



Open Data in Practice

<http://training.theodi.org/InPractice>

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Day 3: Session 1

The 80/20 of open data

DATABLOG

Facts are sacred

<http://www.theguardian.com/news/datablog/2012/may/24/data-journalism-punk>



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Anyone can do it. Data journalism is the new punk

Can anyone be a data journalist? **Simon Rogers** on what we can learn from a 1977 diagram

• Another view: [What data can and cannot do](#) by Jonathan Gray

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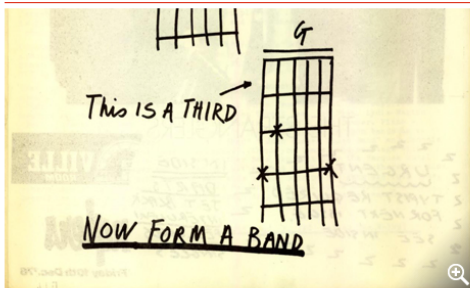
Posted by
Simon Rogers
Thursday 24 May 2012
13.00 BST
[theguardian.com](#)
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Media
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Technology



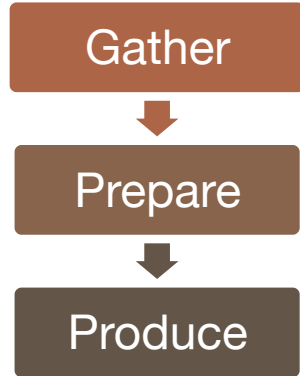
Page two of *Sideburns*, January 1977



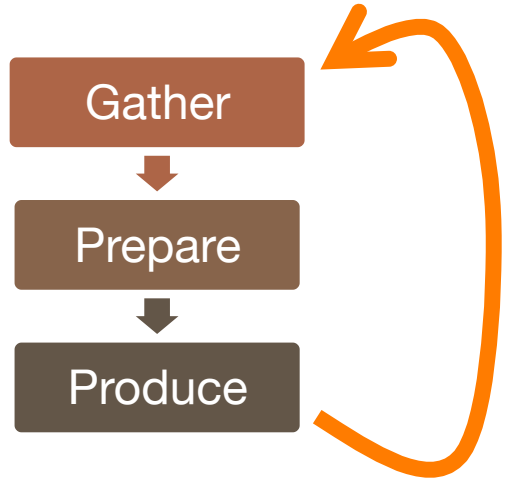
This is a chord... this is another... this is a third. NOW FORM A BAND

The data percolator

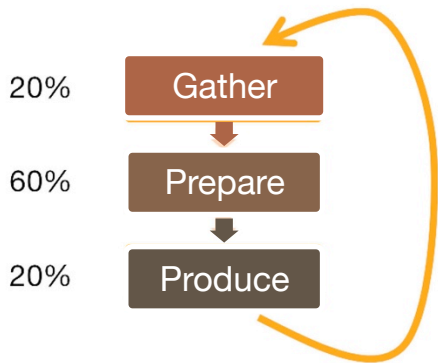
Data percolation: A model of data preparation and analysis



Data percolation: A model of data preparation and analysis

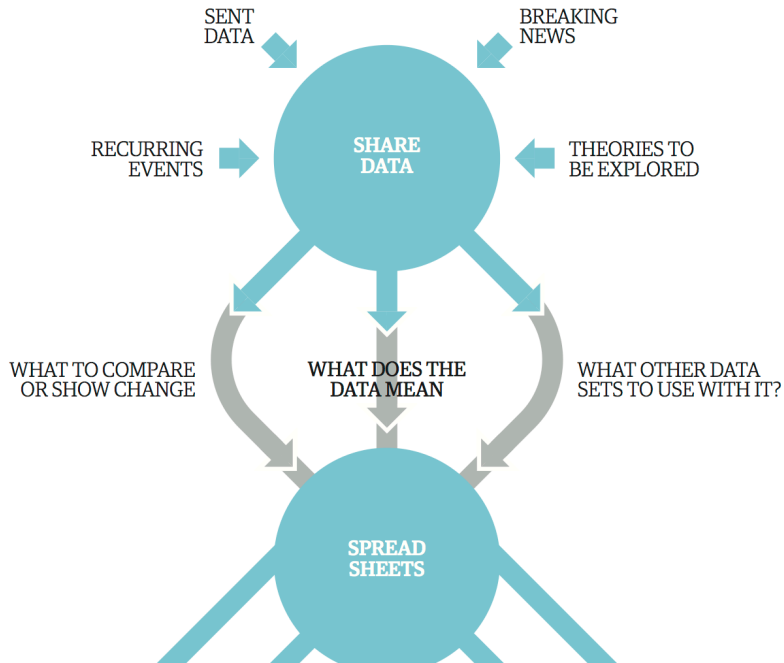


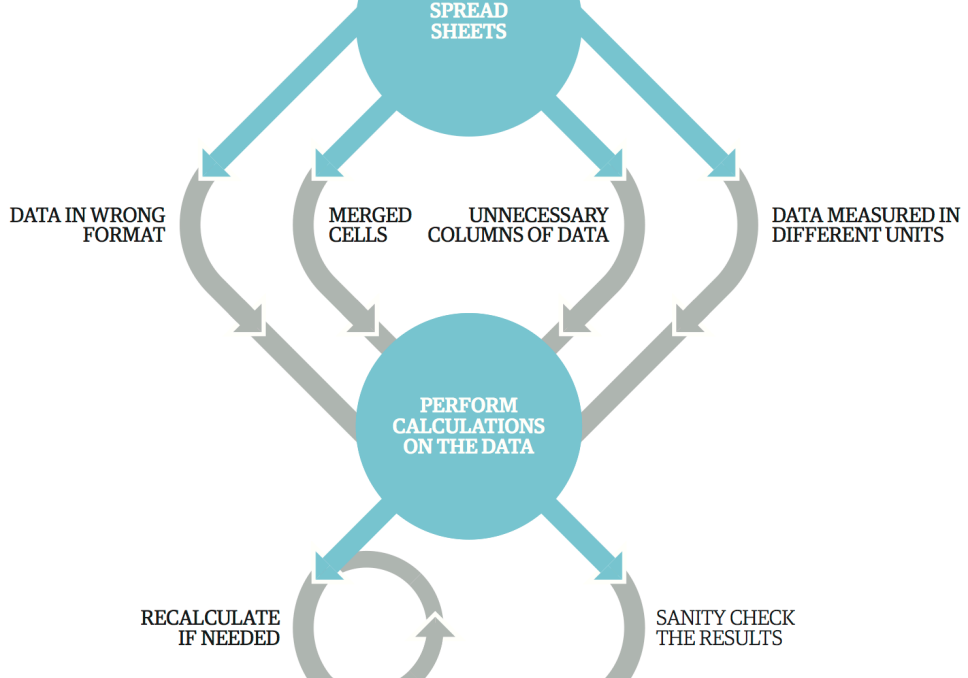
How should I budget my time?

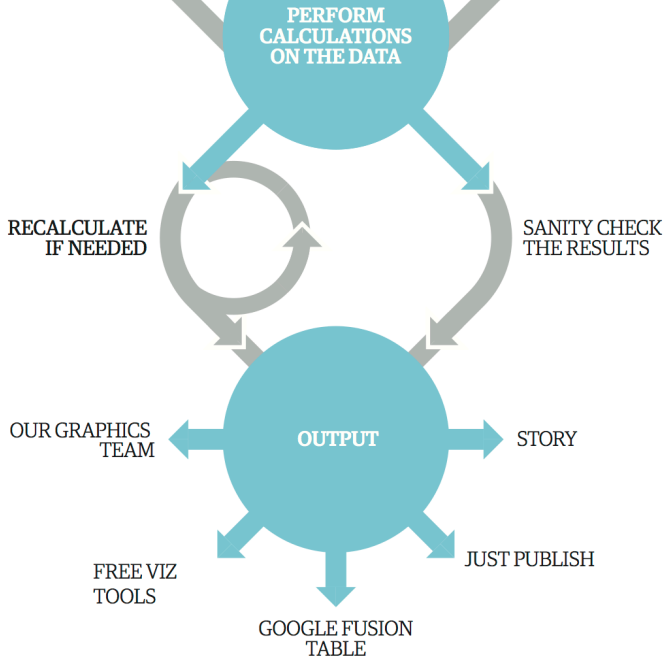


Finding a story is a creative process.

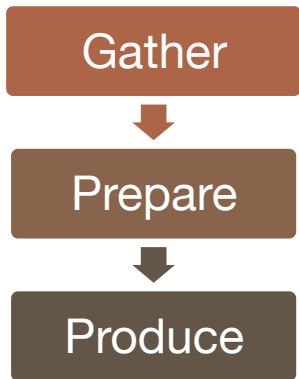
Let it percolate!







How should I budget my time?



1.1 **FIND** reliable data sources

1.2 Understand your **RIGHTS**

1.3 Visualise and **UNDERSTAND** your data

2.1 **CLEAN** your data

2.2 **TRANSFORM** it where useful

2.3 **COMBINE** it with other data sets

3.1 **REDUCE** and find the story

3.2 Think and understand the **CONTEXT**

3.3 Do your results pass a **SENSE-CHECK?**

Time planning

Gather

Produce

Prepare

2.1 CLEAN

2.2 TRANSFORM

2.3 COMBINE

2.4 ENRICH

2.5 ANALYSE

Validating and cleaning data

Inception points: cross filters, outliers and comparisons

Prepare (Stage 1)

Prepare

2.1 CLEAN

2.2 TRANSFORM

2.3 COMBINE

2.4 ENRICH

2.5 ANALYSE

Introducing Open Refine

Google Refine 2.0 - Introduction (1 of 3) (vide...

Google Refine government IT contracts More edit 2350 cells in column Type of Contract Undo New / Open ... Export Help

Facet / Filter Undo / Redo 5200 rows Extensions: Freebase

Default Reset All Remove All

Show as: rows records Show: 5 10 25 50 rows

Type of Contract change

591 choices Sort by: name clear Cluster

Agreement 30
HTES Task Order 30
CPAF 36
T&M w/ FFP: Time & Materials w/
Firm Fixed Price mix 26
Time and Material 27
Firm Fixed 26
Fixed 26
Firm Fixed Price 24
Labor Hours 11
Fixed 31
FFP LOE: Firm Fixed Price Level

	Contract ID	Contract Name	Type of Contract	Date of Award	Start Date	End Date	Total value of contract	Contract Awarded
1.	1533	ASAP SOFTWARE EXPRESS PAC DELL MINISTERS L.P	Microsoft Enterprise Agreement	04/01/2009	04/01/2009	06/30/2011	1.852	yes
2.	1540	BAE SOFTWARE DISTRIBUTION INCORPORATED	Remedy Service Desk Maintenance	04/01/2009	04/01/2009	03/01/2010	0.307	yes
3.	1541	GOVCONNECTION INCORPORATED	Class Smeared	05/01/2009	05/01/2009	04/30/2011	0.307	yes
4.	1542	ITS CORPORATION	Time & Materials	12/01/2008	01/01/2009	12/31/2011	20	yes
5.	1543	SENET INTERNATIONAL CORPORATION		05/04/2009	05/05/2009	07/03/2009	0.00157	yes
6.	1545			01/09/2009	01/08/2010	08/08/2010	0.758	yes
7.	1546	IT FEDERAL SA LIMITED LIABILITY COMPANY		1/04/2009	1/01/2009	06/25/2010	0.340	yes
8.	1547		Firm Fixed Price	08/09/2009	1/01/2010	04/30/2010	0.584	yes
9.	1548		Firm Fixed Price	11/05/2009	11/05/2009	05/30/2010	0.362	yes
10.	1549	REDHAWK IT SOLUTIONS LLC	Firm Fixed Price	01/02/2009	01/01/2010	12/31/2010	0.913	yes

0:00 / 6:48 YouTube

<http://openrefine.org>

Exercise

Validating and cleaning data exercise

Focus on sections:

- 2) Multiple representations
- 4) Summation records
- 5) Mixed use of numerical scales



Prepare

Prepare

2.1 CLEAN

2.2 TRANSFORM

2.3 COMBINE

2.4 ENRICH

2.5 ANALYSE

Enriching data and using pivot tables

We have information on
70,597,888 companies

 SEARCH

☒ search companies ☐ search officers

Filter by jurisdiction

1,298 [Abu Dhabi \(UAE\)](#)
144,755 [Alaska \(US\)](#)
40,157 [Albania](#)
899,455 [Arizona \(US\)](#)
46,537 [Aruba](#)
165,582 [Bahamas](#)
99,185 [Bahrain](#)
88,563 [Bangladesh](#)

Just released:
OpenCorporates API v0.3

Corporate network data,
financial accounts, complex
filters, and more. [Read more](#)

Get data access to over
60 million companies

Open data	Quality data	Unique data
<ul style="list-style-type: none"> All the data on the world's largest open database of companies Available in many languages, including open data or open data All the data on the world's largest open database of companies All the data on the world's largest open database of companies 	<ul style="list-style-type: none"> High quality, open data High quality, open data High quality, open data High quality, open data 	<ul style="list-style-type: none"> Open data and open data Open data and open data Open data and open data Open data and open data

Announcing Open LEIs

Today, OpenCorporates announces a new sister website, [Open LEIs](#), a user-friendly interface on the emerging Global Legal Entity Identifier System. [Read more](#)

OPENLEIs
A BETA VIEW ON THE LEI SYSTEM

New! Just added: Open corporate network data

[Read more](#) about this important new feature



Exercise

Enriching a dataset containing
company names (e.g. transactions)
with company data from
OpenCorporates



Sense-checking

The best way to sense-check is to get a second pair of eyes to help you.

Any stories of common mistakes you'd like to share?



Infographics: The good the bad and the ugly
Charts: What to use and when
Colour, popout and order

Session 4

Infographics

Recap

Gather

Produce

Prepare

3.1 REDUCE

3.2 CONTEXT

3.3 SENSE

Infographics (separate presentation)



Thank-you