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Working with legacy materials in language documentation and revitalisation: challenges and opportunities

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Overview

- Goals of language documentation, description, revitalization
- What are legacy materials?
- Challenges
- Opportunities
- Two case studies:
 - Guwamu, Southern Queensland S.A. Wurm's fieldnotes
 - Diyari, South Australia J.G. Reuther's dictionary
- Discussion and conclusions

Language description

- Study of language as a system separated from its actual use by speakers and the social-political-cultural-economic conditions of use
- Requires abstraction and search for general principles (phonology, morphology, syntax, semantics, pragmatics)
- Requires idealisation and "cleaning up" recordings of actual use
- Data collection often involves elicitation through surveys or interviews or experiments
- Studying a language the researcher does not speak is often done via translation or asking for speaker judgements
- The records of interview or survey are **not** of interest in themselves, but just a way to accumulate "the data" for analysis

Language description

1. Goals of description:

- to present language structures for others to understand;
- to identify common features and differences across languages (typology);
- to understand how the human mind works (psychology, neurophysiology);
- to understand how humans interact and express personal, social and cultural relationships
- Analysis is often highly structured and formal and written in an abstract metalanguage
- 3. the audience for description is typically other researchers, and distributed in books or articles (grammars, dictionaries, maps, graphs, narratives, text collections)

Language documentation

"concerned with the methods, tools, and theoretical underpinnings for compiling a representative and lasting multipurpose record of a natural language or one of its varieties" (Himmelmann 1998)

Features:

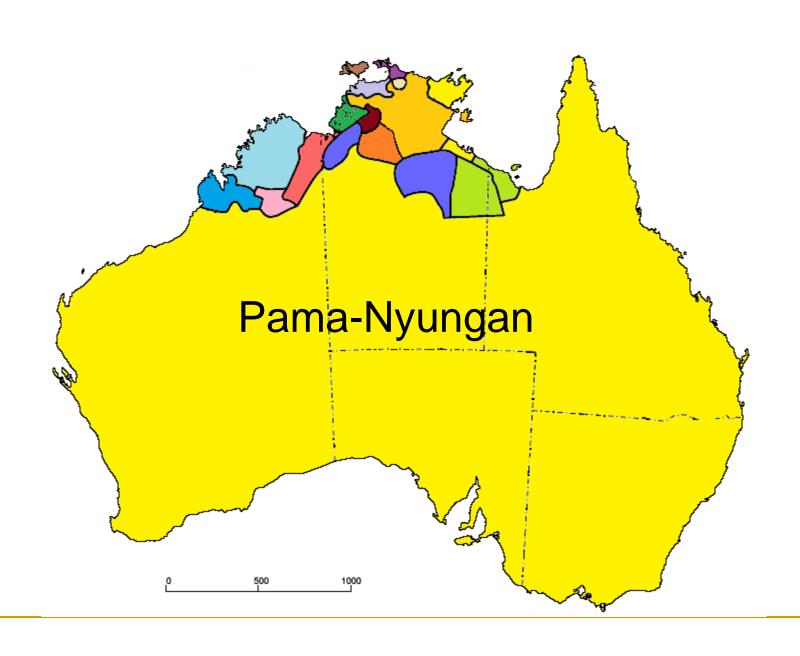
- Focus on primary data
- Accountability
- Long-term storage and preservation of primary data (archiving)
- Interdisciplinary teams
- Cooperation with and direct involvement of the speech community
- Outcome is annotated and translated corpus of archived representative materials on a language, cf. TLA/Dobes, ELAR

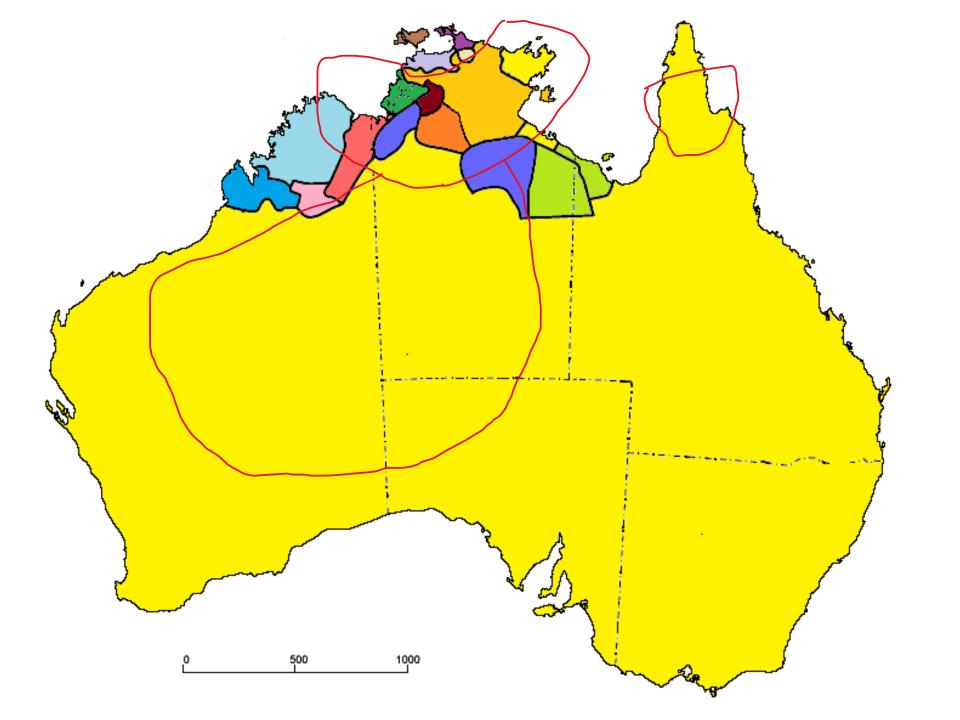
Language revitalisation

- efforts to increase language vitality by taking action to:
 - increase the domains of use of a language and/or
 - increase the number of speakers (often in the context of reversing language shift) both adults and children
- older than language documentation (serious work began in 1970s and 1980s among Maori, Native American groups and others)
- speech/language community members are often more interested in revitalisation than documentation
- often assumed revitalisation = formal language learning (school lessons, immersion)
- many communities are now using corpora to support language learning

Legacy materials (secondary corpora)

- It is rarely the case that first-hand research is carried out on languages or communities that have never been documented before, so typically there already exists material in some form, in missionary or traveller reports, government records, or from previous linguistic or anthropological researchers. With careful use, these legacy materials can provide valuable information to contemporary researchers and communities, and assist language recovery or revitalisation
- In some cases there are **no** contemporary fluent speakers and legacy materials are the richest or only sources for description and revitalisation
- Sometimes, field research in communities is not possible due to danger from violence, e.g. civil war or gangs, or from disease, including pandemics like Ebola and Covid-19. Legacy materials can be important in such cases.





Corpora epistemology issues

- biography of creator(s): prior language knowledge and/or study and/or exposure, their teachers/mentors/correspondents, how/when they learnt the language, how long they worked on the language and at what point in their careers, how the work was funded and with what goals, whether there were previous studies of the language or the community that they could have had access to, who was the consultant, what prior experience, who did the value-adding (transcription, translation)
- aspects of historical period: kind and impact of contact between communities, including colonialists, and influential descriptive categories and formats known to author(s), e.g. traditional grammar based on Latin or Greek models, structural linguistics, IPA

Form, content, and interpretation issues

- Audio may be poor quality, noisy, difficult to hear (e.g. multiparty conversations)
- Video may be poorly recorded or unwatchable, poor audio, partially record people out of frame
- Hand-written or typed text can be difficult to read or interpret, with crossing out, abbreviations, obscurities (requires philological analysis)
- In digital text files characters may be mismapped or missing due to font problems, tabbed text may not align, structured text may be uninterpretable if the structure definition is missing
- Retranscriptions should link back to documents or files on which they are based (so we can retrace the steps of analysis and valueadding)

Retranscription example



THE ABORIGINAL LANGUAGE OF SYDNEY

Views

- Switch to edited view
- View high resolution image

Book B, Page 8



Contents ...

Next >

Manuscripts Book A ✓ Manuscripts Book B ✓ Manuscripts Book C ✓

Ghoólara¹. Ghoólara murry²

Cross, or illnatured Very cross2

To cough

Gittee gittee (W)

The armpit (or rather I think) to tickle

A knot or to tie

Gnárra (W.)

Gárree (W)

A stone sinker to a line

Gnámmul (W.) Gödgang

A Pidgeon

Gniána

To breathe

Göre göré Guáugo

More more

Gómúl

Bye & bye, or stop

Gánat

A degree of relationship Bald (like Pünda's head)

which has been burnt

Ginī. To crack between the nails, as a flea &c.

other Supri

I have (or did) crack

Gülbanabaou

I will hold it up

Gonanulye desiring to wear one of Patyegaran's pettycoats: I told her it was too long for her; on which she said Gülbaŋabaou which Patye

explained as above. -

Gwara buráwa

The wind is fallen.

Ghodara . Thodara muny brok or Mnatured Very oroke To cough garree (M) - -The compit (or outher I think) to tickle Gitter gitter (M) A Knot or to tie Gnarra (M) A stone sinker to a line - A Pidgeon To breathe more more Baye Obye, or stop It degree of relation whip Gomal .. Bald (like Pandashead) which has been bugnt gine. To crack between the nails, as a flea fe. . . . Thave (or ded) orack Quille bald it wh



THE ABORIGINAL LANGUAGE OF SYDNEY

Views

- Switch to unedited view
- View high resolution imag

Book B, Page 8

Prev

Contents .

Next ▶

Manuscripts Book A ~

Manuscripts Book B → Manuscripts Book C →

Ghoólara[†]. Ghoólara murry²

Cross, or illnatured1. Very cross2 To cough

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A Pidgeon

Gniána Gôre gôré

To breathe More more

Guaugo Gómul

Bye & bye, or stop

Gánat

A degree of relationship Bald (like Pünda's head)

which has been burnt.

Ginī, rather Ginyī To crack between the nails, as a flea etc.

Ginidyaou

I have (or did) crack between the

nails

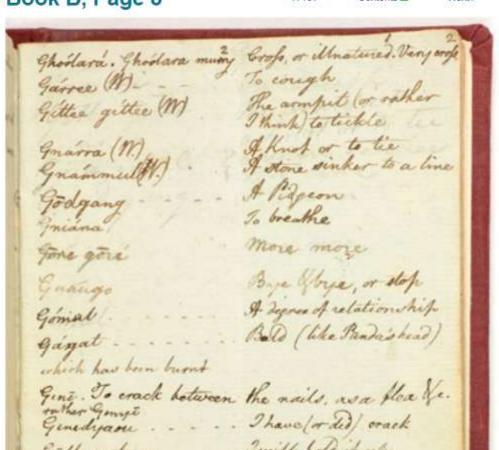
Gülbaŋabaou

I will hold it up

Gonanulye desiring to wear one of Patyegaran's pettycoats: I told her it was too long for her, on which she said Gülbarjabaou which Patye explained as above. -

Gwara buráwa

The wind is fallen



Models for representation of structured text

 Relational model – identify entities and relationships, typically encoded via database software, e.g. form, gloss in one-to-many relationship

ID	Form	Gloss
001	marda	stone
002	marda	money

Markup model – hierarchical representation that uses tags (XML) and scoping to encode entities and dependency relationships, e.g. <entry><form>marda</form><gloss seq="1">stone</gloss><gloss seq="2">money</gloss></entry>

Form, content, and interpretation issues

- implicitly structured materials, e.g. use typography or page layout to distinguish analytical categories or kinds of information, can be made more useful by encoding the structure separately from the form, e.g. by XML markup + stylesheet, or database model + display process
- structure is not always computable from typography and may need to be manually added (cf. quotes from Nathan in Austin 2017): over-use of quotation marks, for multiple purposes and often redundantly, unclear scoping, spelling errors
- cryptic or incorrect glossing, because author(s) could not understand language consultant's accent or pronunciation, or because the semantics of the source language terms were misunderstood (the "gavagai problem")
- changing interpretations over time, and the author(s) hearing what they think they heard rather than what is in the recording or was dictated by speakers due to analytical decisions

Table 1 Semantic problems in text materials, from Crowley and Austin (2005).

	Wordlist meaning	Correct meaning	
1.	Pronunciation problems		
	heart	hot	
	wet	sweat	
	moths	boss	
	dung, shit	tongue	
Meaning problems			
a. generi grass boy	generic versus specific		
	grass	vegetation	
	boy	uninitiated youth	
	beard	hair	
	day	now	
thumb girl	thumb	your hand	
	girl	female	
b.	related word		
2501	thighs	buttocks	
	cloud	sky	
	woman	wife	
	hair	head	
	frown	blind	
	spider	to bite	
	dig	drink	

Form, content, and interpretation issues

- Inappropriate content (taboo, sacred) for various audiences
- Dated content using expressions that are no longer acceptable or now inappropriate, e.g. personal remarks about the ancestors of living persons
- Over-distinguishing or under-distinguishing crucial contrasts, in phonology (voicing, aspiration, vowel quality or quantity, tone), morphology (ergativity), or syntax (vocative case, applicative, switch-reference)
- Lack of sociolinguistic context: who says what to whom when and where?
- Relationship between corpus forms and contemporary usage/beliefs –
 issues about what is "right", especially for shifting languages
 undergoing change

Stakeholder issues

- projects typically have many stakeholders who may have different kinds of interests in the materials collected and the analyses created
- Issues of control, consultation, and decision-making are important when deciding what kind of documentary material to include in any corpus and how it can be used
- For legacy materials possible mismatches between past situations and the present
 - current membership of a contemporary 'community' may not coincide with past membership
 - people who provided legacy materials may not even now be viewed as rightful members of a given group and therefore their information may be deprecated

Stakeholder issues

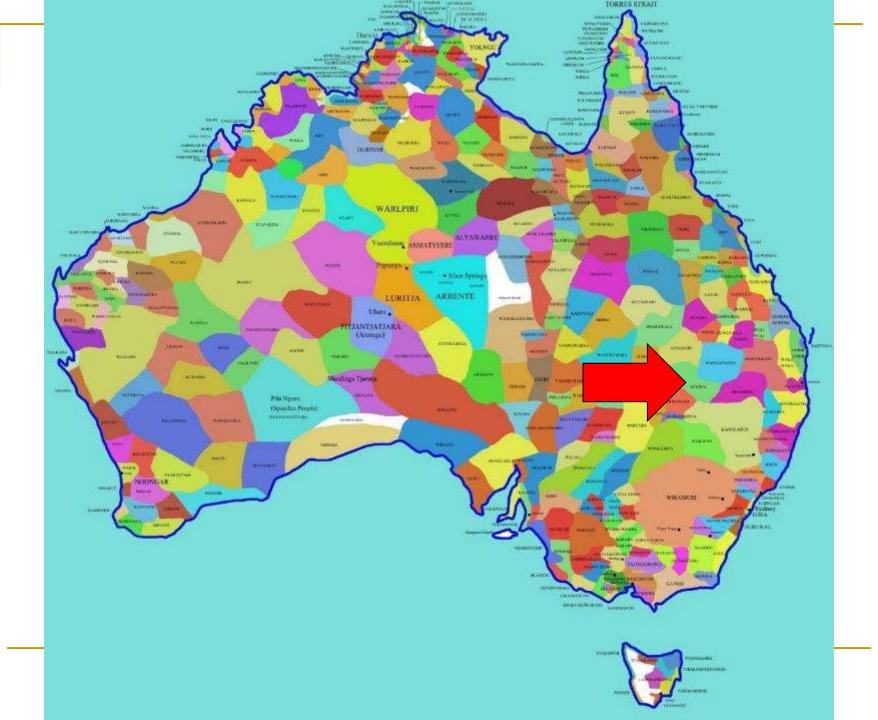
- Unclear agreements, if any, between original collector and the community or particular individuals at the time (and whether these agreements were documented) as well as the relationship between any such agreements and arrangements that are currently being negotiated between contemporary researchers and other stakeholders, e.g. Austin told not to distribute copies of Wurm's materials without permission of current Aboriginal group who self-identify as descendants
- Best to clarify if possible before creating and using the corpus

Rights issues

- who holds what rights? Are the rights documented? How do we establish rights retroactively? What if the researcher is not sure about speaker rights?
- how do we determine rights when there are multiple contributors and data comes from multiple media?
- who has inherited rights between the time of the original recording and now? (e.g. descendants of the original speakers, descendants of the original researcher)
- what happens to 'orphan works' where the original stakeholders can no longer be identified? (e.g. materials passed from a researcher to a later researcher)
- when analysing corpus data it is important to clearly document the various contributions to the work, including those of the original author(s), research assistants, the linguist-editor, other researchers, and current community members.
- access rights to secondary corpora need to be decided and clearly documented

Legacy materials case study 1

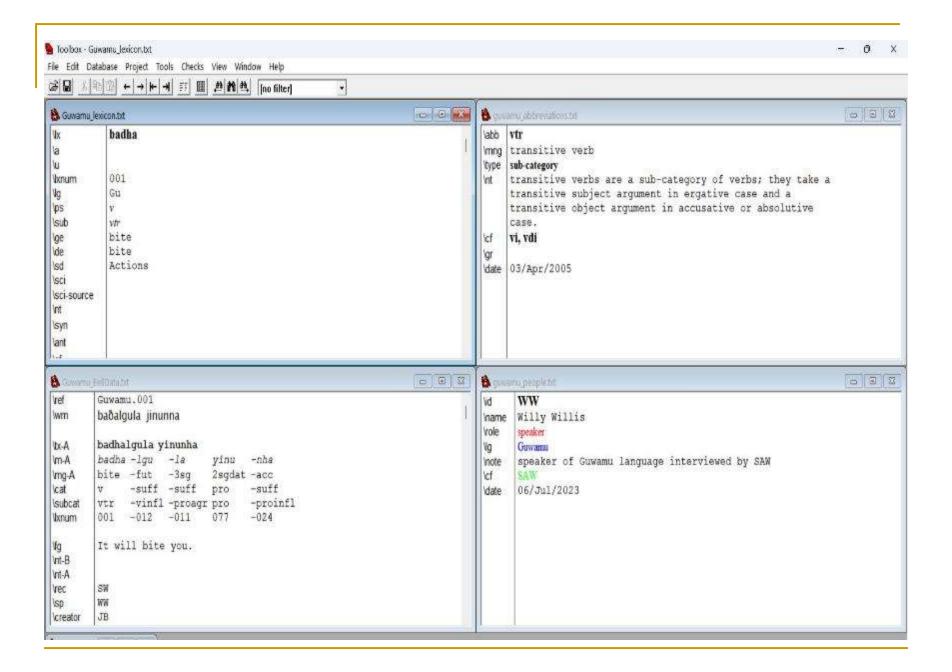
- Survey fieldwork by S.A. Wurm 1955-57, multiple languages from eastern Australia, materials collected but not analysed
- For Guwamu (Kooma), southern Queensland we have 13 minute tape recording plus 60 pages of fieldnotes
- Phonetic transcription of elicited words and sentences
- Glosses in Hungarian shorthand, verbally translated onto tape by Wurm 1978
- No contemporary speakers

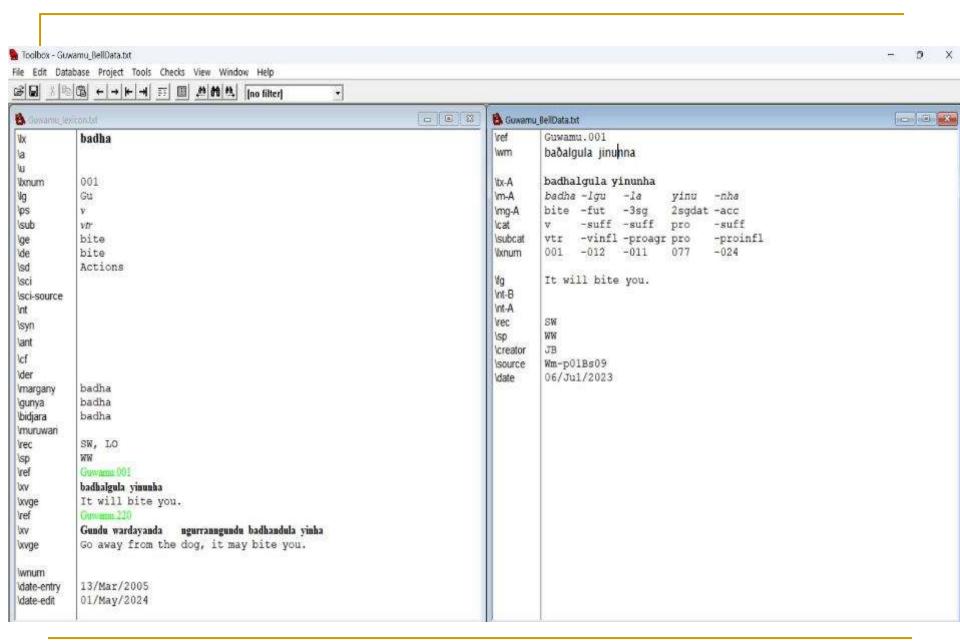


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Guwamu case study

- Retype original notes, add consistent practical orthography, add metadata on sources (speaker, recorder, fieldnotes location), abbreviation definitions, date of last edit
- create lexicon: headword, gloss, definition, scientific name, scientific name source, picture, semantic relations (synonym, antonym, cf), notes, cognates, example sentence link (text, free translation)
- create sentence analysis: phonemicization, morpheme glossing, part of speech, free translation in English, notes, link to lexicon (lexnum), link to abbreviations





Outcomes to date

- Guwamu-English reference dictionary
- Guwamu-English learner's dictionary
- Guwamu children's story by Cheryl Levy and Christopher Bassi

banggard

banggard n. back. Category: Body part. Etym: Gunya, Margany.

banggu n hard dirt, stone.

Category: Nature. Dhambal
banggunggu gudjayanda gardarru
gundu Hit the snake with a stone before it
gets away. Marda waayanda
ngadjunha banggu banyaarri
yilunha dhabalguli Give me a hand, we
two will roll this big stone.

banggun n. head. Category: Body part. Enm: Gunya.

banyaarri n. big. Category: Qualities. Ant: gayugaanba. Etym: Gunya.

banydja vtr. to sing. Category: Language.
Note: southern Guwamu dialect
Syn: wumba. See: mudhun. Etym:
Gunya, Margany. Muginydju mudhun
banydjalgula The woman will sing.

banydjurd n. belly, stomach. Category: Body part. Etym: Bidjara, Gunya, Margany.

bara vtr. to hit with hand. Category: Actions.

bardal adv. tomorrow. Category: Time.

bardi adv. maybe. Category: Particle. Etym: Margany.

bardu n. river. Category: Nature. Etym: Gunya, Margany.

-bari nder having nominal derivational affix allomorph. Category: Grammar Note: used after consonant-final stems Sin: -wari.

barra vtr. to scratch. Category: Actions. Syn: baa. Barrayanda nganha banggarda Scratch me on the back!

barra-la vi. to scratch oneself. Bawurra barralanbangala The red kangaroo is scratching itself.

barran.girri n. vulgar, coarse. Category: Qualities.

barrangirri quant. one. Category: Quantities. See: bulardi; gagurbarri. barrarru adv. quietly. Category. Qualities. Ant: mirra.

barrbirda n. echidna. Category: Animals. Tachyglossus aculeatus.



barrbu vir. to spear. Category: Actions.
barri vi. to cry, weep. Category: Language.
Etym: Bidjara.

barriny n burnt Category: Qualities: barrugirri n name of Southern dialect, spoken by Willy Willis. Category: Language.

bawul n. chicken, fowl. Category: Birds. Note: loan from English

bawurra n male red kangaroo.

Category: Animals. Osphranter ridiis.

Note: used as a generic term for kangaroos.

See: gula; gumbarr; dhugandu.



bayuli vi, to crawl. Category: Motion. Ngunan dhambal bayulinydjangala A snake is crawling along there.

-bi suff. plural? Category: Grammar.

bidhal n. bark of tree. Category: Trees. Etym: Bidjara.

bidhu n. other, other one.

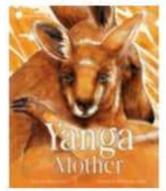
Category: Quantities, gandu gaba yibanydjangala yilunggu bidhunggu bundhalala nhunga gardarru gamu ganydjagirri The child really drowned. That other one (child) picked it up, before the water would have choked him.

bigany n. fingemail. Category: Body part. Etym: Muruwari.

bii adv. can. Category: Particle.







ISBN 0780 7022 8831 f ANZ release July 2024 RRP AUSZA 99

Category Fiction hank Format Hardrick i 215 x 25 ham Trail colour

Extent 32cm

Rights held world inc. film/TV

Cheryl Leavy and Christopher Bassi Yanga Mother

Yanga Mother is a timely and poetic celebration of First Nations languages. This powerful bilingual story honours connection to Country and the unbreakable bonds of never-ending motherly love.

Wandaguli Yanga. There is always Mother.

From award-winning writer Cheryl Leavy comes this beautiful picture book in Kooma and English about a grey kangaroo and her joey, and the unbreakable bonds of family.

With artwork from renowned Meriam and Yupungathi artist Christopher Bassi, this gentle yet powerful story honours the Stolen Generations, First Nations matriarchs, and never-ending motherly love.

"Yanga Mothur is a heautiful, heart-sourning story that celebrates the power of Language to comfort young readers and teach them the importance of Generary and how it nortanes in always."

- Yasmin Smith, Editor



Cheryl Leavy is an award winning wifer and pidel fines the Kooma and Ngust Nations in western and central Dusernshink. She is passionate about language metalluation and working in two cash language. In 2022, Cheryl won the Dodgerop Noonuccal Postry Prize and has appeared at Bristians Wifers Festival, Byran Winters Festival, with the Queenstack's Chamber Orchestra, and more. She has served on several boards including the Queenstand Art Gallery, Canberta Museum and Gallery, ACT Catheral Council, the Queenstand Music Festival, and

currently the Brisbane Writers Festival and the Institute of Modern Art.

Christopher Bassi is an artist of Merium, Yupungathi and British descent. Working with archetypial models of expresentialized parating, his work engages with the medium as anciological and historical test and as a treum to address issues surrounding cultural identity, alternative geneslogies, and colonial legacies in Azetraha and the South Pacific. Chris's recent work will be included in the Masseum of Contemporary Art's exhibition, Primovera 2023. Young Apartanger Artists.



Yılungga yabangga Everywhere

Wandhandja-wandhandja Everywhen

Page Proofs | Final pages from Strips Mathecing Charyl Lawy and Christophur Busin



Yanga dhurdu

Mother is sun

Case Study 2

- Bilingual dictionary of the Diari/Dieri/Diyari language created by missionary Rev. J.G. Reuther
- Head of Killalpaninna Lutheran Mission 1888-1906
- 1897 co-authored translation of Bible New Testament (first in Australia)
- Compiled 14 volume manuscript of Diyari language and culture, volumes I to IV are a Diyari-German dictionary
- Purchased by South Australian Museum 1917
- Rev. P. Scherer translates to English 1974

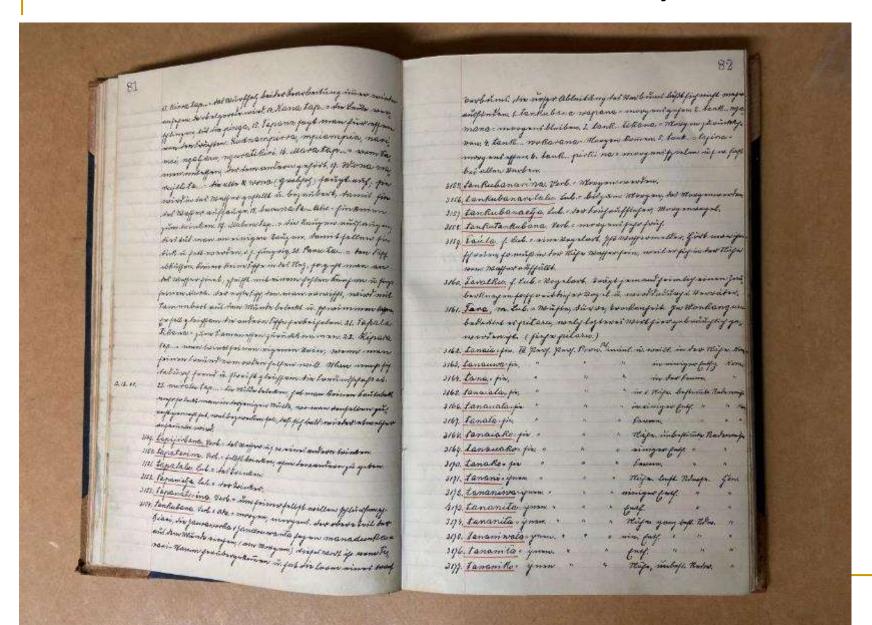
Diyari language and Dieri people



J.G. and Pauline Reuther



Reuther Diari-German dictionary



Scherer Diari-English translation

1885

- IV,80 9) <u>kumari tapana</u> = 'to drink blood; to suck at a wound'
 - When he is first being made a man, the <u>wiljaru</u> opens his mouth widely and drinks the blood [offered to him],
 - 10) <u>kumari tapana</u> = 'to drink blood', i.e. to drink the blood that has been washed off a spear, wherewith a man has been killed. The young men <u>have to</u> do this, in order to become fearless,
 - 11) <u>danju tapana</u> = 'to drink <u>danju</u> 'a variety of fruit'... In this instance one does not [use the term] 'eat',
 - 12) paljangani tapana = 'to chew1 a variety of [tree] gum'
- IV,81 13) <u>kirra tapana</u> = 'to inspect a boomerang time and again' (during the making, to see if it is straight).
 - 14) kana tapana = 'to devour the people.' The kutji does this.
 - 15) <u>tapana is used</u> for 'eating' of the following fruits: <u>kudnampirra</u>, <u>mpiampia</u>. <u>narimai</u>. <u>ngaliaru</u> [and] <u>nguratikiri</u>.
 - 16) mara tapana = 'to join in the eating of seed' which belongs to someone else.
 - 17) <u>wona marujeli tapana</u> = 'for an old <u>wona</u> 'digging stick' to absorb' the water. This <u>is placed</u> in the water and enchanted, so that it may absorb the water,
- Reuther: "schnullen." P.A.S.

Diari-English dictionary: some statistics

- 2,180 page typescript (published as microfiche)
- Digitisation and XML markup (Austin 2023): 4,262 entries, 15,955 sub-entries, 27,472 Diyari expressions, 13,133 (classified) notes, 3,879 examples (Diyari, literal translation, free translation), 1,766 translator footnotes, 1,273 German expressions
- Main dictionary XML file 162,870 lines (110,165 tags) 6.05 Mbytes
- Supplement XML files: comparative lexicon, comparative sentences, placenames, ancestral beings, missing entries

XML sample

```
4945
     </entry>
     <entry lbl="66" num="66" suf="">
4946 ▽
        <lemma>
4947 ▽
           <di>bununu pirna</di>
4948
           <pos val=""/>
4949
        </lemma>
4950
        <note type="editor" subtype="morphology"><ortho>pununu pirna</ortho></note>
4951
4952
        <qloss>large itch</ploss>
        <note type="idiom">This is used in a figurative sense of a man who rejects his wife, in
4953 ▽
           order to look around for another [woman], and after that for [still] another. The idea
4954
           is thereby expressed: 'He is a man driven by sensual appetite for one girl or woman
4955
           after another'. Cf. <di>baka pirna</di>.</note>
4956
        <note type="mythology">the term <di>bununu parana</di> relates to the <di>Mura</di><mura
4957 ▽
              value="female">Warilani</mura>
4958
           <fn author="Scherer" num="fn1"><note>In all probability this name should read <mura value="female"</pre>
4959
                 >Wariliwulani</mura>.</note></fn> an old woman who once had many sores and rashes
4960
4961
               (<di>tapa</di>). While these were [in the process of] healing,
           they [still] caused her considerable itching. So she used her hands to soothe this
4962
           irritation of the skin. That is how the word is said to have originated.</note>
4963
```

Strengths

- Huge number of entries, sub-entries, and examples gives rich information about possible semantics of Diyari lexicon, especially collocations and contexts
- 610 idioms represented, many not present in modern sources
- Rich encyclopedic information on culture and society (e.g. 915 ethnographic notes with 18 sub-types: 39 artefacts, 52 death, 30 kinship, 22 ceremony)
- Basic information on mythology for 461 entries (cf. other Reuther volumes)
- Comparative wordlist (157 entries), comparative sentences
 (10)

Editorial interventions

- Typos corrected in Diyari, English, German
- Where forms are known from modern sources they are added in the current orthography (for 2,486 entries)
- Translator's English language errors corrected
- Removed 'a' and 'the' in glosses, as per lexicographic practice
- Scopal ambiguities resolved (e.g. multiple modifiers of head noun), e.g. 'clear, unobscured view' → 'clear view, unobscured view'

Editing

- Contextual information (e.g. selection) moved from "gloss" to "context note", e.g. 'to duck from the boomerangs, (when they come flying through the air)' → <gloss>to duck from boomerangs</gloss><note type="context">when they come flying through the air.</note>
- All/any of the above, e.g. 'to eat, chew (e.g. tobacco) for someone else' → <gloss>to eat for someone else, to chew for someone else</gloss><note type="context">e.g. tobacco.</note>; e.g. 'to look well after (e.g. widows, children)' → <gloss>to look after well</gloss> <note type="context">e.g. widows, children.</note>

Editing

- glosses of idioms are clearly divided into literal gloss and idiomatic meaning, e.g. '[lit: to insult the water], i.e. not to take any fish out of forbidden waters' → 'to insult water' Idiom: not to take fish out of forbidden waters;
- Footnotes appear at their relevant location in the text (not at bottom of page) and are displayed as popups triggered by mouse over;
- Other editorial notes, e.g. essential clarifications, corrections of translator's comments in footnotes.
 Additions by the editor appear preceded by an asterisk

Editing – sensitive expressions

- Reuther's dictionary contains expressions and opinions that were common among missionaries and other non-Indigenous people in the 19th and early 20th century which Aboriginal people and others may now find offensive.
- Examples are "witchdoctor", "heathen", "pagan", and "native". There are 386 instances of such potentially offensive expressions.
- In the XML file these are tagged and a substitute provided e.g.1 – like the cap on a <substitute val="">native</substitute> man's head
- e.g.2 in conformity to <substitute val="the Law">pagan [or tribal] law</substitute>

User interfaces

1. Specialist edition for researchers and advanced learners -- presents all material in Scherer translation with editorial amendments. It is formatted by a CSS that converts XML tags to display as format (colours, bold, italics, indentation, alignment, pop ups) in a browser

Limited search capabilities within the browser, minimal use of hypertext

Interface1

```
10
bakina vi
  *Spelling: paki-rna
  to break open; to open up of its own natural force or instinct; to burst open; to crack; to burst asunder
  Context: Used in Diari of clouds, when they send forth rain in torrents, or when they disperse. Examples in Diari follow.
  [1]
         tapa bakina warai
         the sore has opened up; the wound has burst
  (page 11) [Vol. I, p. 9]
  [2]
         nguramarali bakila wapaia
        the rosy-fingered morning has dawned
  [3]
         nauja marda bakina warai
         the stone has cracked
         Context: from the heat.
  [4]
         nauja turu bakina warai
         the fire has burst into flame
         Context: from wood laid on the coals
```

Supplements (e.g. missing entries)

- Presented as per the Specialist edition but with lots of additional materials added by the editor, including references to additional sources, cognates in related languages, scientific identifications, hypertext links to Wikipedia entries, images, hypertext links back to the main dictionary
- Sorted in regular alphabetical order looks more like a "proper" dictionary
- Balance between "faithfulness" and adding value

Supplement

35

bakubaku n

*Spelling: unknown type of animal

*Editorial Note: this is probably pakupaku 'crested bellbird'. See also Hercus (2014: 215) for the cognate term in Arabana-Wangkangurru.

*Scientific name: Oreoica gutturalis

*Scientific reference: https://en.wikipedia.org/wiki/Crested_bellbird

Wikipedia link (opens new tab)



*Editorial Note: this item only appears as a sub-entry of thidna foot

*See: No. 3270-76

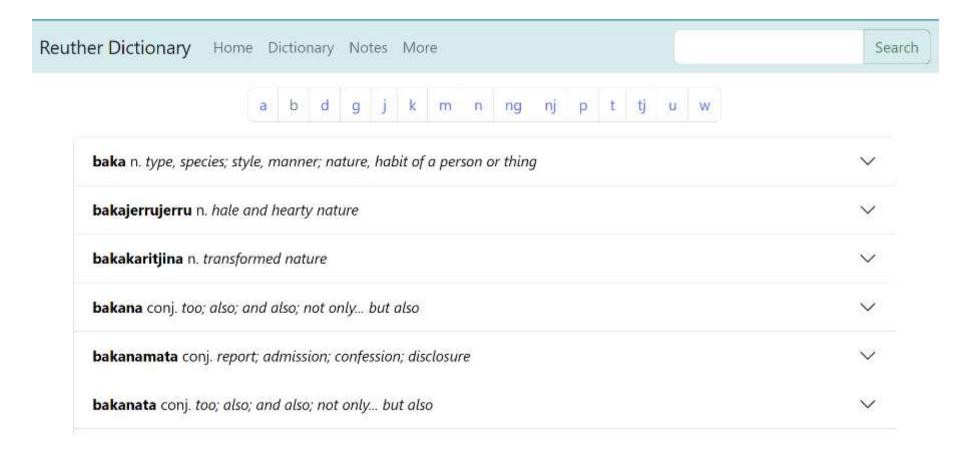
User interfaces

2. **User-friendly edition** for learners, community members, interested others -- presents all material in Scherer translation with editorial amendments, but without footnotes, page numbers, and with substitutions of sensitive vocabulary.

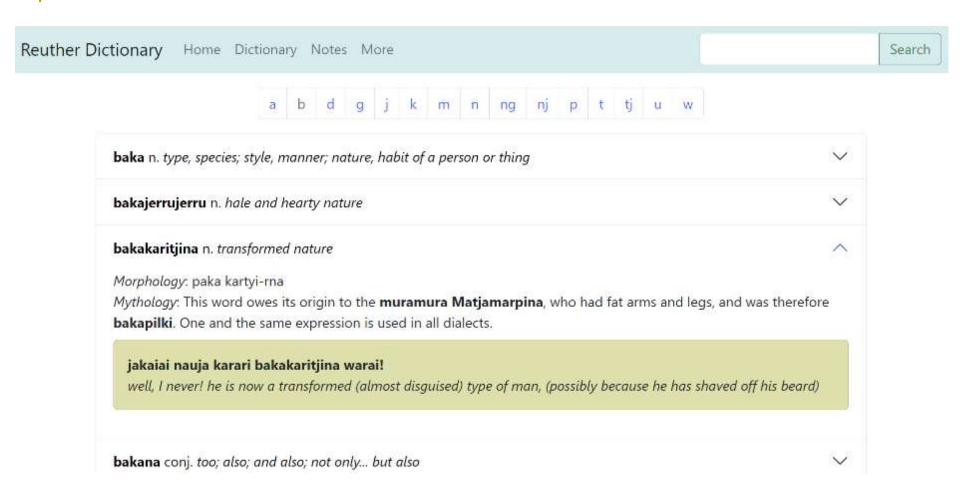
Three interaction methods:

by letter groups that show Diyari vocabulary and English gloss only.
 Users can click to open up full entry display for items that interest them

Letter group display for "b"



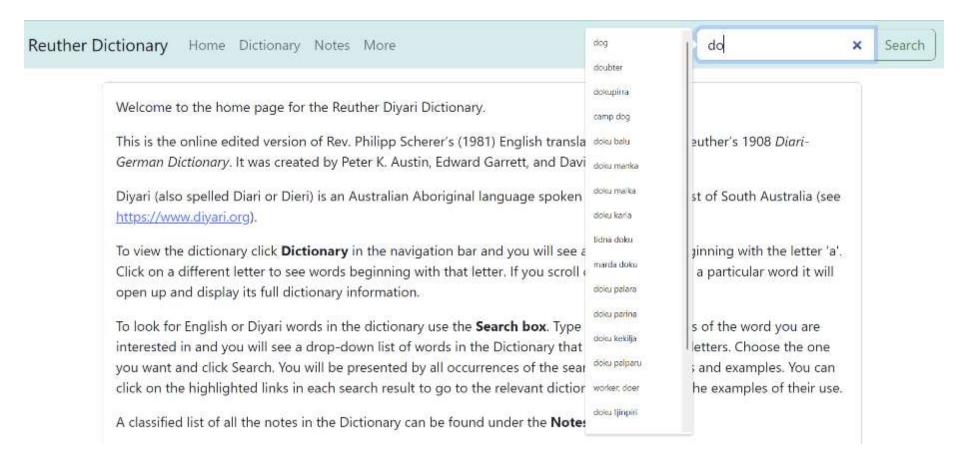
Expand selected entry



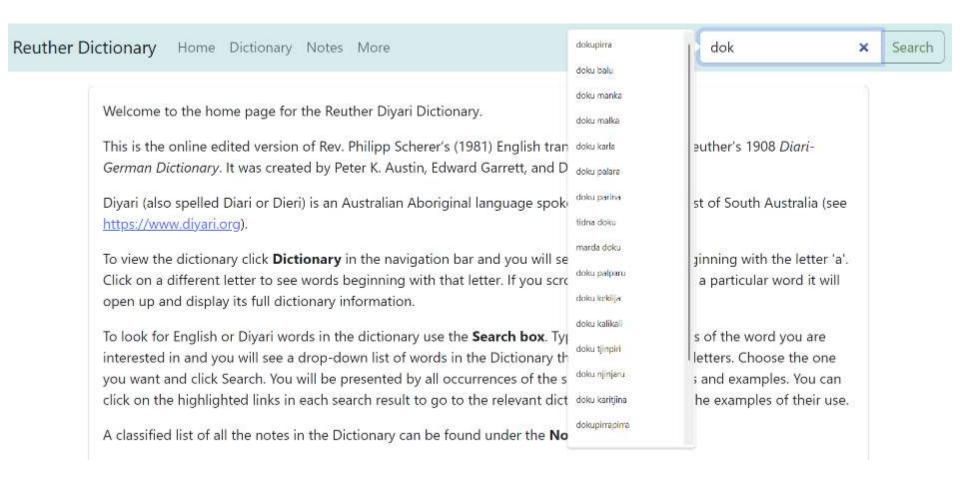
For users

- other interaction methods:
 - by search over Diyari or English expressions. The search box presents pop-up lists of available terms in forms or glosses and returns all entries with the search term – search begins with first typed letter and narrows as user types
 - by categorized Notes

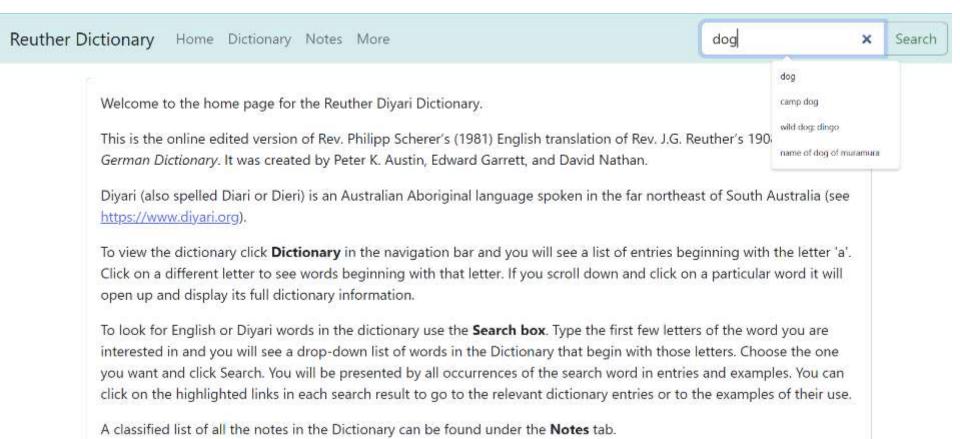
Search "do"



Search "dok"



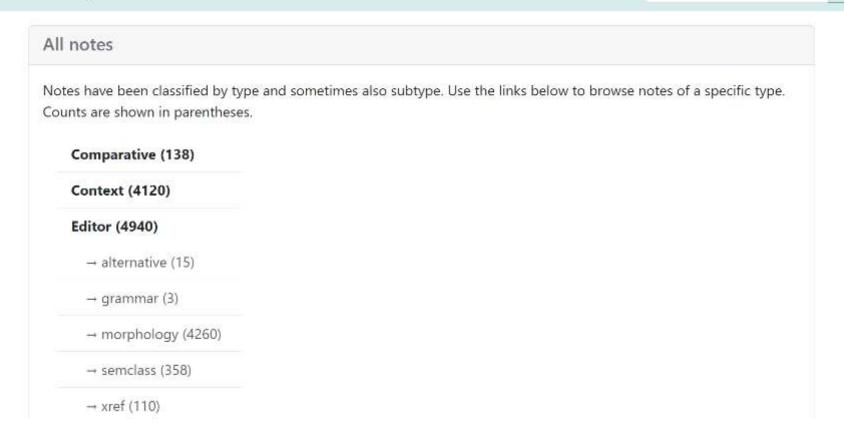
Search "dog"



Notes list

Reuther Dictionary Home Dictionary Notes More

Search



Challenges of Reuther's dictionary

- Reuther was a rather poor linguist, a weak lexicographer, and obsessed with arcane knowledge (ancestral beings, mythology, placenames) while uninterested in many aspects of the mundane world (the 'lone scholar')
- He received little training in languages, other than Greek and Latin, and for Diyari grammar borrowed heavily from previous missionaries, such as Flierl (Stockigt 2016)
- Reuther's missionary orthography over-differentiates vowels and under-differentiates consonants, resulting in distinct words being spelled the same, or the same sound spelled differently

Phonology

Reuther	Austin	Gloss
ngatata	ngardarda	'maternal grandfather'
ngatata	ngathata	'younger brother'
terti	thati	'middle'
terti	thardi	'thirsty'
tala	darla	'skin'
tala	tharla	'name'
kalu	kalhu	'liver'
kalu	karlu	'testicles'

Phonology

kati	kathi	'clothing'
kadi	karti	'raw, uncooked'
kadi	kardi	'brother-in-law'
ngura	ngura	'camp'
ngura	ngurra	'continuous'
baru	paru	'yellow'
paru	parru	'fish'
waka	waka	'small'
wokara	wakarra	'neck'
woma	wama	'carpet snake'
wapana	waparna	'to walk'

Morphology – derived forms

buljubulju	pulyupulyu	'annoyed, sullen'
buljubuljujeli	pulyupulyu-yali	'angry (transitive)'
buljubuljurina	pulyupulyu-ri-rna	'to become angry'
buljubuju ngankijirbamalina	pulyupulyu-nganka-iyirpa-mali-rna	'to complain against one another'
buljubuljurilkijiribamalina	pulyupulyu-ri-lka-iyirpa-mali-rna	'to annoy each other'
buljubuljurinietja	pulyupulyu-ri-rna-yitya	'surly type'
buljubulju wapana	pulyupulyu wapa-rna	'to walk along sullenly'
buljubulju kurana	pulyupulyu kurra-rna	'to devise dissention'

Lexicographic issues

- Entries are sometimes partially duplicated, e.g.
 - dapana 'to drink; to suck, to suck up; to kiss; to chew; to eat (of grounded seed); to belch or burp; to wet or moisten; to pour, to swallow'
 - tapana 'to drink', but its sub-entries contain glosses 'to slurp, to suck, to absorb (water), chew, lick'
- Sub-entries are often randomly listed in an apparent stream of consciousness (by Reuther or his teachers)
- Some common terms have dozens of sub-entries, with tenuous semantics, e.g.
 - tidna 'foot' has 223 sub-entries, many of which are names for animals that have tracks
 - tandra 'fruit' has 127 sub-entries, most of which are names for unidentified plants

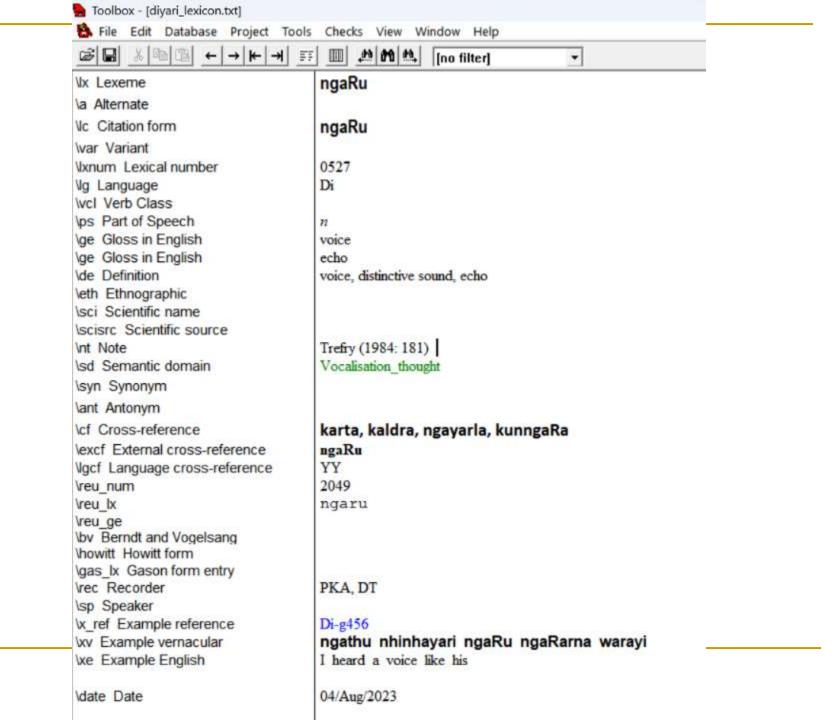
Lexicographic challenges

- some relatively common words are mistranslated, e.g.
 - □ **kaku** 'sister (brother speaking)' → 'older sister'
 - ngatata 'younger brother'

 'younger sibling'
 - □ **kami** 'paternal grandmother' → 'father's mother, father's mother' brother'
- over 300 items do not have a headword entry but appear only as a sub-entry, often under a semantically loosely connected headword, or in examples, e.g. tindritindri 'willy wagtail' appears under tidna 'foot' only (as an animal that has tracks), karku 'red ochre' appears in 33 sub-entries and 10 examples but has no entry itself (c.f. bukatu 'pink ochre')
- Entries Supplement for these many terms refer to flora and fauna, which Reuther apparently had no interest in but for some we can identify from other sources, some contemporary to him, e.g. Gason (1886)
- Significant sense, reference, and cultural information can be scattered across entries in notes or examples

Proposal

- The main Reuther-Scherer dictionary needs a stand-off XML index that also incorporates material from all other legacy and modern sources (something like what we have done for the missing items Supplement)
- It should be properly sorted and structured lexicographically to create a stronger Diyari-English bilingual encyclopaedic dictionary that builds on Reuther's strengths while filling the gaps and correcting his errors (especially in phonology and morphology)
- We are working on this currently using Toolbox and Lexique Pro to generate both printable and web accessible versions



thaparna vtr [R229, 3148] (a) 'to drink' ngapa thaparna 'to drink water' [R229-ex1, R3148-ex1] kumarri thaparna "to drink blood", Ethn. When he is first being made a man, the wilyarru opens his mouth widely and drinks the blood offered to him by his injators. This also used to refer to drinking the blood that has been washed off a spear that a man has been killed with; young men are required to do this, in order to become fearless. Reuther also has the meaning 'to suck a wound' [R3148-ex 9] kipara thaparna 'to drink urinc', Ethn. men drink their own urine in order to end a friendship when planning to kill a friend [R3148-ex22] piarurna thaparna 'to kneel down to drink' [R3148-ex18] thapalha thikarna 'to come back to drink' [R3148-ex21] (b) 'to suck' ngama thaparna 'to suck the breast' [R3148-ex6] paya kapi thaparna 'to suck out bird's eggs' [R3148-ex7] thuring thaparna 'to suck marrow out of a bone' [R3148-ex8] munty a thaparna 'to suck a wound', Ethn. the hunki sucks puss and matter from a wound. [R3148-ex3] mularru thaparna 'to suck on caterpillars', Ethn. this is done so they become big and fat [R3148-ex19] (c) 'to eat, slurp up, or chew on soft or semi-liquid food or fruit' passa thaparna 'to slurp up ground seed' [R229-ex6, R3148-ex2] kilthi thaparna 'to eat fat or stew' [R229-ex4, R3124-ex 5] danyu thaparna 'to east danyu fruit'. Note, for soft fruit thaparna 'drink' rather than thayirma 'eat' is used. Other fruits are kudnampira, mpiampia, nharimayi, ngaliyaru, and ngurathikiri [R3124-ex11] palyangari thaparna 'to chew on the gum of the palyangari tree' [R229-ex9, R3148-ex 12] karna thaparna 'to cat people', Ethn. the members of a pinya revenge expedition eat the raw liver of their victim. [R229-ex2, R3148-ex14] (d) 'to lick' miralu thaparna 'to lick a coolamon', Ethn. when a man has no tobacco, he licks the dish that he last prepared tobacco in to ensure that some may soon become available. [R-ex 23] (e) 'to kiss, touch with the mouth' marna thaparna 'to kiss on the mouth' parru thaparna 'to kiss a fish', Ethn. If no fish land in the net, a man goes down into the water, whistles into a hollow bone, and sings his mura song. The first fish to be caught is

kira thaparna 'to kiss a boomerang', Ethn. this is done before throwing to ensure that the boomerang hits its target. It is also done repeatedly when a boomerang is being made to see if it is straight. [R229-ex25, R3148-ex13]

again. This is expected to entice other fish to enter the net. [R3148-ex20]

then kissed while the man has bread (made of seed) in his mouth, and allowed to swim

Conclusions

- creating and analysing corpora can be very rewarding and enable various exciting kinds of linguistic and cultural research to be done
- however, working with corpora, especially legacy materials, involves dealing with often complex issues about the form, content, context, and use of materials and analyses arising from them
- maximising opportunities to use a corpus requires thinking about data entities, data types and relationships, and being explicit about them in the project design and application (e.g. in database design or XML tagging)
- very important role for metadata and meta-documentation
- by creating good meta-documentation now we can reduce legacy data problems for future researchers

Conclusions

- there are many opportunities for researchers to add substantial value to legacy corpus materials, and create secondary corpora, especially if they are able to work with other historical sources and/or contemporary knowledge holders to elucidate them and the context surrounding their creation, analysis and current status
- careful work with legacy corpora can also be very rewarding for researchers and communities, especially for unique documents on languages/varieties or areas of knowledge that are no longer available, and that can serve as important sources for language support and revitalisation
- Thank you for your attention

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