How open data is redefining and reaffirming the roles of the journalist, audience and publisher

Andrew Leimdorfer, BBC News Interactive and Graphics - @leimdorfer

Olivier Thereaux, BBC R&D - @olivierthereaux

bbc.co.uk/newsgraphics



@bbcnewsgraphics @leimdorfer

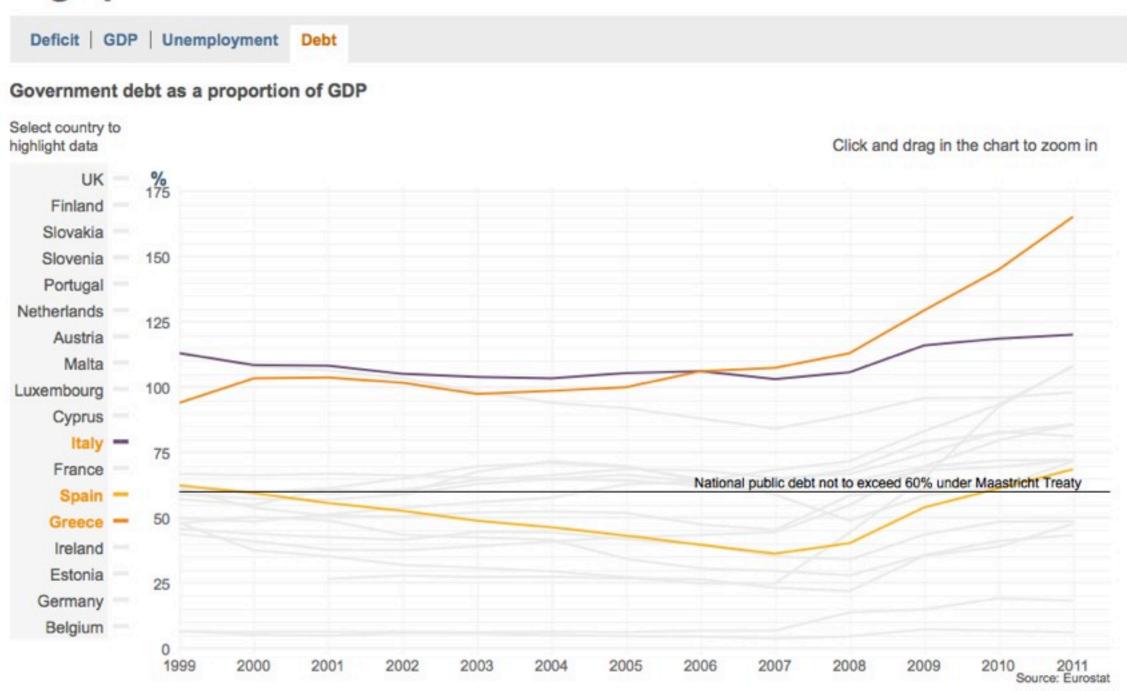
RQIV

Reach, Quality, Impact, Value

Reach		Impact		
Page Views		Shares	Interactions	
Very High	> 4 Million	50k	100%	
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Medium	> 250k	Ik	25%	
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http://bbc.in/lnPVVVI

In graphics: Eurozone crisis



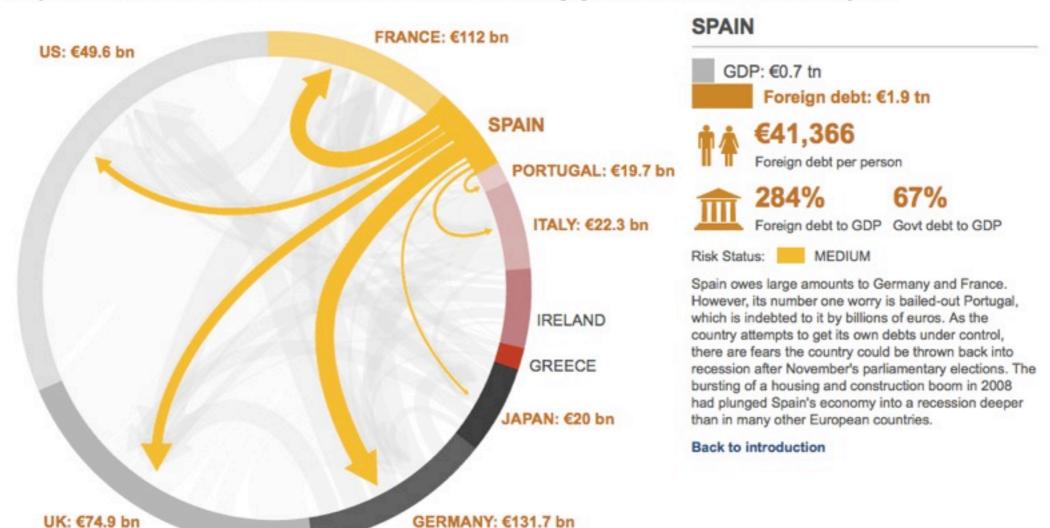
"I was no good at Maths at school so I don't want to be reminded of that in my free time"

Heavy user of news websites

http://bbc.in/s8yEx6

Eurozone debt web: Who owes what to whom?

The circle below shows the gross external, or foreign, debt of some of the main players in the eurozone as well as other big world economies. The arrows show how much money is owed by each country to banks in other nations. The arrows point from the debtor to the creditor and are proportional to the money owed as of the end of June 2011. The colours attributed to countries are a rough guide to how much trouble each economy is in.

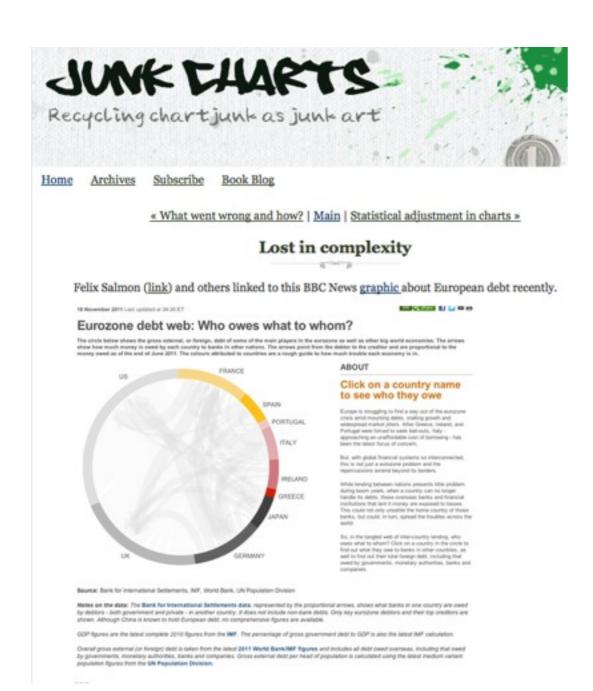


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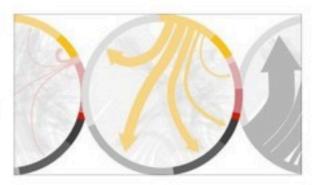
http://bit.ly/JdLGPk

Web of debt: FAQs

The BBC News website's interactive feature, Eurozone debt web: Who owes what to whom?, has been extremely popular.

As a result, we have received hundreds of emails asking a range of questions. Here are the answers to some of the most popular.

Why does the graphic show the gross debt owed to foreign banks by each country, rather than the balance of debt between countries?



The visualisation was intended to show the complicated picture of external, or foreign, debt in Europe and beyond, and how much lending goes on between countries. A net figure would not have shown this full picture, although it would have told a different and equally interesting story.

Why don't the debt figures shown in the circle add up to the total gross external debt for a country shown above the text on the right?

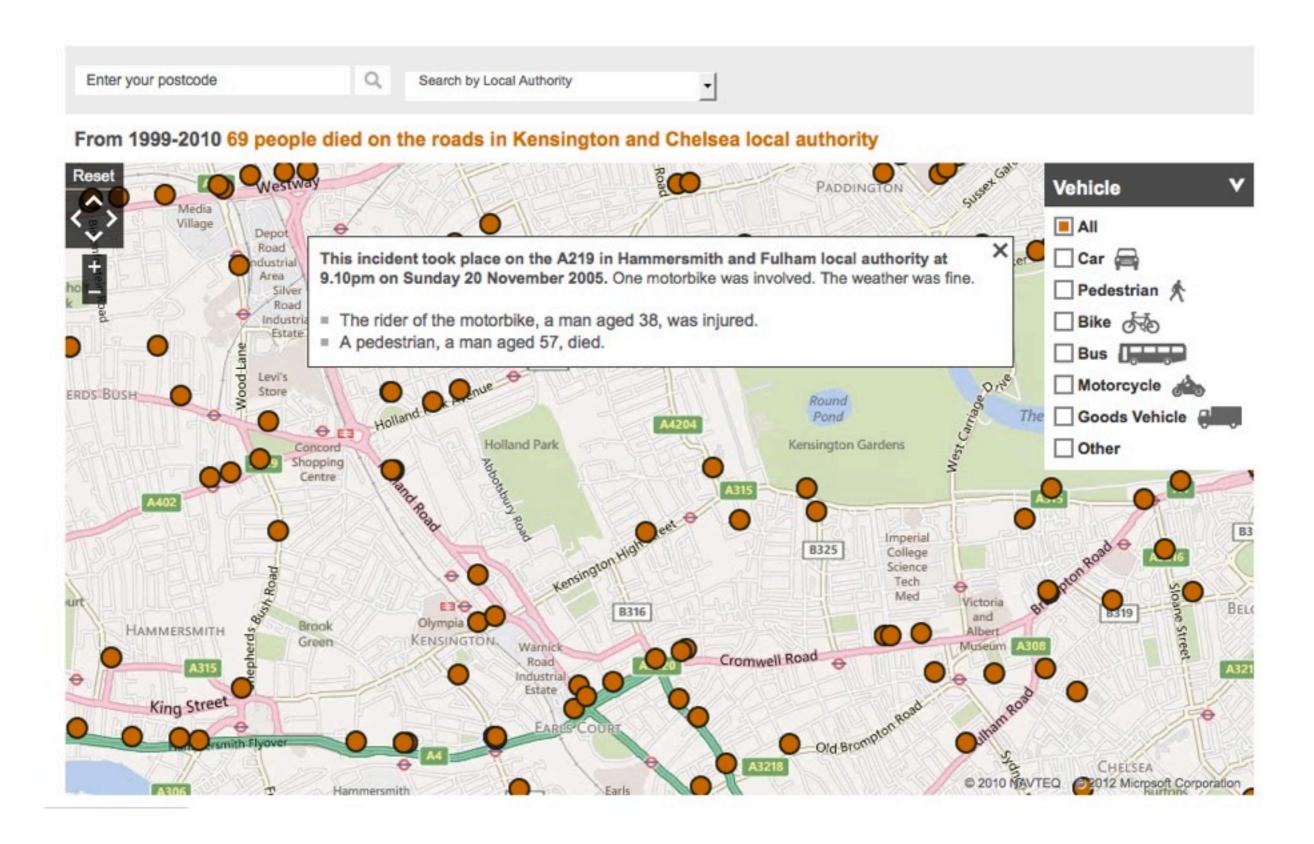
Not all countries that are owed money are featured in the graphic. Only the key eurozone countries and some major world economies are included. We wanted to provide a snapshot of the complicated world of inter-country lending.

The figures from the Bank for International Settlements, represented by the arrows, show what is owed to overseas banks by a select number of countries. The overall gross external, or foreign, debt figures featured above the text are from the latest IMF/World Bank quarterly report and represent all foreign debt, including that owed by governments, monetary authorities, banks and companies.

Why isn't China included?

http://bbc.in/rwcnoL

http://bbc.in/v9BjEQ





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Vincent and the Doctor

10/13 The Doctor and Amy Pond meet Vincent van Gogh... And an ancient, terrifying monster.

three

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Animals

Mammals

Red panda

Red panda

Red pandas were once thought to be closely related to the giant panda, but genetics has shown they are more closely allied with the raccoon and weasel families. They are secretive and gentle creatures, spending most of the day sleeping curled up with their tail wrapped around their head.

Scientific name: Ailurus fulgens

Rank: Species

Common names: Firefox, Lesser panda





Introduction



Himalayan corridor
Land of the Tiger
Red pandas have
ranged westward from
China along the
mountain range.



Bamboo eaters
Trials of Life
Red pandas and
golden bamboo
lemurs survive on
indigestible bamboo.



The high life Living Planet The forested valleys of the Himalayas require special adaptations.



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         http://www.bbc.co.uk/nature/life/Red_Panda.rdf
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     /red_panda_1.jpg"/>
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       Red pandas were once thought to be closely related to the giant panda, but genetics has shown they are more closely allied with the raccoon and wease
       They are secretive and gentle creatures, spending most of the day sleeping curled up with their tail wrapped around their head.
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   </wo:Species>
 - <wo:TaxonName rdf:about="/nature/species/Red_Panda#name">
Tuesday, 19 June 12
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MUSIC

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Tom Waits

Born 7 December 1949.



Biography

Thomas Alan "Tom" Waits (born December 7, 1949) is an America an singersongwriter, composer, and actor. Waits has a distinctive voice, d scribed by critic Daniel Durchholz as sounding "like it was soaked in a vat of bour oon, left hanging in the smokehouse for a few months, and then taken outside and run over with a car." With this trademark growl, his incorporation of pre-rock mus ic styles such as blues, jazz, and vaudeville, and experimental tendencies verging on industrial music, Waits has built up a distinctive musical persona. He has worked as a composer for movies and musical plays and as a supporting actor in films, including Down By Law and Bram Stoker's Dracula. He was nominated for an Academy Award for his soundtrack work on One from the Heart.

Lyrically, Waits' songs frequently present atmospheric portrayals of grotesque often seedy characters and places – although he has also shown a penchant for more conventional ballads. He has a cult following and has influenced subsequent songwriters despite having little radio or music video support. His songs are best-

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Crazy About My Baby

BBC 6 MUSIC | GIDEON COE 06/10/2011

Drunk On The Moon

BBC 6 MUSIC | THE HUEY SHOW 25/09/2011

Jersey Girl

BBC RADIO 2 | JANICE LONG 20/09/2011

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Links & Information

LINKS

Official homepage at tomwaits.com

Biography at anti.com/artists/view/1

Fanpage at eyeballkid.blogspot.com, tomwaitsfan.com and tomwaitslibrary.com

Twitter at twitter.com/tomwaits

MySpace at myspace.com/tomwaits

Wikipedia article on Tom Waits

IMDb at imdb.com/name/nm0001823

Last.fm page on Tom Waits

Discogs at discogs.com/artist/Tom Waits

MusicBrainz entry on Tom Waits

PERSONAL RELATIONSHIPS

Parent of Casey Waits

Married to Kathleen Brennan

Links & information come from MusicBrainz. You can add or edit information about Tom Waits at musicbrainz.org. Find out more about our use of this data. The BBC is not responsible for the content of expensel sites.

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Mark Lamarr BBC Radio 2



Lauren Laverne BBC 6 Music



The Huey Show BBC 6 Music



lain Anderson BBC Radio Scotland



The Late Show with Cherrie McIlwaine BBC Radio Ulster

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Rickie Lee Jones



Captain Beefheart



Nick Cave

We use data provided by The Echo Nest to recommend similar artists.

"News is what somebody somewhere wants to suppress; all the rest is advertising."

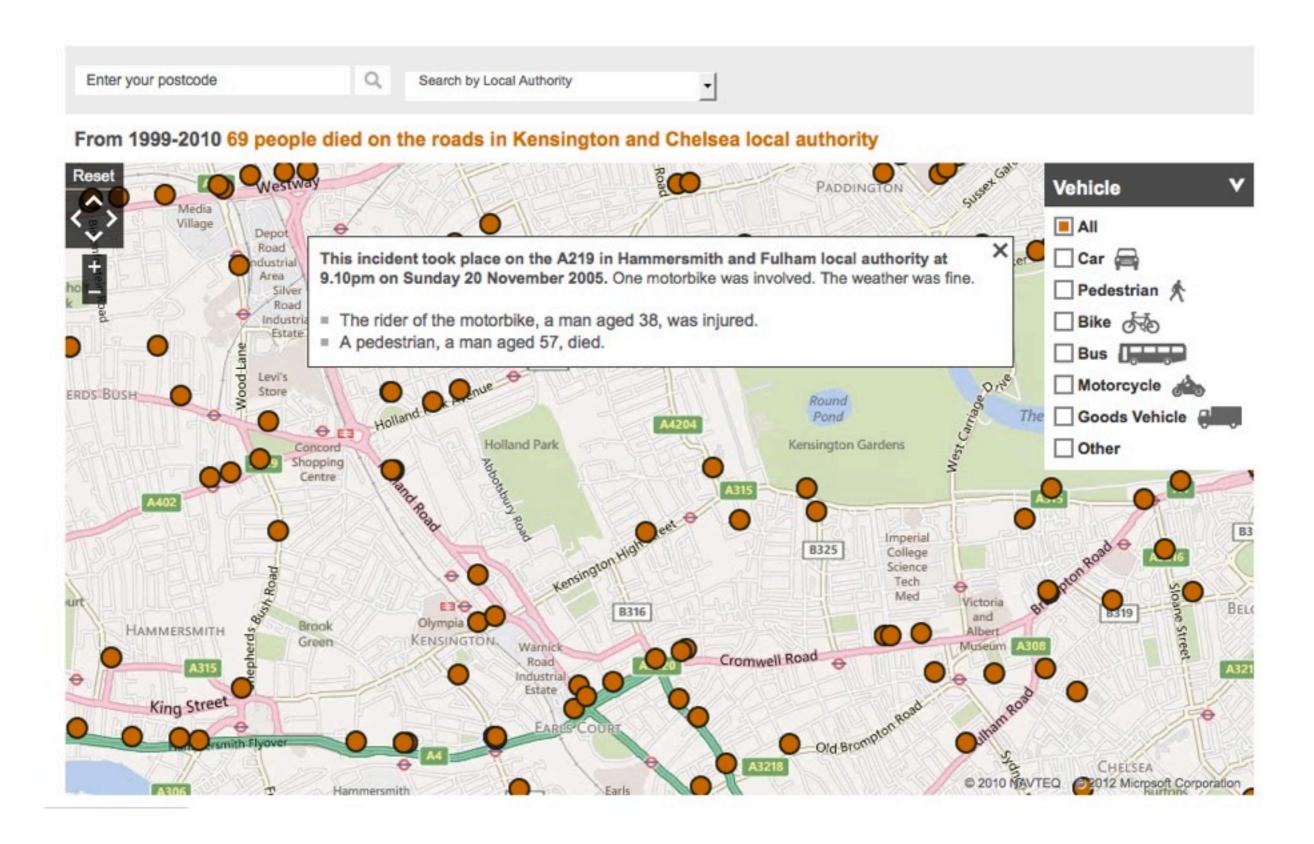
— Attributed to Alfred Harmsworth, 1st Viscount Northcliffe

Journalism:

A profession whose business is to explain to others what it personally does not understand

— Attributed to Alfred Harmsworth, 1st Viscount Northcliffe

http://bbc.in/v9BjEQ



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Radio



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Rebekah Brooks remanded on bail

Undercover officer 'bombed shop'

Road casualties: FAQs

The BBC News website's road casualties map, which shows all recorded deaths on Britain's roads between 1999 and 2010, has been enormously popular.

As a result, we have received hundreds of emails asking a range of questions. Here are the answers to some of the most frequent about the map and related features.



Where does the data come from?

Every time a road traine collision is reported to the police in which someone is either injured or dies, the police record details of the incident on a special form, known as STATS19. The police record many details including when and exactly where the crash took place, in what weather, on what class of road and whether it was close to a junction, a school and son on. All of this data is collated every year. The Department for Transport releases quarterly headline figures based on this data and once a year, a full annual report. The latest report for 2010 is here.

Why do you say the data covers Great Britain when it includes Northern Ireland?

The complete data over the time period - 1999-2010 - is for Great Britain. However, we have also included some partial data for Northern Ireland, for 2004-2009. The Northern Ireland data comes from a different source and was in a different format and so isn't directly comparable. Some of it

Features & Analysis



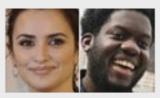
Green and pleasant

Is the Olympic opening ceremony anything like the UK?



Great fish swap

Why does most British fish end up abroad?



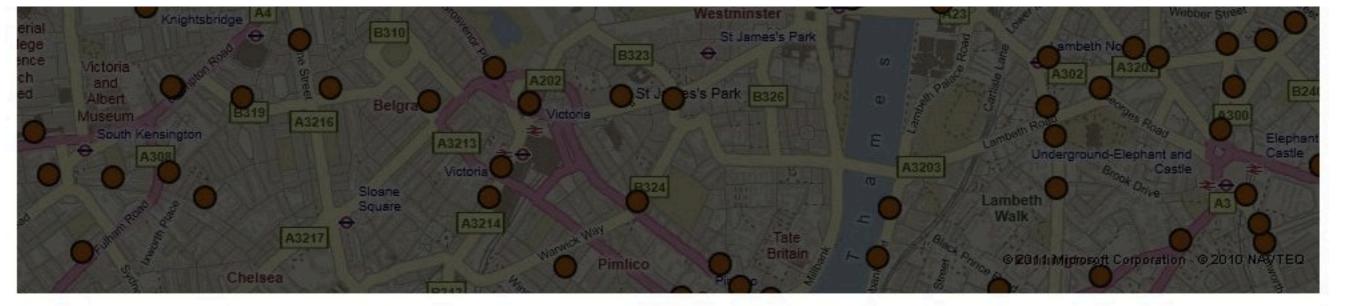
Spain v Uganda

How different are they really?



Sputnik enterprises

What happened to the British communist party's millions?



Britain has one of the best records in the world for road casualties. However, hundreds still die on the roads every year. In 2010, the police recorded 1,850 deaths, 22,660 people seriously injured and 184,138 who received light injuries.

About the map: Using official data recorded by police in Great Britain between 1999 and 2010, we have plotted every road collision in which someone died. In all, 36,371 fatalities are marked on this interactive map. You will also find partial data for Northern Ireland, for 2004-2009.

How the data is gathered: Detailed information about each crash is recorded by the police at the scene. It is subsequently transferred onto a computer database. This is available to researchers from the Economic and Social Data Service.

Missing data: As with any large collection of data, there will be errors and omissions. The BBC apologises for any distress or offence that may be caused by the inclusion of these errors. If you find any errors, please use the feedback form and let us know. We will endeayour to correct them where possible.

Here are answers to some of your frequently asked questions are here..

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Great fish swap

Why does most British fish end up abroad?



Spain v Uganda

How different are they really?



Sputnik enterprises

20 September 2010 Last updated at 19:43



Public Sector pay: The numbers

Top public pay revealed The figures Explore the data Analysis: NHS Analysis: Education Methodo ogy Your comments

Explore the full database by clicking on the lists in the left handside box to drill down into the data.

All categories

		Organisation	Name	Location	lob description	Remunerat
Police		Organisation	Name	Location	Job description	Remunera
Judiciary	1	BBC	Mark Thompson		Director-General	£838,000
Education	2	BBC	Jana Bennett		Director, Vision	£517,000
NHS	3	BBC	Mark Byford		Deputy Director-General	£488,000
Local Government	4	Hillingdon PCT	No Name Supplied		GP	£475,500 *
ввс	5	Heart of Birmingham Teaching PCT	No Name Supplied		GP	£475,000 *
Fire and Rescue	6	BBC	Tim Davie		Director, Audio & Music	£452,000
Central Government	7	BBC	Zarin Patel		Chief Financial Officer	£434,000
Quango	8	BBC	Caroline Thomson		Chief Operating Officer	£419,000
Armed Forces	9	BBC	Erik Huggers		Director, Future Media & Technology	£407,000
	10	Westminster PCT	No Name Supplied		GP	£406,060
	Results 1 to 10.					Results 1 to 10

^{*} pay band average

Public Sector Pay: Full Data

Download the full data here: [7.7 MB]

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20 September 2010 Last updated at 15:48









Public Sector pay: The numbers



Analysis: NHS | Analysis: Education

Methodology

Your comments



More than 9,000 public sector employees earn more than Prime Minister David Cameron, who took a 5% pay cut when he took office - he now earns £142,500.

New research for BBC Panorama found that there were more than 38,000 public employees earning above £100,000, and 1,000 people on more than £200,000.

BBC News website readers have been sending us their reaction.



I am an administrative officer working for the Prison Service. My starting salary doesn't even break the £15,000 mark. I'd like to know what these people do that entitles them to earn more money than I'll see in 10 years! My department is under-staffed and over-worked, and it's because people are being paid these ridiculous salaries. I think it's incredibly unfair, and if something isn't done, and soon, many people are going to strike.

Jen, UK

These numbers are evidently supposed to be shocking, but I was actually quite impressed by how reserved the top salaries are. Any sizeable private company will pay its top earners far more than this, and narramally. Ud lika ta think the chief everytimes of each important national

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Whatever happened to the boy behind World Cup Willie?



7 days quiz

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Moment of truth

Europe on edge ahead of crucial Greek election

Most Popular

Jen, UK

These numbers are evidently supposed to be shocking, but I was actually quite impressed by how reserved the top salaries are. Any sizeable private company will pay its top earners far more than this, and personally I'd like to think the chief executives of such important national institutions are the pick of the bunch, so salary reduction would be a very bad idea.

Micheal, Newbury

I think it's perfectly acceptable that there are public servants paid more than the prime minister - he has a substantial coterie of aides and assistants to help him with his job whereas the same most likely can't be said of the people on your list. These people aren't making cups of tea for a living - they're professionals working in the public sector who could probably earn a lot more in the private sector. High-level positions require high-level wages to get the best people.

Chris Harker, Durham

Absolutely astounded! University Hospitals of Leicester NHS Trust has 349 of the supposedly most intelligent people in the UK earning more than the prime minister, a man who determines whether or not the country goes to war. That's a lot of people discussing who buys the bandages. Privatise the NHS, kick them to the kerb, reduce debt as they can't get it right.

Paul Gibbons, Coventry

I have been working in local government as an admin assistant for the past 18 months after taking a drop of 50% in salary following redundancy from a London job. I earn less than I was getting when I worked for central government from 1990 to 1993. Try telling me public sector workers get more money than the private sector.

Pamela, Kent

Tuesday, 19 June 12

This is an absolute disgrace, as a low level civil servant I earn a pittance compared to these executives but my colleagues and I are constantly told that we are overpaid, underworked and a drain on the economy, but it's our bosses that deserve to be made redundant in the upcoming public sector cuts, not the low-level employees who earn less in 15 years than most of these executives do in one year.



Greek election

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Bank shares jump on stimulus move			5			
Gale-force	wind and r	rain forecast	6			
Argentina o	demands F	alklands talks	7			
Tourist's car blown up by police						
Man attack	ed with Sa	murai sword	9			
Quiz of the	10					

Thank You

@leimdorfer - @olivierthereaux