

Pros and Cons of Secondary Data

Using Secondary Data in your Dissertation

Three Key Datasets

Data Analysis Software

Software

Excel SPSS

UK Police Data

The CCSS

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Researching Crime and Justice Workshop 7: Accessing Secondary Data

Jose Pina-Sánchez

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Workshop Goals

- Discuss advantages and disadvantages of secondary data
- Encourage you to use secondary data in your dissertations
- Highlight the most important repositories and datasets on the subject of Criminology/Criminal Justice
- Practice how to access those datasets
- Practice how to make sense of them using Excel and SPSS



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Primary and Secondary Data



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Primary and Secondary Data

 Primary data: information that is collected by the researcher themselves for their own research purposes



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Primary and Secondary Data

- Primary data: information that is collected by the researcher themselves for their own research purposes
- Secondary data: information that has already been collected or created by someone else, but can nonetheless be reused



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Primary and Secondary Data

- Primary data: information that is collected by the researcher themselves for their own research purposes
- Secondary data: information that has already been collected or created by someone else, but can nonetheless be reused
 - It is normally quantitative data but there is an increasingly growing body of qualitative data



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Pros and Cons of Primary Data

• Advantages:

• Disadvantages:



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Pros and Cons of Primary Data

- Advantages:
 - The researcher is able to gather exactly the information they need
- Disadvantages:



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Pros and Cons of Primary Data

• Advantages:

 The researcher is able to gather exactly the information they need

• Disadvantages:

- Expensive
- Time consuming
- The sample size is often small and the quality low



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Pros and Cons of Secondary Data

• Advantages:

- Quick to collect (relatively)
- Usually cheap to use
- Normally higher data quality

• Disadvantages:

- The researcher may not be able to gather exactly the information they need
- Although in the UK the sources of secondary data available to researchers are vast and often unexploited



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Secondary Research and Originality

- You might have heard research cannot be original if data has been 're-used'
 - This is suggested in the Research Excellence Framework
 - What 'old school' academics tend to think
 - We (the teaching team) profoundly disagree with this



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- You might have heard research cannot be original if data has been 're-used'
 - $-\,$ This is suggested in the Research Excellence Framework
 - What 'old school' academics tend to think
 - We (the teaching team) profoundly disagree with this
- There are lots of ways we can use secondary data in original ways
 - That is the point of the Big Data revolution
 - Recognised by new research funding schemes like the Alan Turing Institute, or the ESRC Secondary Data Analysis Initiative
 - Every year dozens of academic papers are published using just the CSEW
 - Is all research using government data (police data, the Census, stop and search statistics, etc.) not original?
 - Most of my research on sentencing uses data generated by the MoJ or the Sentencing Council



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Main Stages in the Research Process

- Research Question
- 2 Sampling
- 3 Data Collection
- 4 Data Analysis
- 5 Conclusions and Write up



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Secondary Data in your Dissertation

- We strongly recommend you use secondary data in your dissertation
 - Save you loads of time
 - Use high quality official data
 - As a default position I recommend that you review whether data is available to explore the topic of your interest first, only then, if there isn't anything useful, I would start considering generating my own data



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- There are still two(three?) main challenges associated to the use of secondary data, assuming it exists...
 - Finding the right data
 - Familiarising ourselves with the data (accessing the associated metadata)
 - 'Cleaning' that data
- We are going to practice some of that today

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Justice Statistics

The CSEW

- Crime Survey for England and Wales (CSEW)
- Used to measure crime (in its different forms) in England and Wales
- Together with police records, the most important dataset on crime in the country
- A victimisation survey, i.e. asking the general public whether they have experienced crime
- Helps in estimating report rates (i.e. crime reported to the police)
- Provides lots of contextual information (type of crime, area, individual characteristics, etc.)
- We will access it using the UK Data Service

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The CCSS

- The Crown Court Sentencing Survey (CCSS)
- Arguably one of the best datasets on the subject of sentencing in the world
- Aims to collect all sentences processed by the Crown Court
- It captures the type of offence, sentence outcome, and many of the aggravating and mitigating factors present in the case
- Covering the 2011-2015 period

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UK Police Data

• DATA.POLICE.UK

- Police data made recently available to the public
- Covering all crimes recorded from 2014 on
- Great level of detail (type of offence, location, etc.)
- Linked to data from the Crown Prosecution Service (CPS) and HM Courts and Tribunals Service (HMCTS)



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Excel (or any other spreadsheet software)

- By far the most widespread format used to deal with quantitative data
 - Lots of opensource versions equally good, e.g. LibreOffice Calc
- Quite intuitive, similar to handling a table in word
 - Can manipulate variables (columns) and cases (rows) directly
 - Which doesn't require any training
 - But can introduce errors
- Can be used to undertake statistical analyses
 - But much more limited than specialised statistical software (e.g. SPSS, R, STATA, SAS, etc.)
 - And more clumsy too
- In sum, good for some 'quick and dirty' data manipulations, and to carry out some simple descriptive statistics or graphs



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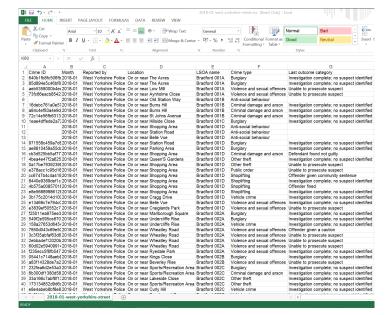
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Excel (data.police.uk)





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- Statistical Package for the Social Sciences
- Probably the most user-friendly statistical software out there
 - It can operate under a command-based format
 - $-\,$ But it is also built to be used under a 'point-and-click' format
- The most widely used statistical software
 - Certainly by Social Scientists
 - $-\,$ But also leading although not for long in all a cademic research



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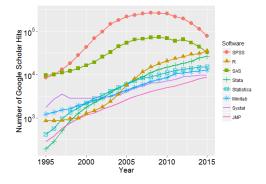
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- Installed in most of the computers in campus
- You can get it installed in your laptop at the IT helpdesk
- You can also access it using desktop anywhere



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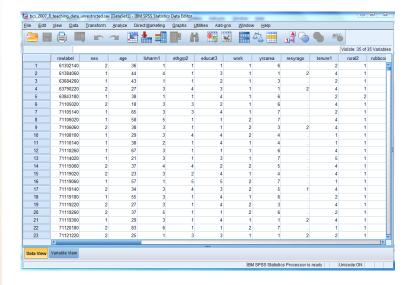
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SPSS Data View (the CSEW)





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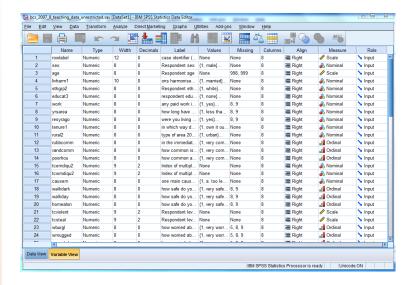
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SPSS Variable View (the CSEW)





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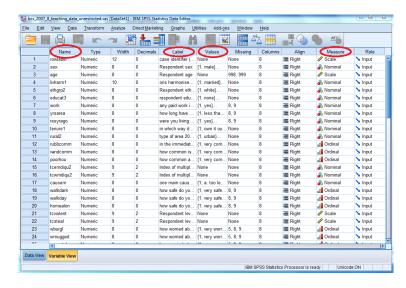
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SPSS Variable View (the CSEW)



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UK Police Data

- Let's have a look at some of the police crime records
 - Let's focus on West Yorkshire in 2017
 - And let's use that data to find out about monthly changes in total crime
- From now on it might be a good idea for you to work in couples
- To download the data we need to get on DATA.POLICE.UK
 - Click on 'Data' at the top menu (see next slide)
 - Select 'January 2017' to 'December 2017'
 - Select West Yorkshire
 - And click on 'Generate file'
 - It is that simple



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Downloading Data from DATA.POLICE.UK



Data downloads

Custom do	wnload	Archive	Boundaries	Open data	Statistical data	
_						
These CSV files provide street-level crime, outcome, and stop and search information, broken down by police force and 2011 lower layer super output area (LSOA).						
The Police Service of Northern Ireland does not currently provide stop and search data.						
The Folice defined in Notice in Real and does not durinity provide stop and search data.						
See the changelog for known data issues, and the about page for a description of each column in the CSV files.						
Date range:	January	2017 v to	March 2017			
Forces:	All for	rces				
	☐ Avon	and Somerset C	onstabulary		Bedfordshire Police	
	☐ British	Transport Police	e		Cambridgeshire Constabulary	
	☐ Chesh	nire Constabular	у		City of London Police	
	☐ Cleve	land Police			Cumbria Constabulary	
	☐ Derby	shire Constabul	ary		Devon & Cornwall Police	
	☐ Dorse	t Police			Durham Constabulary	
	☐ Dyfed	-Powys Police			Essex Police	
	Glouc	estershire Cons	tabulary		Greater Manchester Police	

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UK Police Data

- Before start exploring the data we need to familiarise ourselves with its 'metadata'
 - To understand where does the data come from
 - and what exactly is captured in each variable
- In the same page used to download the data, click on the link 'about page'
- Question: Can you find out the origin of the UK Police Data, and the information captured in each variable?



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UK Police Data

CSV Columns

The columns in the CSV files are as follows:

Field	Meaning			
Reported by	The force that provided the data about the crime.			
Falls within	At present, also the force that provided the data about the crime. This is currently being looked into and is likely to change in the near future.			
Longitude and Latitude	The anonymised coordinates of the crime. See <u>Location Anonymisation</u> for more information.			
LSOA code and LSOA name	References to the Lower Layer Super Output Area that the anonymised point falls into, according to the <u>LSOA</u> <u>boundaries</u> provided by the Office for National Statistics.			
Crime type	One of the crime types listed in the Police.UK FAQ.			
Last outcome category	A reference to whichever of the outcomes associated with the crime occurred most recently. For example, this crime 's "Last outcome category' would be "Formal action is not in the public interest".			
Context	A field provided for forces to provide additional human-readable data about individual crimes. Currently, for newly added CSVs, this is always empty.			

Data Provenance

The data on this site is published by the Home Office, and is provided to us by the 43 geographic police forces in England and Wales, the British Transport Police, the Police Service of Northern Ireland and the Ministry of Justice.

Data Flow

Every month each police force generates a <u>Crime and ASB file</u> and a <u>Police Outcomes file</u> in a set format. The forces upload these to a private server managed by the Home Office in the Government network, where the files undergo <u>quality</u> assurance.

Copies of the data from police forces is then sent to the Ministry of Justice (MoJ), where they try to <u>match the crimes with any court results</u> contained in their own records. The MoJ send any matching court results back to the Home Office, where they are integrated with the existing data.

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- This dataset is relatively simple
 - Only 12 variables
 - All of them pretty straightforward
- Let's now have a look at the data itself
 - Double click on the January file that you have downloaded
 - That will open the (.csv) file from Excel

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- We can use this data to replicate Farrell and Pease (1994)
 - Who showed high seasonality in domestic violence incidents using police data from Merseyside
- To do so we need the total number of cases recorded by West Yorkshire police each month
 - Go to the bottom of the spreadsheet and see how many cases are recorded
 - Open a new spreadsheet are write down that figure together with the name of the month
 - Repeat for each of the twelve files downloaded



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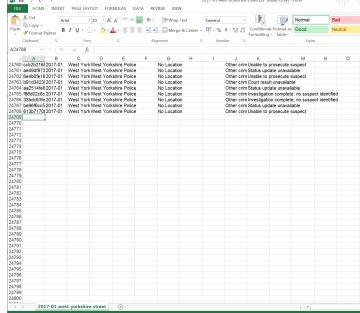
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Number of Cases Recorded per Month





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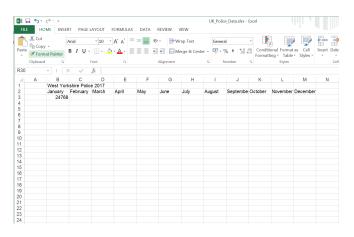
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Storing Results in a New Sheet



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Plotting Results

- We can then plot this data using a 'Line chart'
 - Click on 'Insert' at the top menu
 - Click on 'Line chart' and select the '2-D' format that you like
 - Right-click on the white rectangle and choose 'Select Data'
 - Click on the square-shaped button to the right of the menu 'Chart data range'
 - Then underline the cells where months and counts are recorded
 - Press 'OK'



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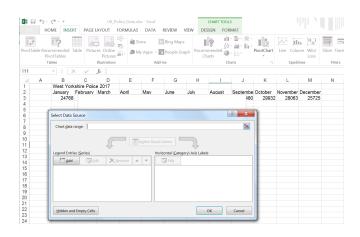
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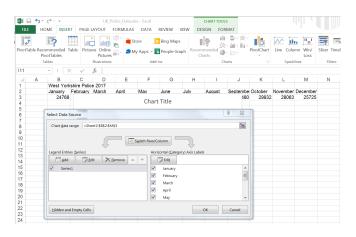
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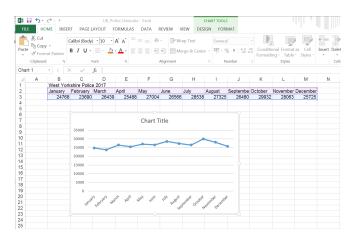
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- Can we corroborate Farrell and Pease (1994)?
 - Is there evidence of a seasonal effect?
 - Why might that be?
- This is just one question that we have used as an example
- There are lots of interesting questions that could be explored using this data
 - It is a real gold mine, yet few Criminologists are using it
 - Can be used to explore spatial crime patterns (e.g. displacement effects)
 - Changes in attrition rates associated to budget cuts
 - Changes in the prevalence of different types of crime
 - And a long etc.



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- Let's have a look at sentencing in the Crown Court
 - We can access fraud offences imposed in 2014, for example
 - And use that data to estimate gender disparities in sentencing
- To download the data go to sentencing council.org.uk
 - Click on 'Analysis and research' at the top menu
 - Click on 'Crown Court Sentencing Survey' on the left margin
 - Then 'CCSS underlying data'
 - Scroll down and you will find links to the 'User Guide', 'Metadata', and the actual 'Datasets'
 - Just like the UK Police Data this is really easy to access
 - Click on the three links to open/download them



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Crown Court Sentencing Survey underlying data

The data underlying the Crown Court Sentencing Survey publication are available for download below, in the format of CSV files. These files contain anonymised data for each individual record or offender recorded in the survey. These data are most commonly referred to as 'record level data' and can be used for analysis.

An accompanying metadata document and guide containing important information on the use and interpretation of the data are also available. It is strongly recommended that these documents are read before the datasets are used for analysis.

REVISION: An error was identified in the sexual offences dataset for 2014, which affected the data on culpability factors. This has now been rectified and a revised dataset has been published.

Coverage: England and Wales

Period:

1 January 2011 to 31 December 2011

1 January 2012 to 31 March 2012

1 April 2012 to 31 December 2012



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Period:

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1 January 2013 to 31 December 2013

1 January 2014 to 31 December 2014

1 January 2015 to 31 March 2015

- User Guide
- Metadata document
- Datasets



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Conglucion

- The User Guide provides general information about the origin of the dataset
 - The questionnaire that was used
 - Strategies followed to deal with missing data
 - List of variables contained, etc.
 - Containing around 40 variables (depending on the offence type), more complex than data from uk.police
- The Metadata file provides additional information on...
 - The variable name
 - Variable description
 - Coding system ('Values'), etc.
- It is really important that you familiarise yourselves with this kind of information when using secondary data



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- Let's use the CCSS to replicate Pina-Sánchez and Harris (In Press)
 - Who found that male offenders were two times more likely to receive a custodial sentence than female offenders
 - The authors used assault, theft, and drugs offences
 - Question: Are similar disparities present when looking at fraud offences?
 - A more impersonal crime, where gender stereotypes might not play such a strong effect



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 - Question: Are similar disparities present when looking at fraud offences?
 - A more impersonal crime, where gender stereotypes might not play such a strong effect
- Let's explore first the Metadata file
 - Question: Can you find out what is the variable name and values used to capture the offender's gender?
 - And the sentence outcome imposed on him/her?
 - Click on either 'Main file' or 'Fraud' at the bottom menu of the spreadsheet
 - Both gender and sentence outcome are amongst the first ten variables



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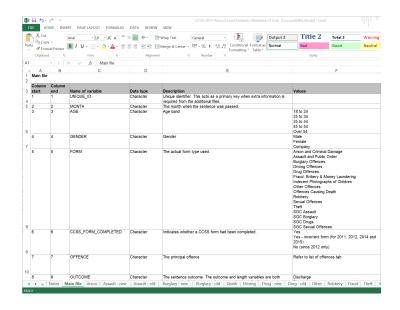
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Creating a Pivot Table

- To compare probabilities of receiving a custodial sentence we can use a pivot table
- First we need a new variable capturing whether the defendant received a custodial sentence
 - Scroll right and find the first empty column (CB)
 - Call it 'Custody'
 - Click on the second row in that same column
 - Click on 'Formulas' at the top menu, select 'Logical', then 'IF'
 - In the Logical_test box enter the following command:
 F2="Immediate custody"
 - In the 'Value_if_true' box type 1, in 'Value_if_false' box type 0
 - Click 'OK' and drag the formula through the sample size (until row 531)
 - To do that click on the bottom-right corner of cell where the formula was introduced and drag it down
 - Check that the new variable is correctly coding cases sentenced to custody as 1s (you can do so by comparing it with 'OUTCOME' in column F)



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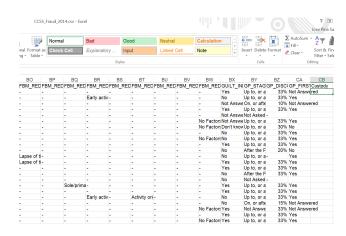
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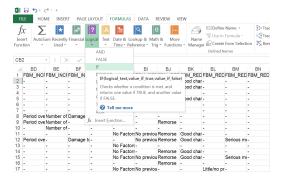
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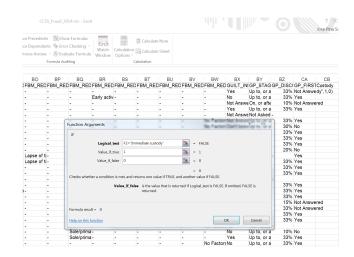
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- We can now create a pivot table to compare the probabilities of receiving a custodial sentence for male and female offenders
 - Click on 'INSERT' at the top menu, then on 'PivotTable' at the top-left corner
 - A new menu will pop-up, press 'OK' and you will be redirected to a new sheet
 - Tick 'GENDER' and move it to the 'ROWS' box
 - Tick 'Custody' and move it to the 'VALUES' box
 - That will give you the number of cases sentenced to custody by gender
 - Right click 'Sum of counts' and go to 'Value Field Settings'
 - Select 'Average'
 - That gives you the proportion of male and female offenders receiving a custodial sentence
- Question: Which is higher? Do we corroborate or refute Pina-Sánchez and Harris (In Press)?



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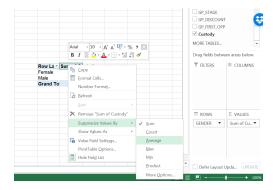
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The UK Data Service

- A truly fantastic repository of data
 - Available to UK researchers and students
 - Stores national surveys (including the CSEW), official statistics like the Census, but also datasets created by individual researchers
 - Each dataset includes a description of the mode of data collection, sampling design, and meets certain quality criteria

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- Stores national surveys (including the CSEW), official statistics like the Census, but also datasets created by individual researchers
- Each dataset includes a description of the mode of data collection, sampling design, and meets certain quality criteria
- Only a small fraction of the data is fully open
 - Different levels of access to data depending to how sensitive it is
 - To see what is completely open get into the <u>UK Data Service</u>
 - Click on 'Get data' at the top and on 'Open data' on the left-margin
 - You will find a summary of the types of open data available with links to them



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Open data

It is our explicit long-term goal to work with data owners to identify and remove all unnecessary barriers to access.

An increasing number of our datasets are available without registration or authentication using open data licences described in our Data Access Policy. These data are for use with an open licence and are not classified as personal. We are also working to gain open data certification via the Open Data Institute.

We also provide links to other open data resources that may be of interest.

Census data International Qualitative data Survey data macrodata
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Many of the UK Census data we hold are available without registration or authentication, via the Open Government Licence

Census aggregate data

- 2001 and 2011 Census data Explore via InFuse | About census aggregate data
- · 1971 to 2001 Census data
 - Explore via Casweb | About census aggregate data

Census flow data

- · 1981, 1991, 2001 and 2011 Census data Explore via WICID I About census flow data
- Census boundary data
 - . 1981, 1991, 2001 and 2011 Census data, as well as other boundaries Explore via Boundary Data Selector | About census boundary data

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Accessing Data

- Alternatively you can look for data (open or not) using a keyword search
- Let's access a teaching (open) version of the CSEW
- Click on 'Get data' at the top menu
 - Then enter 'Crime Survey for England and Wales' in the keyword search box
 - You will find that there are lots of versions of the CSEW, depending on their degree of access and their date of publication
 - Click on the empty box beneath 'Access' on the left margin
 - Select 'Open'
 - Then click on 'Crime Survey for England and Wales, 2013-2014: Unrestricted Access Teaching Dataset'



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Search and browse our data collections and related publications.

The UK Data Service provides access to over 7,000 digital data collections for research and teaching purposes covering an extensive range of key economic and social data, both quantitative and qualitative, and spanning many disciplines and themes.



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Key data in our collection:

UK surveys
Cross-national surveys
Longitudinal studies
Census data
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crime survey for england and wales Q Variable and question bank > QualiBank > STUDIES (148) SERIES (3) Displaying 1 - 5 of 5 results for 'crime survey for england and wales' Page 1 of 1 Date from: Date to: 2019 440 Results per page: Sort by: Relevance Refine date 10 SN 8011 | Crime Survey for England and Wales, 2013-2014: Unrestricted Access Teaching Dataset Topic: University of Manchester Office for National Statistics Data Type: SN 6891 British Crime Survey 2007-2008: Unrestricted Access Teaching Dataset University of Manchester Access: Open SN 851496 Transcription textGrids for the audio edition of the British National Corpus Coleman, J. University of Oxford Country: SN 852096 | Criminal justice statistics and sexual offences (England and Wales) 1918-1970 Jackson, L, University of Edinburgh Reset filters SN 4359 Prison Reading Survey, 1997 Rice, Michael



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Crime Survey for England and Wales, 2013-2014: Unrestricted Access Teaching Dataset

Details	Documentation	Resources	Access data

Documentation

Title	File name	Size (MB)
Study information and citation	UKDA_Study_8011_Information.htm	0.01
Teaching Dataset User Guide, 2016	8011_user_guide_csew_2013- 14_teaching_dataset.pdf	0.28
UK Data Archive Information for Study 8011	read8011.htm	0.01



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Accessing the CSEW

- To see what is in this version of the CSEW download the User Guide
 - Click on the 'Documentation' tab
 - Download the 'Teaching Dataset User Guide, 2016'
- Here you will find:
 - A short description of the CSEW
 - The data collection process (sampling strategy, questionnaire design, mode of data collection, etc.)
 - Information on the content of each variable, including...
 - The variable name: a one word summary of the content of a variable (e.g. yrsarea)
 - The variable label: a longer description of that variable (e.g. How long lived in this area?)
 - The variable coding system: the numeric value given to each possible response (e.g. 1 for Less than a month, 2 for 12 months but less than 2 years, etc.)
- As before, it is really important that you familiarise yourselves with this information



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Figuring out What Is in the CSEW

- How does the sample look like?
 - What is the mode of data collection
 - What is the sample size?
- Any information on respondents' ethnicity?
 - What is the name of the variable containing that information?
 - How is it coded?
 - How is it broken down by ethnicity?
 - Is it representative of the UK population?
 - Are there any missing cases?
 - Why do you think that is?
- Any information on fear of crime?
 - What would you use to provide a succinct estimate about the level of fear of crime in England and Wales in 2013/14?



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Exploring the CSEW

- After we get an idea of what kind of information is in the dataset we can start exploring it
- \bullet Download the SPSS version of the 2013/14 teaching version of the CSEW
 - Click on 'Access data' then on the SPSS 'Download' link
 - You will get a zipped folder, open it, open the 'SPSS' subfolder
 - Double click on the file 'csew1314teachingopen.sav' to open the dataset from SPSS
- Now we can start 'playing' with this data



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Exploring the CSEW

- We can find out about people's perception on the prevalence of vandalism and graffiti in the areas they live
 - This could be answered by looking at a frequency table
 - First identify the variable capturing perceived prevalence of vandalism and graffiti
 - Then go to 'Analyze' at the top menu
 - Select 'Descriptive Statistics' and 'Frequencies'
 - Double-click on the variable that we want to explore and press 'OK'
 - Question: How common is vandalism or graffiti in England and Wales?



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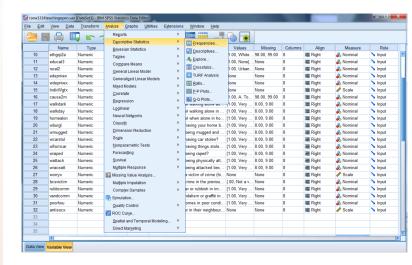
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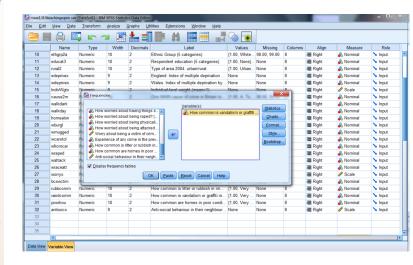
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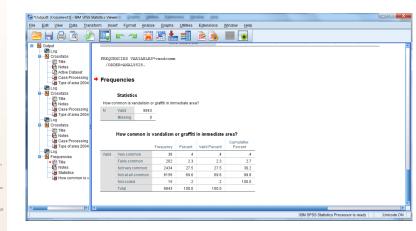
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Exploring the CSEW

- We can also examine which areas seem to be more commonly affected by vandalism
 - For example we can compare the prevalence of vandalism in rural and urban areas
 - This could be answered using a cross-tab
 - As before, go to 'Analyze' and 'Descriptive Statistics'
 - but now click on 'Crosstabs'
 - Place vandalism on the 'Column' box and type of area on the 'Row' box
 - Click on 'Cells', at the right-hand side of the Crosstabs menu
 - And tick 'Row'
 - You can now click on 'Continue' and 'OK'
 - Question: Which area seems to be more affected by vandalism?
- We will carry on exploring the CSEW and using SPSS next term



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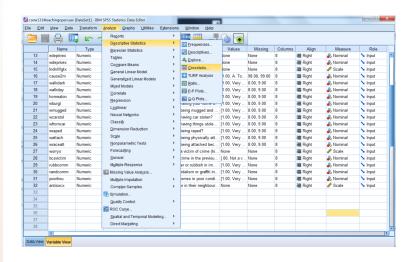
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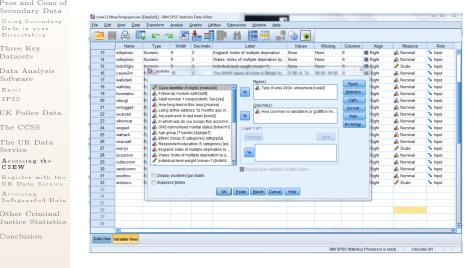
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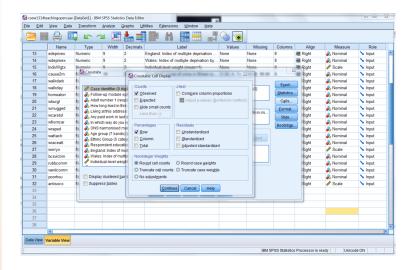
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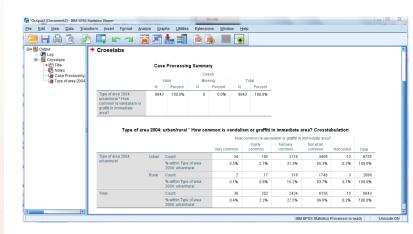
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Register with the UK Data Service

- Being a student of an UK University you can register with the UK Data Service
- And access most of the datasets stored in the archive
- Let's do so now
 - Go to <u>ukdataservice.ac.uk</u>
 - Click on 'Register/Login' at the top-right corner
 - It will ask you to sign in your Leeds account if you are not already signed in
 - Enter the requested details
 - You should end up in page indicating 'My account'



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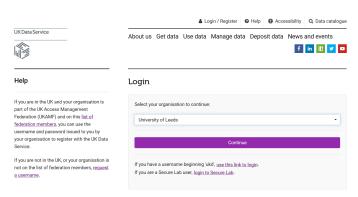
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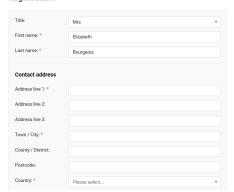
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Welcome to your account with the UK Data Service. Here you can keep track of your data downloads and access requests, projects and data deposits.

If you have already added one or more datasets to your account, you will need to assign them to a project before you can view them. If you have been redirected here after registering with the UK Data Service or after logging in to your account, you can use the data catalogue link at the top of this page to search datasets within our collection.

If you have been redirected from a partner website, this is because your action relates to data within our collection, so please return to your original website.

Each page features a page guide in the top-right corner, providing further information and instructions.

Data

Туре	Total
Projects	0
Datasets awaiting assignment	0
Datasets awaiting action	0

Deposits

Туре	Total
Datasets	0
Licences	0

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Exploring the UK Data Service

- Now you are registered with the UK Data Service
 - You can access much of the data stored in there
 - In principle any dataset labelled as 'Open' or 'Safeguarded'
- Let's see if we can find a dataset that could be useful to your dissertation
 - Run a keyword search for a topic of your interest (I am using 'fraud' in the example in the next slide)
 - Notice the different forms of 'Data Type' available on the left margin (Survey data, big data, longitudinal data, qualitative data)
 - Restrict the search to 'Safeguarded' in the 'Access' criteria
 - Spend some time looking around for a dataset of your interest
 - Put it aside for now (e.g. right-click on it to open it in another tab of your browser)
 - We are going to try to access it, but before we need to create a 'Project'



Pros and Cons of Secondary Data

Using Secondary Data in your

Three Key

Data Analysis Software

Software

SPSS

UK Police Data

The CCSS

The UK Data

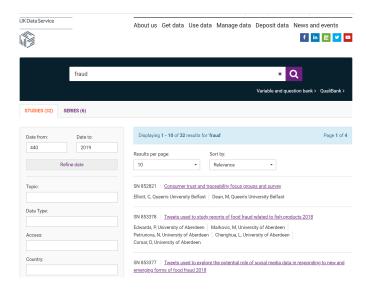
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Accessing 'Safeguarded' Data

- \bullet Let's see how to create a 'Project' to access the full version of the 2017-2018 CSEW
 - The latest version available
 - Providing the full sample (24,715 cases) and the full list of variables (2,996)
- You can follow the same steps to access another dataset of your interest
 - Click on 'My Account' at the top menu, and on 'Data' and 'Projects' on the left menu
 - Click on 'Create a new project'
 - Type in a title (e.g. 'Dissertation')
 - Choose 'Non-commercial' as the 'Project-type'
 - Write down an abstract of your research project (100 characters minimum)
 - Then click on 'Create project'



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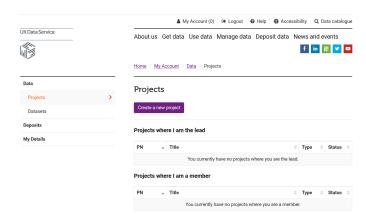
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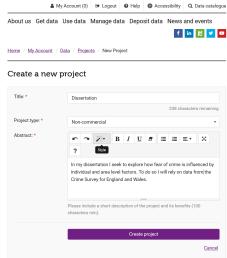
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Accessing your Dataset of Interest

- Once the project is created you need to go back to the dataset you want to access (in our case the 2017-2018 CSEW)
 - Go to the main page of the UK Data Service, type 'Crime Survey for England and Wales' in the search box
 - Click on 'Crime Survey for England and Wales 2017-2018'
 - Click on 'Access data' and 'Add to account'
 - Tick the dataset and click on 'Add to Project'
 - Tick 'Add to an existing project', choose 'Dissertation', then click 'Add to project'
 - You should be able to download the data now, choose the SPSS format if available
 - Once downloaded open it from SPSS to start exploring it



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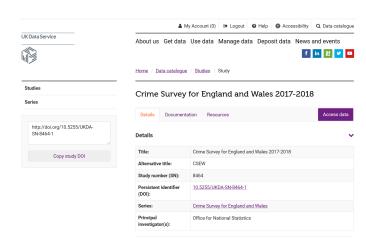
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Going back to your Data of Interest





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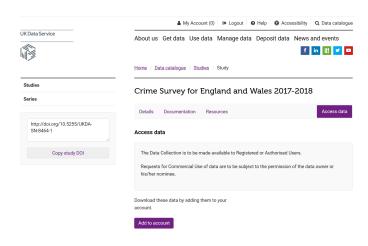
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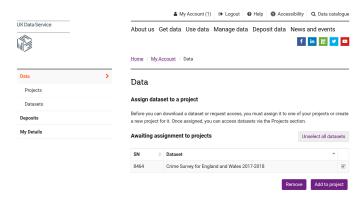
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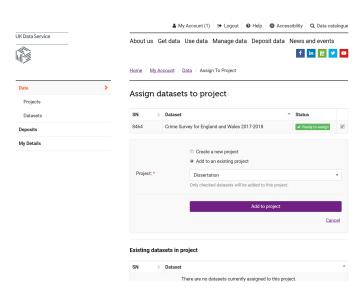
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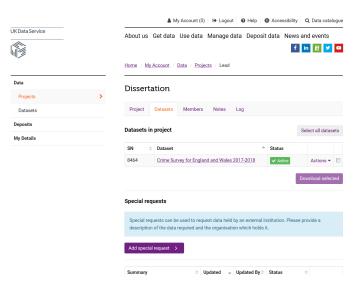
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Other Criminal Justice Statistics

- Criminal court statistics
- Prison population statistics
- Terrorism Act 2000 statistics
- Seizure of drugs statistics
- Crime against business statistics
- Youth Justice statistics
- All of the above and more are compiled <u>here</u>
- If interested in American data check the National Archive of Criminal Justice Data

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Final Message

- Invest time looking for secondary data
 - It is possible that the data you are looking for does not exist
 - but it is generally a very good idea to start any research by reviewing what kind of data on the topic is available
 - It is an effort that tends to pay off more often than not
- $\bullet\,$ Next term we will get started analysing the CSEW using SPSS