

#### 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

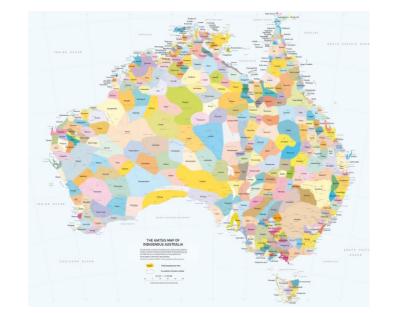


#### Language data

Inclusive notion of text as spoken, written,

signed, multimodal



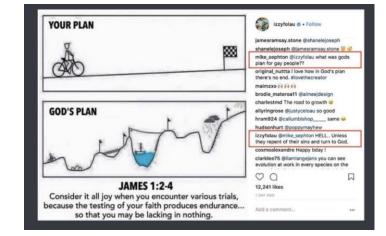


institutional 

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

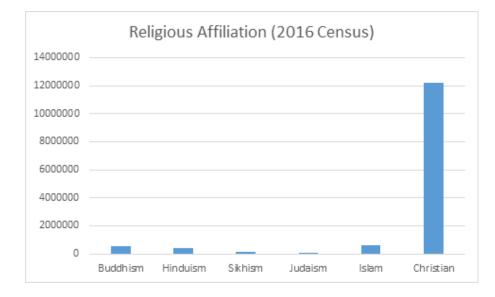


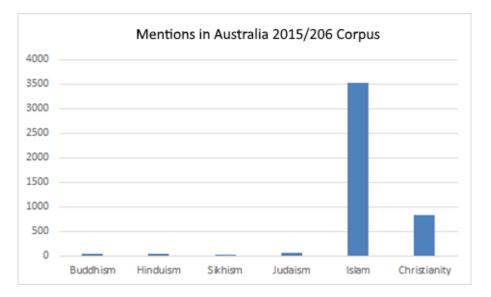
- Australia has **no** official language
- English is Australia's *de facto* national language (only English spoken at home by 72.7% or approx. 17 million people)
- But more than **430 different languages** are spoken in Australia
- Australian Indigenous languages are spoken by 0.3% of the population,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

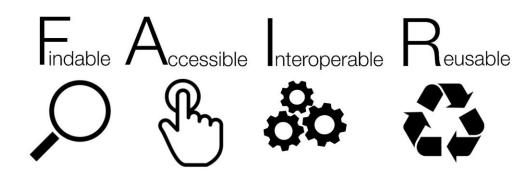




#### Supporting citizen science

- 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

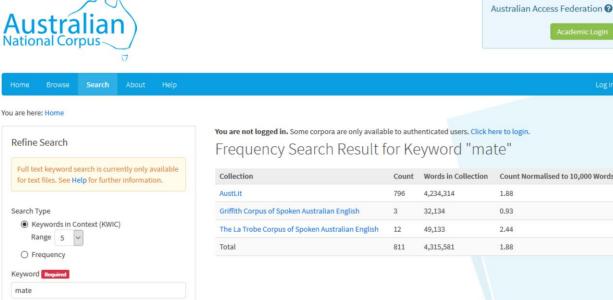
## Australian National Corpus

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<br>participant,GCSAusE06 - Participant 5,25<br>participant,GCSAusE06 - Participant 2,27<br>participant,GCSAusE06 - Participant 4,18   | ^ |
| Contributor :            | participant,GCSAusE06 - Participant 3,23<br>Loanne Dang  |   |
| Date Transcribed :       | 7 October 2009   |   |
| Description :            | A transcribed conversation between five housemates that occurred at home. Jackson,<br>Paul and Frank are brothers.   |   |
| Ethics Approval Number : | LAL/07/HREC  |   |
| Participants :           | Darren (26, Australia, male, L1 English, AU, Secondary, Builder) Nate (27, Australia,<br>male, L1 English, AU, Secondary, Crane Riggs) Jackson (23, Australia, male, L1 English,<br>AU, Secondary, Form Worker) Paul (18, Australia, male, L1 English, AU, Secondary, Form<br>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   |
| <br> Number of people  | 5   |
| <br> Description<br>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)                      |
| <br> <br>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