NOBODY'S PERFECT



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INTRODUCTION

SOME VERY GENERAL QUESTIONS ABOUT THE PERFECT

- What is it/How should it be defined?
 - Semantic/pragmatic criteria?
 - Morphosyntactic criteria?
- Universal?
- Prototypical?
- One perfect?
 - experiential perfects
 - resultative perfects
 - both?

PREVIOUS STUDIES OF THE PERFECT

- Formal semantic studies
 - Klein (1992, 1994), Portner (2003, 2011) among others
 - Usually focus on English and its nearest relatives
 - Try to explain the various readings/uses of the perfect in a compositional manner
- Typological studies
 - For example, Dahl (1985), Bybee et al. (1994), Dahl & Velupillai (2011)
 - Include a large sample of languages
 - Based on existing grammars and/or large-scale surveys

THE MIDDLE WAY

'The proposed change is a so-called "middle way" that would allow the comparison of a relatively small, intelligently selected sample of languages, using deeper structural analyses than is currently possible with large-scale sampling methods.'

Polinsky & Kluender (2007)

'We suggest that there is a "Middle Way" which will shed light on the crucial underlying issues. This Middle Way style of research would look at fewer languages than a typical typological study does, but at more languages than a typical generative study does.'

Baker & McCloskey (2007)

OUR PROJECT

A middle way

- Smaller, but genetically and typologically diverse set of languages
- Data based on intensive fieldwork with native-speaker consultants, and/or our own intuitions as native-speaker/linguists
- Use of consistent criteria and methods across the different languages (for example, storyboards)

Goal

 Develop and test (formal) analyses of the perfect in a larger and more diverse set of languages than has typically been done so far.

OUR PROJECT

Indo-European:

English (eng)

Dutch (nld)

German (deu)

Québec French (fr-

QC)

Brazilian

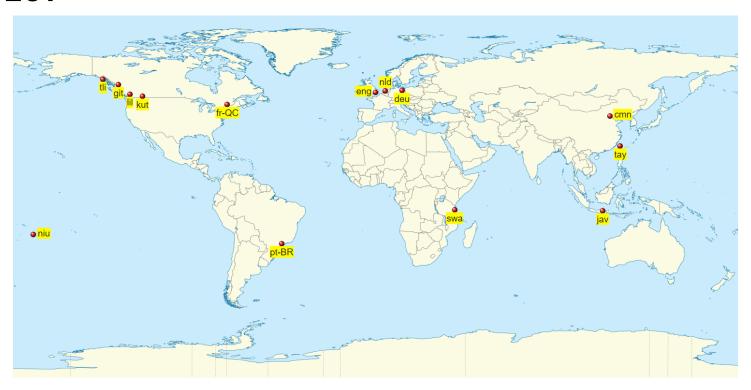
Portuguese (pt-BR)

Austronesian:

Niuean (niu)

Javanese (jav)

Atayal (tay)



OUR PROJECT

Sino-Tibetan: Taiwan Mandarin (cmn)

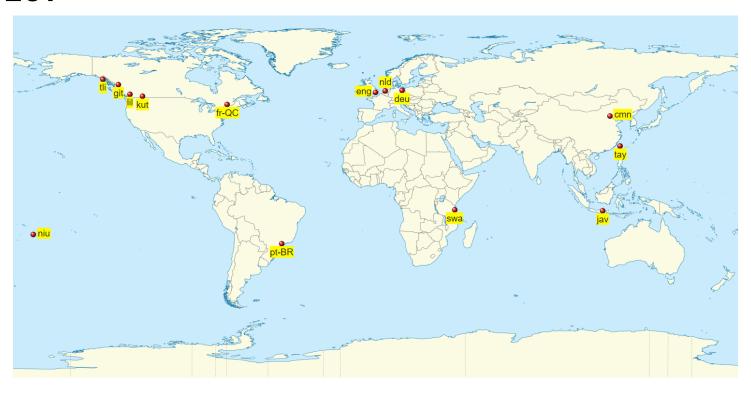
Bantu: Swahili (swa)

Tsimshianic: Gitksan (git)

Ktunaxa (kut)

Na-Dene: Tlingit (tli)

Salish: St'at'imcets (Lillooet) (lil)



OUTLINE

- 1. Properties of the English perfect
- 2. Methodology and overview of results
- 3. A "non-perfect": The general-purpose past perfective
- 4. Three strategies for expressing perfect-type interpretations
- 5. Discussion and open questions

PROPERTIES OF THE ENGLISH PERFECT

PROPERTIES OF THE ENGLISH PERFECT

4 readings/uses (Comrie 1976, McCawley 1971, McCoard 1978, among many others):

Experiential

(1)Pat <u>has climbed Mount Everest</u>. (at least once in a certain timespan)

Result state

(2)Pat has passed out.

Recent past

(3)Tough luck, the train has left.

Continuous
 (Universal perfect, perfect of persistent situation, continuative)

(4)Pat <u>has lived in Vancouver</u> since 2015.

PROPERTIES OF THE ENGLISH PERFECT

4 Limitations

- No "dead" subjects (lifetime effects)
- (5) # David Bowie has lived in London

No cancellation of result state

(6)# I've lost my keys, but then I found them again.

No narrative progression

(7)# This morning, Pat <u>has woken up</u>, and then he <u>has gotten dressed</u>.

No definite time adverbials

(8)# Pat has climbed Mount Everest last year.

METHODOLOGY AND OVERVIEW OF RESULTS

RESTATING THE RESEARCH QUESTION

How do languages express meanings which, in English, are expressed with the present perfect?

• Whatever strategies are used, are they subject to the same restrictions as the English present perfect?

METHODOLOGY

- Fieldwork with native speaker consultants.
 - Storyboard methodology
 - Miss Smith's Bad Day
 - Elicitation
 - Elicit negative data
 - Test other forms in the same contexts



3. One of the children, Tom, is naughty and is already pulling Mary's hair.



4. Miss Smith asks the kids "Who has ever climbed a mountain?"

limitations	е	past	ciple	ciple	sé	ito	ÿа-	-ni	-guo	-in-	tau	mε-	kua	plan	e le	wal	ple	hlaa
EXPERIENTIAL	1	1	1	1	1	1	/	1	1	1	1	1	1	1	х	Х	X	Х
Dead subjects possible	×	1	1	✓	1	1	1	1	1	1	1	Х	X	X	n/a	n/a	n/a	n/a
RESULT STATE (POSSIBLE)	J	1	1	1	1	1	1	✓	Х	X	Х	1	1	1	J	1	1	1
Result state cancellable	Х	1	1	1	√	1	n/a	n/a	n/a	n/a	n/a	Х	X	Х	(√)		1	х
RECENT PAST	1	1	1	1	1	1		1	(X)	(X)	X	1	1	1	s	1	X	1
CONTINUOUS	1	Х	(✓)	(✓)	Х	X	/	×	Х	х	Х	1	X	х	(✓)	Х	/	х
Narrative progression possible	×	1	Х	/	1	1	/	/	Х	×	×	Х	1		×	Х	X	1
Definite time adverbial allowed	×	1	1	1	<i>,</i>	1	/	/	1	1	1	Х	X	1	1	1	Х	Х
																		6

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READINGS

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+

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A "NON-PERFECT": THE GENERAL-PURPOSE PAST PERFECTIVE

GENERAL-PURPOSE PAST PERFECTIVE

Positive results to all the tests

- Québec French passé composé
- Brazilian Portuguese pretérito perfeito (simples) (excludes pretérito perfeito composto ter + participle)
- German (and to a lesser extent Dutch) perfect (have/be + past participle)
- Ktunaxa past marker ma
- Tlingit ÿa-
- English simple past

General-purpose past perfectives

- refer to past events in a wide range of situations
 - including "perfect" contexts
 - may require additional material or support from the context

	English	English	Dutch	German	Q. French	Br. Portuguese	Tlingit	Ktunaxa
READINGS and	Present	Simple	have/be +	+	Passé	Pretérito		
limitations	Perfect	past	participle	participle	composé	perfeito	ÿa-	mani
EXPERIENTIAL	1	1	✓	✓	✓	V	✓	✓
Dead subjects possible	X	1	✓	1	1	√	/	1
RESULT STATE (POSSIBLE)	1	1	1	/	/	1	/	1
Result state cancellable	Х	1	J	1	1	1		
RECENT PAST	1	1	✓	✓	✓	✓	✓	1
CONTINUOUS	1	Х	(✓)	(✔)	Х	×	√	Х
Narrative progression possible	х	J	×	/	1	√	J	1
Definite time adverbial allowed	X	J	J	J	√	V	1	1

GENERAL-PURPOSE PAST PERFECTIVE

Properties these forms share:

- Experiential contexts, but no lifetime effects
- Result state may hold at utterance time, but this is not required
- Recent past possible
- Definite time adverbials allowed
- Narrative progression allowed (with the exception of Dutch)

Properties on which they differ:

Continuous reading (often the simple present is used instead)

Experiential

```
Qui
                déjà
                          monté
                                           montagne?
                                    une
       has<sub>aux</sub>
Who
                already
                         climbed, a
                                           mountain?
'Who has ever climbed a mountain?'
                monté
Moi j'ai
                           une
                                  montagne
     I have<sub>aux</sub>
Me
                climbed, a
                                  mountain?
'Me, I have climbed a mountain.'
```

- Needs support from the co-text or the addition of an adverb
- Déjà in French is not used exclusively for experiential readings

Result state

Context 1: John heard a big noise in the living room, he peeks to see what happened, Marie is on the ground, unconscious, and Paul says:

Context 2: John heard a big noise in the living room, he peeks to see what happened, Marie's slowly getting up from the floor, and Paul says:

Marie a perdu connaissance

Marie has_{aux} lost_v consciousness

'Mary fainted.'

Recent past possible

Context: Albert runs into John on the street and asks him about his wife Marie. John says:

Marie est tombé malade

Marie is_{aux} fallen ill_v

Definite time adverbials

Marie est tombé malade hier

Marie is_{aux} fallen ill_v yeterday

'Marie has fallen ill yesterday.'

^{&#}x27;Marie has fallen ill.'

Narrative progression

Marie est tombé malade Elle est allée chez le médecin

Marie is_{aux} fallen ill_v Marie is_{aux} gone_v to the doctor

'Marie got ill.' 'She went to the doctor.'

Elle a reçu une ordonannce.

Marie has_{aux} received_v a prescription

^{&#}x27;Marie got a prescription.'

INTERIM CONCLUSION

- General past perfectives
 - can be used in lieu of the perfect
 - may even be cognate with the English perfect (e.g., German, Dutch, French).
- The perfect is defined by the restrictions on its use (the crosses in the table)
 - General purpose past perfective is not a perfect
- Methodological remark:
 - Targeting the perfect through its contexts of use does not guarantee a perfect form

THREE STRATEGIES FOR EXPRESSING PERFECT-TYPE INTERPRETATIONS

RESTATING THE RESEARCH QUESTION

How do languages express meanings which, in English, are expressed with the present perfect?

- General past perfectives
- What else?

Whatever strategies are used, are they subject to the same restrictions as the English present perfect?

General past perfective has NO restrictions

THREE STRATEGIES

- •Three types of strategies (bound morphemes, constructions, particles) for expressing perfect-type interpretations:
- •Criteria: semantic/pragmatic

- Type A: Experiential strategies
- Type B: Resultative strategies
- Type C: Hybrid strategies

TYPE A: EXPERIENTIAL STRATEGIES

Includes:

- Atayal -in-,
- Javanese tau
- Mandarin -guo 过/過

	English	Mandarin	Atayal	Javanese
READINGS and	Present			
limitations	perfect	-guo	-in-	tau
EXPERIENTIAL	/	✓	✓	✓
Dead subjects possible	Х	1	✓	✓
RESULT STATE (POSSIBLE)	/	Х	X	×
Result state cancellable	X	n/a	n/a	n/a
RECENT PAST	✓	(X)	(X)	X
CONTINUOUS	✓	Х	Х	×
Narrative progression possible	Х	Х	Х	X
Definite time adverbial allowed	Х	1	1	✓ remote

TYPE A: EXPERIENTIAL STRATEGIES

Definitional properties:

- Experiential reading possible
- Result state reading not possible

Other shared properties (for the 3 languages in our sample):

- Dead subjects possible (no lifetime effects)
- Recent past possible
- Continuous reading not possible
- Definite time adverbials possible
- Narrative progression not possible

Experiential reading

```
q<m><n>alup mit (sraral) hiya'
```

hunt<av><pst> goat before 3s.n

No lifetime effects (dead subjects possible)

Context: Talking about who wrote an Atayal dictionary, the speaker is reminded of Egerod (1923-1995):

m<in>iru' khu' biru' na' tayal qu Egerod qasa ma.

AV<PST>write depot book GEN Atayal ABS Egerod that EVID

'It is said that Egerod wrote an Atayal dictionary.'

^{&#}x27;He has hunted goats before.'

Result state reading not possible

Context: You couldn't find your watch.

m<in>gzyuwaw tuki=maku'

AV<PST>lost watch=1S.GEN

Intended for 'My watch has got lost.'

Definite time adverbials possible

aw'=saku' k<in>t-an shira' rwa!

aw'=1S.ABS see<<u>PST</u>>LV yesterday PRT

'Didn't you see me yesterday?'

Recent past possible (with cessation of result state)

Context: (Right before dinner) Mother asks if you wash the kid's hands because she sees the kid's hands are dirty. You reply:

m<in>pm-an=maku' la.

AV<PST>wash-LV=1S.ERG PRT

'I washed him.' (Why do his hands get dirty again.)

Narrative progression not possible

```
# m-zyup ngasal qu Tali', m<in>nbuw qwaw hiya'

AV-enter house ABS Tali' AV<PST>drink wine 3S.N

'Tali came into the house. He drank wine.'
```

Continuous reading not possible

```
# m<in>qilang krayryax qu Tali'.

AV<PST>lazy every.day ABS Tali'
```

Intended for 'Tali' has always been lazy.'

TYPE A: EXPERIENTIAL STRATEGIES

Formalization

Existential past tense (Chen, Vander Klok, Matthewson and Rullmann 2017) Schematic representation: $\exists e [e < t_0 \& P(e)]$



TYPE B: RESULTATIVE STRATEGIES

Includes:

- Mandarin final particle le 了
- Atayal wal
- Gitksan hlaa
- Brazilian Portuguese ter + participle (aka préterito perfeito composto)

READINGS and limitations	English Present Perfect	Mandarin Final particle <i>l</i> e	Ataya I wal	Gitksan <i>hlaa</i>	pt-BR ter + participle
EXPERIENTIAL	✓	Х	Х	X	X
Dead subjects possible	Х	n/a	n/a	n/a	n/a
RESULT STATE (POSSIBLE)	/	√	1	✓	1
Result state cancellable	Х	(√) w/ adv	??	Х	1
RECENT PAST	/	1	1	1	Х
CONTINUOUS	/	(✓)	Х	Х	1
Narrative progression possible	Х	Х	×	√	х
Definite time adverbial allowed	Х	1	1	×	Х

TYPE B: RESULTATIVE STRATEGIES

Definitional properties:

- Result state reading possible
- Experiential reading not possible

Properties on which the languages differ:

- Cancellability of the result state
- Recent past
- Continuous reading
- Narrative progression
- Definite time adverbial

TYPE B: RESULTATIVE STRATEGIES - MANDARIN

Result state reading possible

```
wǒ nòngdiū nà-bǎ yàoshí le
I lose that-CL key LE
'I lost that key.'
```

Experiential reading not possible

```
# wǒ pá shān le.

I climb mountain LE
```

Intended: 'I have climbed a mountain.'

Translation: 'I already climbed a mountain.'

TYPE C: HYBRID STRATEGIES

Includes:

- English have + past participle
- Niuean kua
- Swahili mε-
- St'at'imcets plan

	English	Swahili	Niuean	St'at'imcets
	have +			
READINGS and limitations	participle	mε-	kua	plan
EXPERIENTIAL	✓	✓	✓	✓
Dead subjects possible	×	×	×	Х
RESULT STATE (POSSIBLE)	1	1	1	✓
Result state cancellable	×	X	X	Х
RECENT PAST	1	✓	/	1
CONTINUOUS	1	✓	×	Х
Narrative progression possible	×	X	1	
Definite time adverbial allowed	X	Х	Х	1

TYPE C: HYBRID STRATEGIES

Definitional properties:

- Experiential reading possible
- Result state reading possible
- But not a general past perfective (i.e., some restrictions apply)

Other shared properties (for the 4 languages in our sample):

- Dead subjects not possible (for the experiential reading)
- Result state not cancellable (for the result state reading)
- Recent past possible

Properties on which the languages differ:

- Definite time adverbial
- Narrative progression
- Continuous reading

Experiential reading possible

```
(Ko e) mena kua mohe nakai a koe he kelekele?
```

KO ABS thing PRF sleep Q ABS 2SG LOC ground

Context: Who has ever climbed a mountain?

Ko au, ko au! Kua toli e au e mouga.

KO 1SG KO 1SG PRF climb ERG 1SSG ABS mountain

'Me, me! I have climbed a mountain.' ('Miss Smith's Bad Day' storyboard)

^{&#}x27;Have you ever in fact slept on the ground?' (Seiter 1980:128)

Result state reading (result state not cancellable):

Context: Telling your friend why you were late. You say 'I lost my keys, but I found them.'

```
#
                                                haaku,
    Kua
           galo
                  (tei)
                                         ki
                                                              ka
                                                                    kua
                                                                                     tei.
                             е
                                   tau
                                                                           moua
    PRF
                  (recent)
                             ABS PL
                                         key
                                                1SG.POSS
                                                              but
                                                                    PRF
                                                                           find
           lose
                                                                                     recent
    'I have lost my keys, but I found them.'
    (Na)
            galo
                          tau
                                ki
                                        haaku,
                                                      ka
                                                            kua
                                                                            tei.
                                                                   moua
    (PST)
                   ABS
                          PL
                                key
                                        1SG.POSS
                                                            PRF
                                                                   find
            lose
                                                     but
                                                                            recent
    'I lost my keys, but I found them.'
```

Dead subjects not possible (for the experiential reading)

Context: You are teaching a history lesson. You tell the kids:

- a. Ne kitia mua e Columbus a Amelika

 PST first sight ERG Columbus ABS America

 'Columbus discovered America.'
- b. Columbus Kua kitia Amelika mua е а PRF **ERG** Columbus ABS first sight America 'Columbus has discovered America.'

Recent past possible

kua faka-mea tei e au e motokua haau

PRF CAUS-clean recent ERG 1SG ABS car 2SG.POSS

^{&#}x27;I've cleaned your car.'

SUMMARY

- Perfects "strategies" are defined by
 - The type of meaning they convey
 - The restrictions on their use
- 3 types of perfect strategies
 - Experiential
 - Resultative
 - Hybrid
- The properties of the experiential strategy are remarkably consistent for the 3 languages in our sample.
- Resultative and hybrid strategies are more variable cross-linguistically.

DISCUSSION AND OPEN QUESTIONS

- Perfect "Strategies"
 - Have specialized readings
 - Are restricted to these uses
- So are they aspectual markers?
- Brazilian Portuguese and Québec French's use of já/déjà for experientials

```
Moi j'ai déjà monté une montagne
```

Me I have already climbed a mountain?

^{&#}x27;Me, I have climbed a mountain.'

- Are já/déjà aspectual markers?
 - Dahl & Vellupillai (2011) consider that some language build the perfect with 'already'.
 - Do they instantiate an aspectual category?
 - Brazilian Portuguese and Québec French tense and aspectual systems
 - Verbal morphology
 - Should it include adverbs?
- Are já/déjà experientials pragmatically equivalent to the experiential strategies without instantiating aspectual categories?

- Morphosyntactic criteria must be language specific
 - Cf. Portner (2011) who defines the perfect as "a grammatical construction which is built from a participal verb phrase and an auxiliary ...".
 - Restricting the perfect to its morphosyntactic form in English makes the wrong predictions
 - General purpose past perfectives
 - Québec French passé composé, Brazilian Portuguese preterito perfeito,
 Dutch/German have + past participle
 - Hybrid perfect
 - Niuean particle, Swahili prefix $m\varepsilon$ -, St'at'imcets particle plan

- Necessity to use language specific criteria for the form and categorization
 - Tense and aspect markers form paradigms
 - Semantics
 - Morphosyntax

IS THERE SUCH A THING AS "THE PERFECT"?

- Is there one perfect, or are there many different types of perfect?
- What's special about the specific combination of the experiential and resultative perfects?
- Future research
 - Deconstructing the perfect (more)
 - Derive perfect-type meanings from more basic aspectual components.

We hope that the current project is a first step toward this goal.

Thank you!

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REFERENCES

- Baker, Mark C., and Jim McCloskey. 2007. On the relationship of typology to theoretical syntax. *Linguistic Typology* 11.1, 285-296.
- Bybee, Joan, Revere Perkins, and William Pagliuca. 1994. The evolution of grammar: Tense, aspect, and modality in the languages of the world. Chicago and London: The University of Chicago Press.
- Chen, Sihwei, Jozina vander Klok, Lisa Matthewson, and Hotze Rullmann. 2017. Decomposing the experiential perfect: The view from Atayal and Javanese. Paper presented at AFLA.
- Comrie, B. 1976. Aspect: An introduction to the study of verbal aspect and related problems. Cambridge: Cambridge University Press.
- Dahl, Ö. 1985. Tense and Aspect Systems. New York: Basil Blackwell.
- Dahl, Ö. & Viveka Vellupillai 2011. The Perfect. In Dryer & Haspelmath, World Atlas of Language Structures Online. Retrieved from http://wals.info/chapter/68.
- Klein, Wolfgang. 1992. The present perfect puzzle. Language 68: 525-552.

REFERENCES

- Klein, W. 1994. Time in Language. London: Routledge.
- McCawley, J. 1971. Tense and Time Reference in English. In Fillmore and Langendoen (eds.), Studies in Linguistic Semantics, Holt Rinehart and Winston, New York, pp. 96-113.
- McCoard, R. 1978. The English Perfect: Tense-Choice and Pragmatic Inferences. North-Holland, Amsterdam.
- Polinsky, Maria, and Robert Kluender. 2007. Linguistic typology and theory construction: Common challenges ahead. *Linguistic Typology* 11.1, 273-283.
- Portner, Paul. 2003. The temporal semantics and modal pragmatics of the perfect, *Linguistics and Philosophy* 26, 459-510.
- Portner, Paul. 2011. Perfect and Progressive. In Claudia Maienborn, Klaus von Heusinger, and Paul Portner, (eds.) Semantics: An International Handbook of Natural Language Meaning, Vol. 2. Berlin: Mouton de Gruyter.