Creating big data journalism impact with tiny resources

WalesOnline Datastore



- Using statistics to find stories for print and online
- Trying to present them in ways that are accessible

Tools for data journalism:

- Excel or Open Office
 Calc
- PDF reader and a program to open word documents.
- Datasets
- A place to write stories

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You may also need:

- A Google account
- Something to visualise data

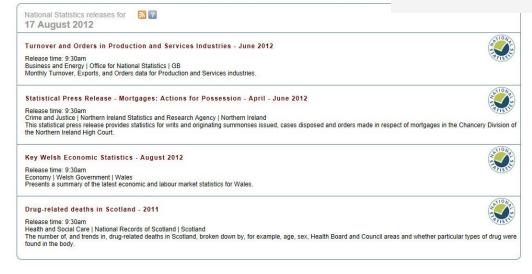
with – Google Charts, Google Fusion Tables, Tableau, Infogr.am, Openheatmap etc.

Google Refine

Sources of data

- Government statist
- Written answers
- Searching
- FOI
- Crowdsourcing





The key to getting to grips with data journalism is remembering it is just like all other types of journalism...

What is the story?

Things that might make a story:

- O The biggest, the highest, the most
- O The smallest, the fewest
- Fastest growing
- O Location
- O Successes
- Failures
- o Why?

It's all about the headline

TITLE: Unemployment - September 2013 DATE: Wednesday, September 11

COVERAGE: UK

OF POTENTIAL INTEREST TO: all newsrooms

PREPARED BY: Claire Miller (02920243614, claire.miller@mediawales.co.uk)

URL:

http://www.ons.gov.uk/ons/publications/re-reference-tables.html?edition=tcm%3A77-276583

Headlines

In the three months to July:

 $\underline{\text{Wales}}$ - Unemployment fell 7,000 compared to the last quarter, with unemployment rate now at 8%

North East - Unemployment was highest and employment lowest in UK, rising 5,000 in the quarter to 136,000.

<u>North West</u> - highest levels of economic inactivity, seeing a rise of 25,000 across the quarter and 82,000 compared to a year before - falls in employment and rises in unemployment - biggest quarterly rise in UK.

<u>Yorkshire and the Humber</u> - Unemployment stayed fairly steady at 245,000, a small rise of around 1,000 people.

<u>West Midlands</u> - unemployment rose by 7,000 continuing the recent trend, with the unemployment rate at 9.8% closing on one in 10 out of work.

South East - Unemployment was lowest and employment highest in UK

London - Unemployment fell 7,000 across the quarter to 359,500.

 Send out daily bulletins to newsdesks across England and Wales

 Try to highlight interesting data and possible stories for the different

Taking use of FOI efficiently

Two ways:

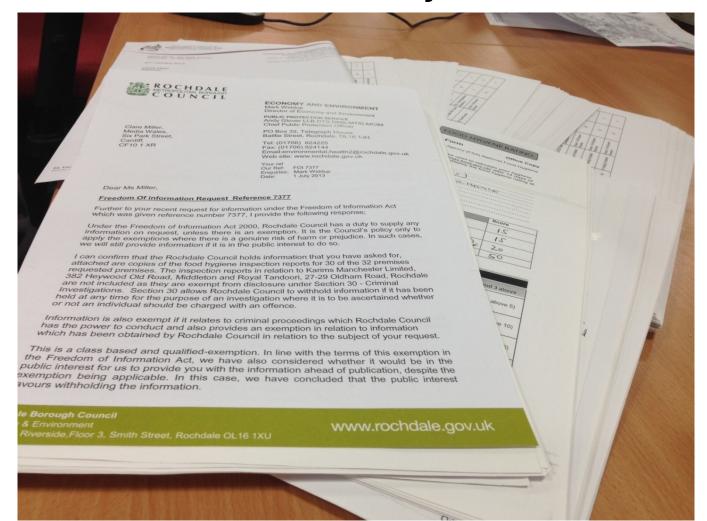
- Ask for a database
- Build your own (but make sure it's straightforward)

DON'T

Ask for lots of documents, you're never going to get through.

laking use of FOI efficiently

is is all the documents I'm busy not transcribing



laking use of FOI efficiently

Envisage what data will look like, then ask for it.

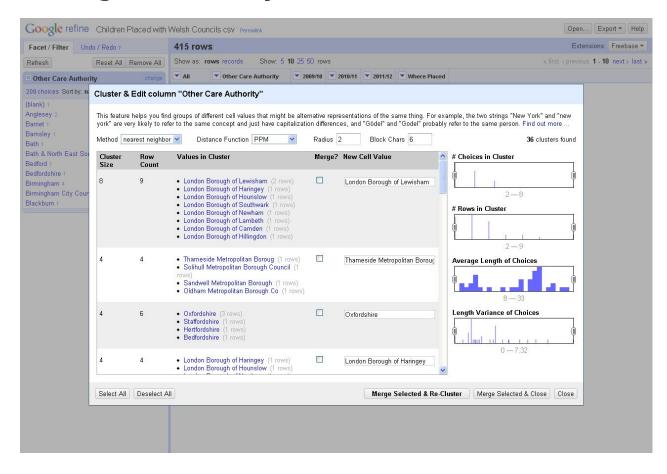
Be specific – do you want a number per year per area? Per month?

Have the spreadsheet you want to build in

	A	В	С	D	E
1	Other Care Authority	2009/10	2010/11	2011/12	Where Placed
2	Bath & North East Somerset		X	X	Monmouthshire
3	Birmingham City Council		X		Monmouthshire
4	Blaenau Gwent County Borough Council	X	X	X	Monmouthshire
5	Bolton Council			X	Monmouthshire
6	Bridgend County Borough Council		X		Monmouthshire
7	Bristol City Council			X	Monmouthshire
8	Caerphilly County Borough Council		X	X	Monmouthshire
9	Cardiff Council		X	X	Monmouthshire
10	Doncaster Council			X	Monmouthshire
11	Gloucestershire County Council			X	Monmouthshire
12	Herefordshire Council	X			Monmouthshire
13	Lewisham Council			Χ	Monmouthshire
14	Merthyr Tydfil County Borough Council		X	X	Monmouthshire
15	Milton Keynes Council	X		X	Monmouthshire
16	Neath Port Talbot County Borough Council	X			Monmouthshire
17	Newport City Council	X	X		Monmouthshire
18	Pembrokeshire County Council			X	Monmouthshire
19	Powys County Council	X		X	Monmouthshire
20	Rhonda Cynnon Taff County Borough Council	X	X	X	Monmouthshire
21	Solihull Metropolitan Borough Council	X			Monmouthshire
22	Surrey County Council			X	Monmouthshire
23	Swansea City Council		X	Х	Monmouthshire
24	Torfaen County Borough Council	X	X	X	Monmouthshire
25	Vale Of Glamorgan Council			X	Monmouthshire
26	Worcestershire County Council		X		Monmouthshire
27	Blaenau Gwent Borough Council		1		Pembrokeshire
28	Bridgend County Borough	4	1	3	Pembrokeshire
29	Caerphilly County Borough Council		1		Pembrokeshire
30			3	1	Pembrokeshire
31	Carmarthen County Council	7	4	2	Pembrokeshire

Data is messy

If you cannot understand or read the data, it is very hard to get a story from it.



Getting the story

Н	1	J	K		
Number of placements	2009/10	2010/11	2011/12		
Blaenau Gwent	11	16	19 89		
Bridgend	49	147			
Caerphilly	65	69	89		
Cardiff	11	25	33		
Carmarthenshire	117	157	207		
Ceredigion	15	17	28		
Conwy					
Denbighshire	shire Refused				
Flintshire	64	33	42		
Gwynedd					
Isle of Anglesey	75	60	89		
Merthyr Tydfil	25	15	15		
Monmouthshire	56	53	44		
Neath Port Talbot	109	107	48		
Newport	39	41	72		
Pembrokeshire	42	32	22 180		
Powys	211	188			
Rhondda Cynon Taf	34	52	52		
Swansea	No hi	storic nun	nbers		
Torfaen	33	21	17		
Vale of Glamorgan	5	3	6		
Wrexham	67	89	67		
Wales	1028	1125	1119		

Once you have a spreadsheet, you can start looking for stories

- Sorting
- Adding calculations rates
 - per 10,000
- Using pivot tables
- Merging with other datasets

Things that might make a story:

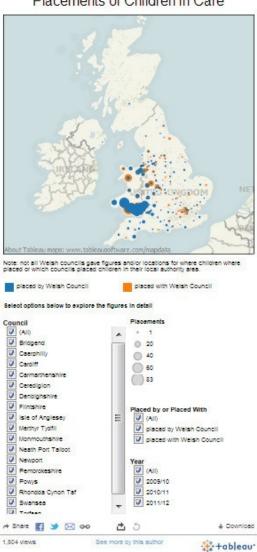
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Getting the story

	Α	В	С	D	E	F	G
1	Council	Local Authorities	Latitude	Longitude	Placed by or Placed With	Year	Placements
2	Powys	Leeds	53.801279	-1.548567	placed with Welsh Council	2009/10	3
3	Powys	Luton	51.878671	-0.420026	placed with Welsh Council	2009/10	1
4	Flintshire	Wrexham	53.04304	-2.992494	placed with Welsh Council	2010/11	8
5	Powys	Oxfordshire	51.761206	-1.246467	placed with Welsh Council	2011/12	1
6	Powys	Wrexham	53.04304	-2.992494	placed with Welsh Council	2010/11	2
7	Cardiff	Merthyr Tydfil	51.74873	-3.381646	placed with Welsh Council	2010/11	2
8	Powys	Walsall	52.586214	-1.982919	placed with Welsh Council	2010/11	2
9	Powys	Wiltshire	51.246271	-1.992213	placed with Welsh Council	2009/10	1
10	Caerphilly	Rhondda Cynon Taf	51.674498	-3.468708	placed with Welsh Council	2010/11	27

Tidying up the spreadsheet saves time later when making visualisations

Placements of Children in Care



Learn About Tableau

Use online tools for quick impact – Batchgeo, Datawrapper, infogr.am, Google charts



Build resources in free tools to save time – Tableau Public, Google Fusion Tables

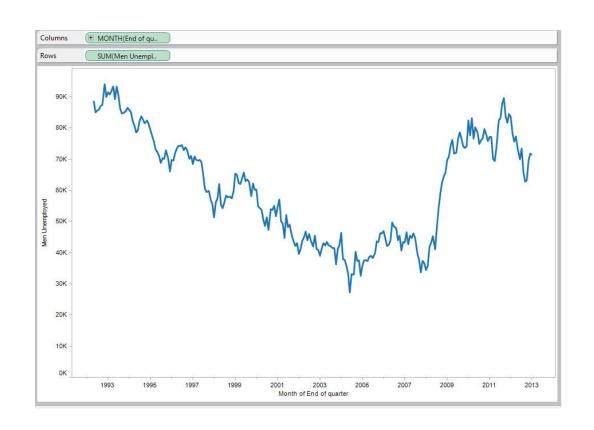
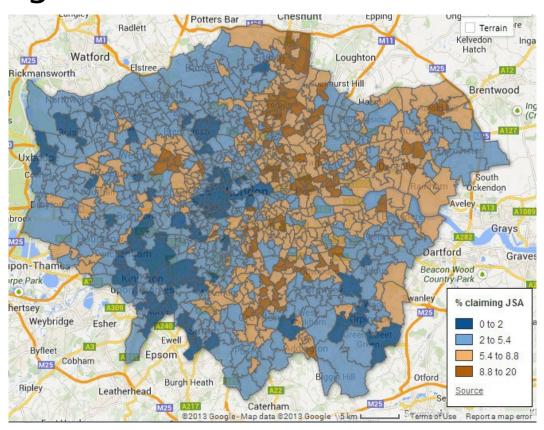


Tableau Public – great for quick maps with options for filtering.

Build once then update as you update your spreadsheet by connecting the visualisation to

Build resources in free tools to save time – Tableau Public, Google Fusion Tables

Set up shapefiles in Google Fusion Tables ready to merge with datasets for quick heatmaps



Make use of the features of the tools you have

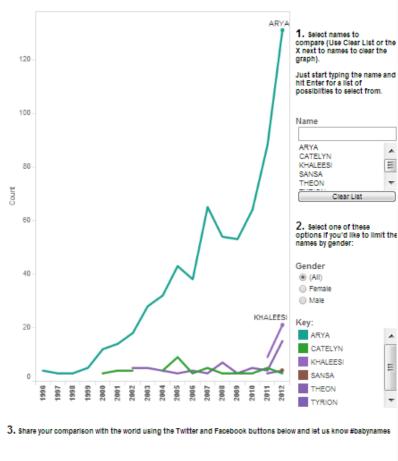
Baby names social sharing interactive made in Tableau

Uses filters and search options as well as facility to share views

Most Popular Baby Names in England and Wales

How many babies born since 1996 share your name and is it becoming more or less popular.

Use our simple comparison tool to find out the fortunes of the names of your friends, family and favourite celebrities.

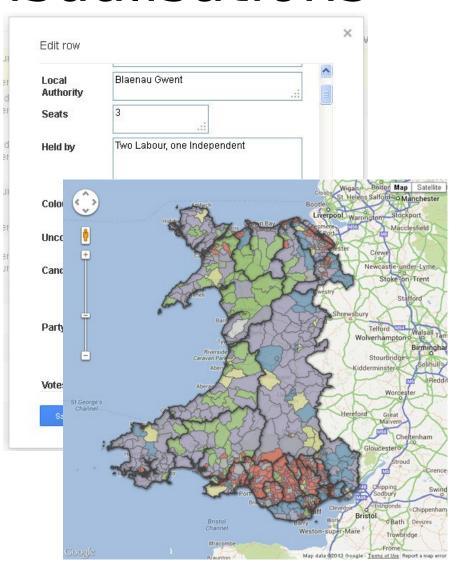


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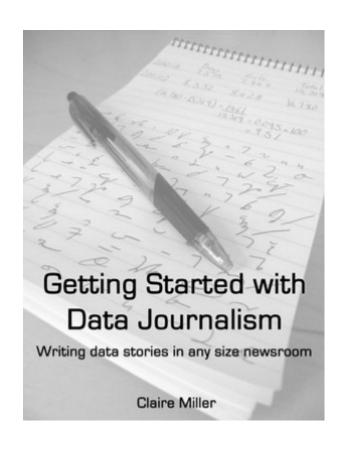
🔆 +ableau



Make use of the features of the tools you have

Election map using Google Fusion Tables.

Updating the table updates the colours on the map on the pages it is embedded on.



Getting Started with Data Journalism Writing data stories in any size http://deangub.com/ datajournalism