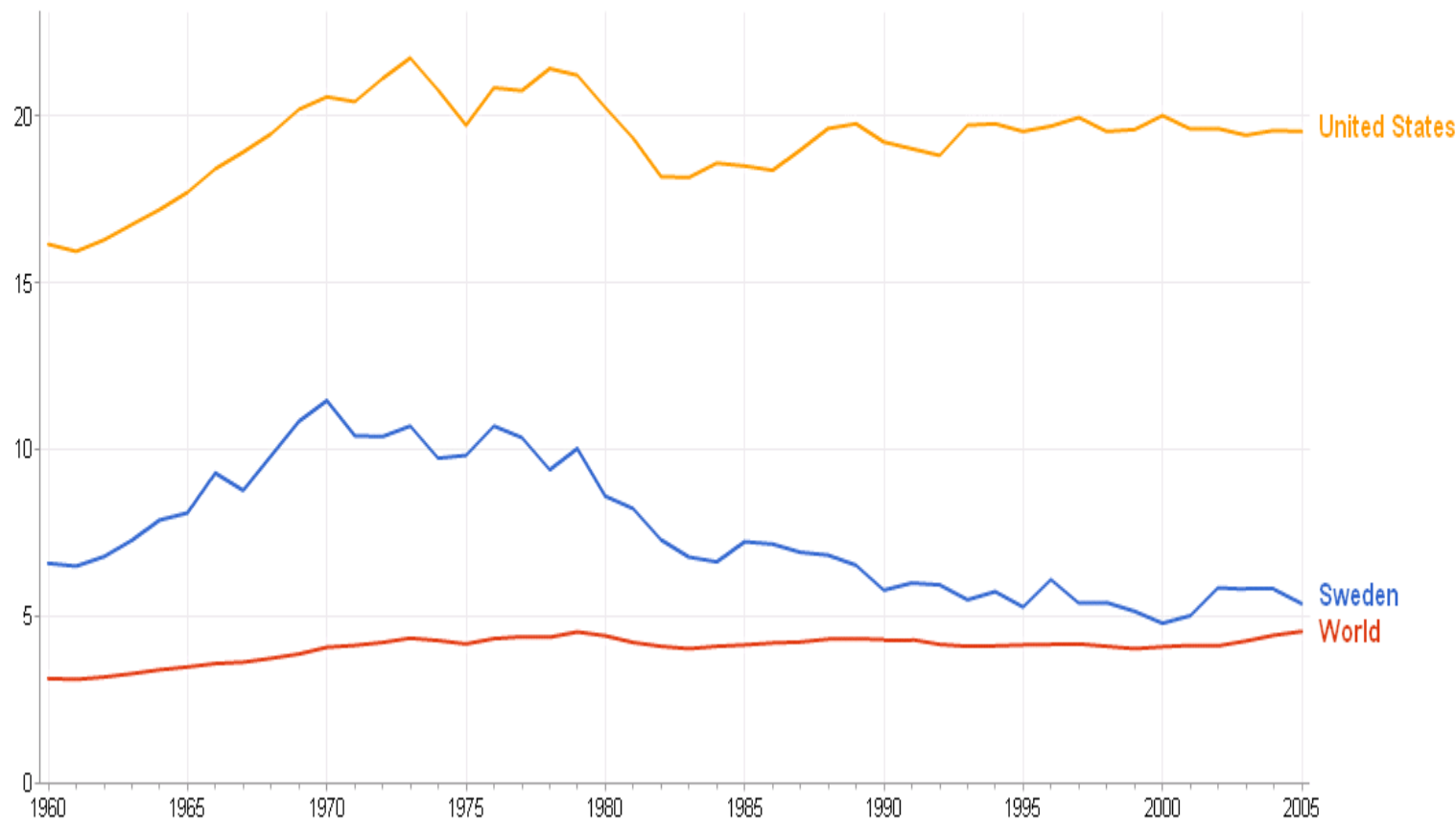


Public Data

- ☐ South Africa
- ☐ South Korea
- ☐ Spain
- ☐ Sri Lanka
- ☐ Sudan
- ☐ Suriname
- ☐ Swaziland
- ☒ Sweden
- ☐ Switzerland
- ☐ Syria
- ☐ São Tomé and Príncipe
- ☐ Tajikistan
- ☐ Tanzania
- ☐ Thailand
- ☐ Timor-Leste
- ☐ Togo
- ☐ Tonga
- ☐ Trinidad and Tobago
- ☐ Tunisia
- ☐ Turkey
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- ☐ U.S. Virgin Islands
- ☐ Uganda
- ☐ Ukraine
- ☐ United Arab Emirates
- ☐ United Kingdom
- ☒ United States
- ☐ Uruguay
- ☐ Uzbekistan
- ☐ Vanuatu

CO2 emissions per capita

Carbon dioxide emissions in metric tons per capita. [More info »](#)



Data source: [World Bank, World Development Indicators](#) - Last updated March 2, 2010

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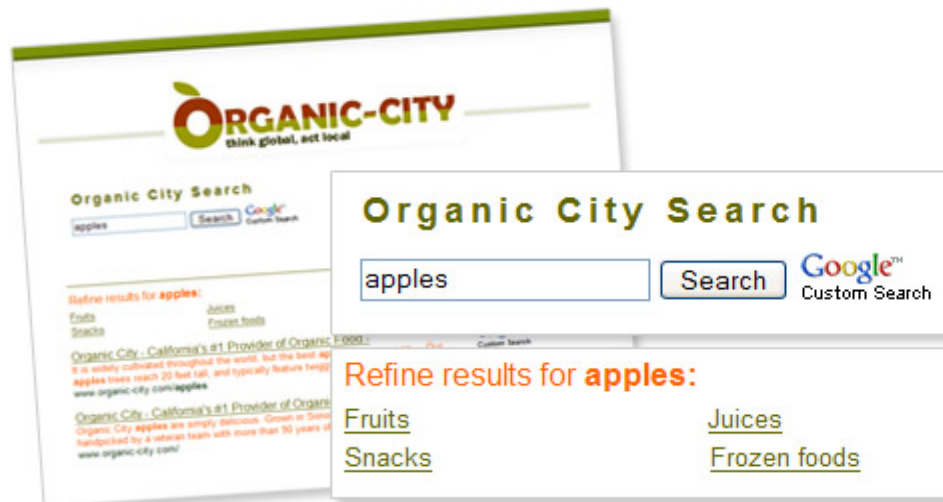
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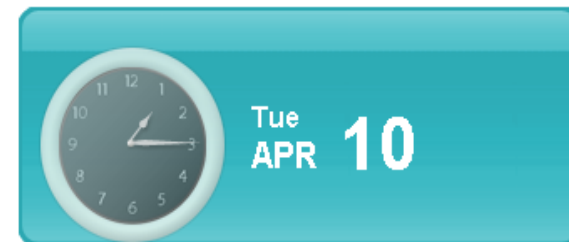
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2. **Intermediates** - if so how many? If many intermediates there is probably a higher risk for different kind of faults and mistakes in terms of data and metadata.
3. **Metadata** - is there information about methods, definitions, classifications etc. easily available (linked to figures, tables, producers or publishers)?
4. **Contact** - is there a contact address to a person, institution by mail or telephone for handling queries?
5. **Updating** of tables - is there any indication the table/diagram will be updated over time? If so, probably better quality.
6. **Benchmarking** the website, e.g. <http://www.websitegrader.com/> The algorithm uses a proprietary blend of over 50 different variables, including search engine data, website structure, approximate traffic, site performance, and others.

Uppgifter

- Ta fram konsumentprisändring och BNP-tillväxt realt för Sverige från FN:s, OECD:s, Eurostat och Sveriges statistikdatabaser i nämnd ordning för de senaste fem åren
- Jämför de olika källornas resultat och diskutera orsaker till eventuella skillnader
- Ge exempel på fördelar och nackdelar med de olika databaserna utifrån ett användarperspektiv