

Australian Academy of the Humanities' 2nd Humanities, Arts and Culture Data Summit and

3rd international DARIAH Beyond Europe workshop



#DARIAHBeyondEurope #HACDS2019

Towards an Australian Language Data Commons

Lessons from the Australian National Corpus

Michael Haugh and Simon Musgrave



CREATE CHANGE

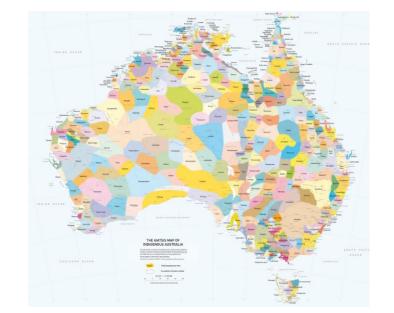


Language data

Inclusive notion of text as spoken, written,

signed, multimodal



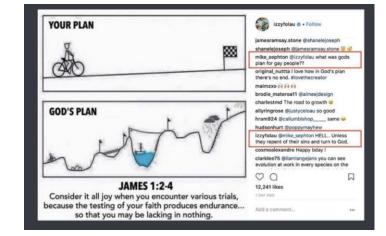


institutional

non-institutional



scrabbling. 49. (0.6) 50. A: hh .hh 51. (1.0) 52. T: °like a mousemat, 129. (1.1) 130. A: hhh (0.3) no?= 131. T: =does it again fuck that 29. (1.5) 30. A: hhhh just go around 31. in circles you insane 204. (1.0) 205. A: hh 206. B: like seriously (.) like different dialects< (0.6) 67. A: hh [.hh] 68. B: [bei]ng my luck but 6. after a week (1.4) 7. D: hhhh (.h) hhh: 8. A: [of me being full of a shit 38. (2.2) 39. A: hh: (.) ↑I don't say ↓that he'll 50. D: =yeah 51. (1.2) 52. A: hhhh HHHH hh (.hh) ↑your ↓Hair ↓ney in my bank (0.6) 236. A: hhh(h) (0.3) 237. D: like (1.0) 184. A: (hm) 185. (1.0) 186. L: hh .h hh 187. A: see: I'm- <I ca 24. D: °yeah° 25. (2.3) 26. A: hhhhhhhhhh 27. (1.2) 28. D: a good



Why do we need a national language data commons?

Multilingual Australia

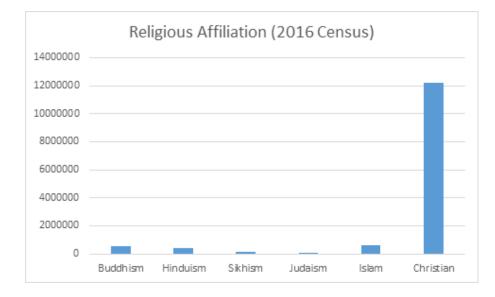


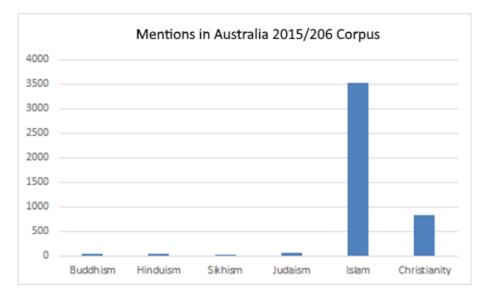
- Australia has **no** official language
- English is Australia's *de facto* national language (only English spoken at home by 72.7% or approx. 17 million people)
- But more than **430 different languages** are spoken in Australia
- Australian Indigenous languages are spoken by 0.3% of the population, or approx. 65,000 people
- 22.2% of the Australian population speaks another language at home

(Australian Bureau of Statistics, 2016 Census)

Social policy implications

- Social cohesion: local and national
- Tracking attitudes to race and religion over time

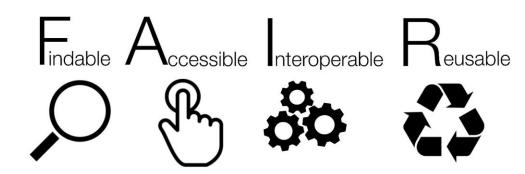




Supporting citizen science

- Language lies at the core of **cultural well-being** and Australians have an enduring interest in language
- Language **belongs to people**, to communities, to the nation
- There is a strong moral case for **democraticising** access to language data for Australians

What do researchers need?



- Language data can be infinitely repurposed
- Linguistics is increasingly data driven
- Australian researchers need language data that is Findable
 - Accessible
 - Interoperable
 - **R**esuable

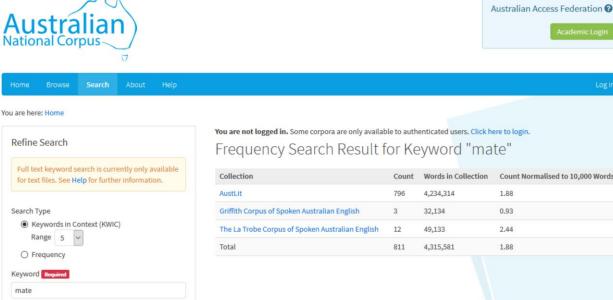
Australian National Corpus

Intentions, limitations, lessons



The Australian National Corpus initiative

- Aimed to collect and provide access to data on language in Australia
- Built on existing collections: ACE, ART, Braided Channels, COOEE, GCSAusE, ICE-AUS, MCE, LTCE (+ samples from AustLit, Mitchell & Delbridge)



Key challenges

- Location of data but also sharing data
- Building a multi-purpose interface
- Copyright and ethical problems

 especially for legacy data

GCSAusE06 (Raw)

Item metadata		
Speaker:	participant,GCSAusE06 - Participant 1,26 participant,GCSAusE06 - Participant 5,25 participant,GCSAusE06 - Participant 2,27 participant,GCSAusE06 - Participant 4,18	^
Contributor :	participant,GCSAusE06 - Participant 3,23 Loanne Dang	
Date Transcribed :	7 October 2009	
Description :	A transcribed conversation between five housemates that occurred at home. Jackson, Paul and Frank are brothers.	
Ethics Approval Number :	LAL/07/HREC	
Participants :	Darren (26, Australia, male, L1 English, AU, Secondary, Builder) Nate (27, Australia, male, L1 English, AU, Secondary, Crane Riggs) Jackson (23, Australia, male, L1 English, AU, Secondary, Form Worker) Paul (18, Australia, male, L1 English, AU, Secondary, Form Worker) Frank (25, Australia, male, L1 English, AU, Secondary, Apprentice Electrician)	
Transcribers :	Loanne Dang (April 2009)	
Audience :	Small Group	

File contents

Transcript Coversheet	
	Data
Title	GCSAUSE06
 Number of people	5
 Description at	$ \ensuremath{A}\xspace$ transcribed conversation between five housemates that occurred
	home. Jackson, Paul and Frank are brothers.
Participants	Darren (26, Australia, male, L1 English, AU, Secondary, Builder)
	Nate (27, Australia, male, L1 English, AU, Secondary, Crane Riggs)
 Worker)	Jackson (23, Australia, male, L1 English, AU, Secondary, Form
	Paul (18, Australia, male, L1 English, AU, Secondary, Form Worker)
	Frank (25, Australia, male, L1 English, AU, Secondary, Apprentice
	Electrician)

(Unintended) consequences of decisions

- Homogenising data (multiple versions of data)
- Location of people, relation to funding sources, tie to one institution all become problematic
- Version control sharing with Alveo
- Constructing the platform was a short-term project: whose responsibility is it to add new data?

Towards an Australian Language Data Commons

Federating Australia's language data

- One quarter of the world's languages are spoken in the Pacific South West – many of these are endangered languages
- Australian researchers have collaborated on curating data on many of these languages: (1) Australian indigenous languages, (2) indigenous languages in Australia's region, (3) Australian English(es), (4) Australian community languages







Things to do differently

- Sustainable governance is important: independent from individual institutions (and personalities) as far as possible
- Equitable and ethical access to language data is the primary goal tools for analysing language data remain separate
- Ensuring adherence to **metadata standards** more important than imposing data standards as language data can be highly granular
- Representativeness is not a goal, but possibility of building representative sub-collections (in various ways, for various purposes)

Expanding the circle

- Australian Language Data Commons as a node of a HASS Data Commons
- Currently in consultation with AIATSIS



- Trove and Pandora as (largely untapped) resources for linguistic research
- Australian broadcasters...

Expanding research strategies

- Aggregation of data is a cost-effective way to enable access to large data sets
- But then we are challenged to find ways to **exploit** such resources
- Example: combinatorial search across collections to assemble candidate sets of examples (Haugh & Musgrave 2018)
- Working with a language data commons opens new possibilities:
 - New research questions
 - New research methods