Investigating language spoken in the UK - what data can I use?

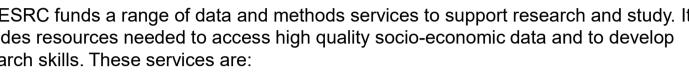
Dr Alita Nandi, Essex (Understanding Society)
Dr Oliver Duke-Williams, UCL (UK Data Service)
Dr Jemima Stockton, UCL (CeLSIUS)

25th March 2020

ESRC Data and Methods Services:

supporting research and providing training

The ESRC funds a range of data and methods services to support research and study. It provides resources needed to access high quality socio-economic data and to develop research skills. These services are:





Administrative Data Research **Network**

www.adrn.ac.uk



Census & Administrative Data Longitudinal Studies Hub

www.calls.ac.uk



Centre for Longitudinal **Studies**

www.cls.ucl.ac.uk



Consumer Data Research Centre

www.cdrc.ac.uk





CLOSER www.closer.ac.uk



ESRC Business and Local Government Data Research Centre

www.blgdataresearch. org



National Centre of Research Methods

www.ncrm.ac.uk

UK Data Service

UK Data Service www.ukdataservice. ac.uk



Understanding Society

www.understandings ociety.ac.uk



Urban Big Data Centre

www.ubdc.ac.uk

Forthcoming Events

- You may also be interested in future webinars in this series
 - Mental health: (9 December 2019
 - Religion: (18 March 2020)
 - Language spoken: (25 March 2020)
 - Political behaviour (1 April 2020)
- See: https://www.ukdataservice.ac.uk/news-and-events/events for details

The webinar today

Alita

Understanding Society

Oliver

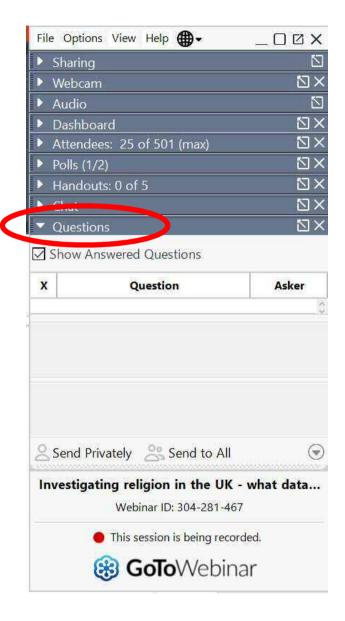
Cross-sectional census data

Jemima

Longitudinal census data

Questions

 Type your questions into the questions box - we will answer them at the end





Languages in the census

Dr Oliver Duke-Williams, UCL

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Webinar: March 25th 2020



Background

- GCHQ: "There are 42 languages spoken across our workforce"
 - Is this higher or lower than we might expect?









A related query

- Where is the most linguistically diverse place in the UK?
 - What do we mean by this?
 - What data can be used to answer this?
 - How easy is it to find an answer?







Questions on language used

- The questions asked in different parts of the UK in 2011 were not the same
- Questions
 - Longstanding questions on traditional languages
 - Use of Welsh / Scottish Gaelic / Irish / Ulster-Scots
 - From 2011, questions on use of other languages
 - Main language used / other language used
 - For non-English speakers: proficiency in English





2011 Census forms



England

☐ English → Go to 20				
	Other, write in (including British Sign Language)			

Wales

13 Bet	h yw eich prif iaith?			
☐ Cymraeg neu Saesneg → Ewch i 20				
	Arall, nodwch (gan gynnwys Iaith Arwyddion Prydain)			

Northern Ireland

nat is your main language? English Goto 21
Other, write in (including British/Irish Sign Languages)

Scotland

18	Do you use a language other than English at home?			
	♦ Tick all that apply.			
	No, English only			
	Yes, British Sign Language			
	Yes, other - please write in			

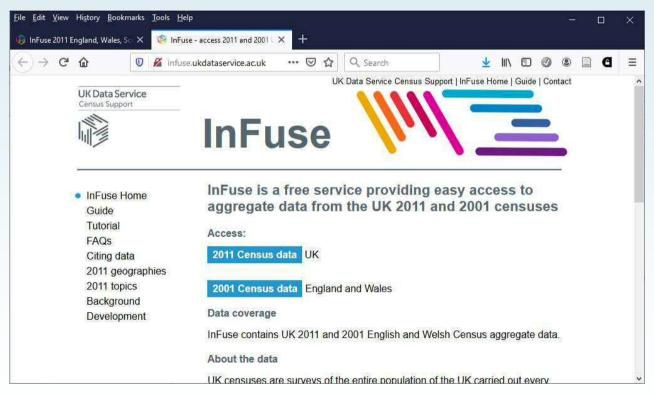






Getting data on languages used

InFuse

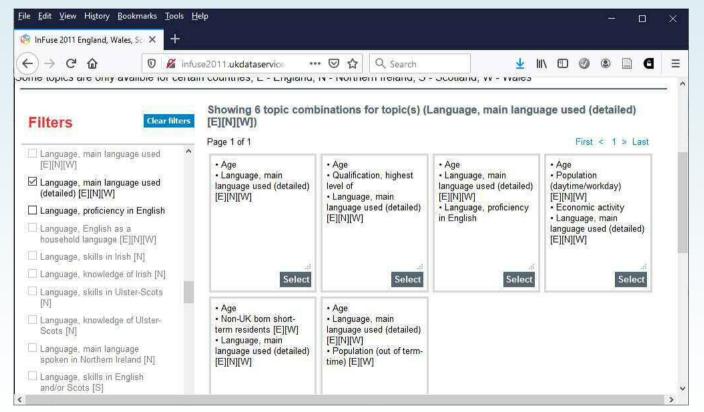


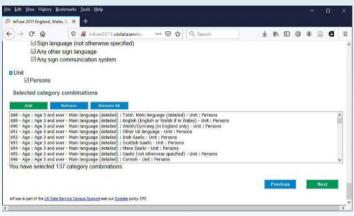


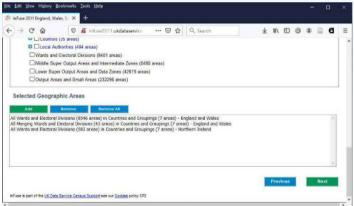




Getting data: England and Wales, Northern Ireland





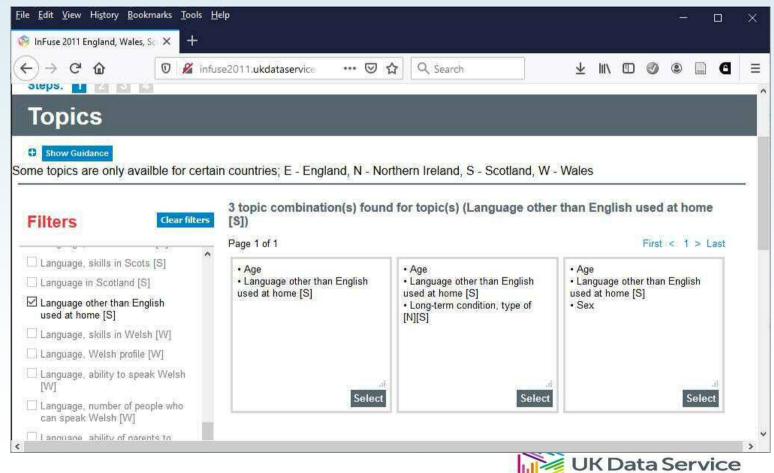








Getting data: Scotland





Economic and Social Research Council



Numbers of different languages tabulated

Country	Languages (inc. English and 'Other')
England and Wales	92
Scotland	4
Northern Ireland	13

- Additional tables in Scotland
 - http://www.scotlandscensus.gov.uk/documents/additional_tables/AT_002_2011.xls Scotland, all languages
 - http://www.scotlandscensus.gov.uk/documents/additional_tables/CT_0267_2011.xlsx Scotland, by datazone, 17 languages







Top ten languages used at home, Scotland 2011

Language category (by descending number of people)	Scotland
All people aged 3 and over	5,118,223
English only	4,740,547
Scots	55,817
Polish	54,186
Urdu	23,394
Punjabi (Not otherwise specified)	23,150
Chinese (Not otherwise specified)	16,830
French	14,623
Gaelic (Not otherwise specified)	14,531
British Sign Language	12,533
German	11,317

Source: 2011 Census, NRS, Table AT_002_2011







Joining these together

- Data need to be assembled from several sources to attempt to answer the question linguistic diversity
 - Separate tables in InFuse for different parts of the UK
 - Data for England and Wales and Northern Ireland at ward level
 - Data for Scotland replaced with more detailed NRS data at datazone level
 - Data mapped using boundaries from https://borders.ukdataservice.ac.uk/
 - Mapped: the number of languages for which speakers are at least 1% of the ward / datazone population

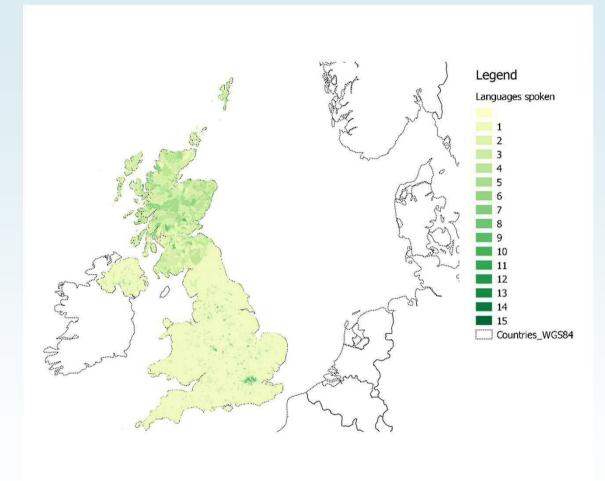






Number of languages spoken by at least 1% of ward population

- Key thing to note
 - Different question asked in Scotland – results not necessarily comparable
 - Northern Ireland data: same question as E&W, but range of result categories smaller

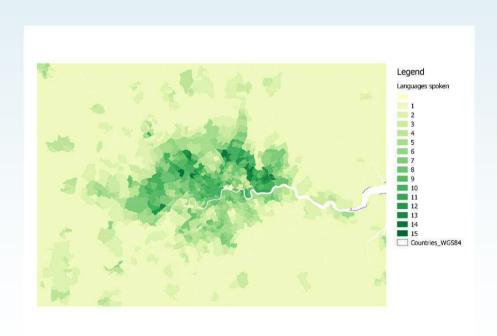


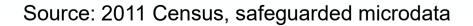
Source: 2011 Census, safeguarded microdata





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Census microdata

- Microdata files contain almost all fields from the census forms except personal identifiers such as name and address
 - Some values are broad coded etc
- Secure files have stronger access restrictions but offer greater detail
- Safeguarded files are easy for academic researchers to use, have restricted detail in some cases





Census microdata files



		Open	Safeguarded	Secure
1961 / 1971 / 1981	Individuals	1% (GB)	5% (GB)	9% (GB)
	Households		0.95% (GB)	
1991	Individuals		2% (GB,NI)	
	Households		1% (GB,NI)	
2001	Individuals		3% (UK)	
	Households			1% (EW)
	'Small Area Microdata'		5% (UK)	
2011	Individual		5% (EW,S,NI)	10% (EW,S,NI)
	Households			10% (EW,S,NI)
	Individual ('Teaching')	1% (EW,S,NI)		







2011 microdata files and languages

	Open	Safeguarded	Secure
England and Wales	-	9	600+
Scotland	-	11	600+
Northern Ireland	-	13	600+

- Safeguarded data via UK Data Service
 - https://census.ukdataservice.ac.uk/get-data/microdata.aspx
- Secure data
 - Accreditation required; access via statistical agency secure settings





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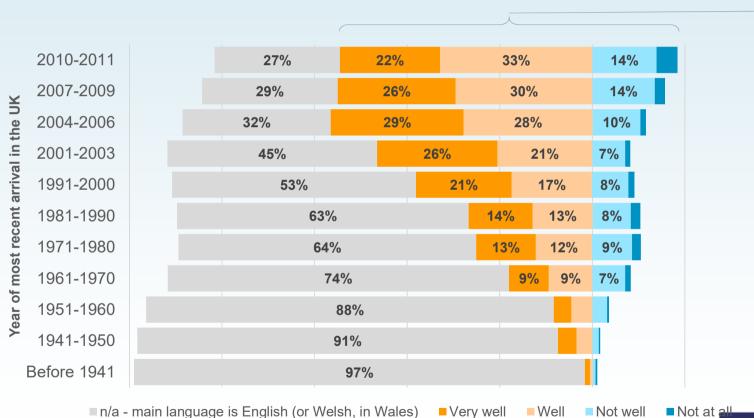
- For almost all languages, the majority of people who use that main language also report good English proficiency
 - Exceptions: very small numbers of speakers; signed languages
 - Also true at regional level







"How well can you speak English?" (amongst 2011 Census (England and Wales) respondents not born in UK)



Main language is not English (or Welsh, in Wales)

Source: 2011 Census, safeguarded microdata





UCL





Questions

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