

MASS/COUNT

## GRAMMATICAL MASS/COUNT

Some languages have a grammatical distinction between mass and count nouns.
(1) a. There is rope in the garage.
b. There is a rope in the garage.

The terminology is extremely misleading!!
You can often describe the exact same thing with a mass noun or a count noun.

## GRAMMATICAL TESTS

Each language has its own linguistic tests for grammatical mass/count.

## E.g. for English:

- Can be singular bare argument, then mass
- Can be pluralised, then count
- Compatible with every/each/a, then count
- Many/few vs. much/little

If you cannot find such tests in a language, then there's no grammatical mass/count in it.

Important: semantic (in)compatibility is not a good test for grammatical mass/count, e.g. multiple

## TERMINOLOGY

The terminology ('mass', 'count') is very misleading!

Nouns describing uncountable objects tend to be grammatically mass; nouns describing countable objects tend to be grammatically count.

But furniture, footwear, clouds, mashed potatoes, etc.

- Near-synonymous pairs: letters/mail, coins/change, suitcases/luggage
- Nouns that could be either: rope, hair, liquid
- Nouns that don't have physical properties: prejudices, beliefs, information, knowledge, advice
- Crosslinguistic unstability


## SEMANTIC EFFECTS

However, the grammatical mass/count distinction is not completely void of meaning.

For nouns that could be either (hybrid/flexible nouns), there seems to be a semantic effect.

The comparative task (Barner \& Snedeker 2005; cf. Bale \& Barner 2018)



## THEORIES AND PROJECTS

Some assume that grammatical mass and/or count always have meaning (Link 1983, Chierchia 1998, Barner \& Snedeker 2005).
Good for hybrid nouns, but:

- Nouns that are always mass are arbitrary: furniture, evidence, blood, saliva
- Nouns that are always/predominantly count might be too: mashed potatoes, French fries, clouds

Potential projects:

- Tests for grammatical mass/count
- Semantics of grammatical mass/count? (cf. Lima 2014, 2018)
- My ongoing experimental project with Kurt Erbach on potatoes


## CLASSIFIERS

## OBLIGATORY CLASSIFIER LANGUAGES

(2) Mandarin Chinese (Sino-Tibetan)
yì běn shū
one cl book 'one book'

yì zhī māo<br>one cl cat 'one cat'

sān běn shū three cl book 'three books'

sān zhī māo three cl cat 'three cats'

* yì shū one book
yì māo one cat
(3) Japanese (Japonic)

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kuruma ichi-dai car one-cl ‘one car'
``` hana ichi-rin flower one-cl 'one flower'
* kuruma ichi car one
kuruma san-dai
car three-cl
'three cars'

\section*{CLASSIFIERS}

Languages like Mandarin Chinese, Cantonese, and Japanese have hundreds of classifiers (not all are used frequently).
- https:
//en.wikipedia.org/wiki/List_of_Chinese_classifiers
- https://en.wikipedia.org/wiki/Korean_count_word
- https://en.wikipedia.org/wiki/Japanese_counter_word

Numeral Classifiers, the World Atlas of Language Structures: https://wals.info/feature/55A\#2/28.0/149.8

\section*{NOMINAL NUMBER}

Sanches-Greenberg-Slobin Generalisation: Obligatory classifier languages have no obligatory number marking on nouns, i.e. have general number nouns (Doetjes 2012).
(There might be optional number marking, e.g. Japanese reduplicated plurals)

But not all languages without obligatory number marking are classifier languages, e.g. Dëne Su̧tiné (Wilhelm 2008), Yudja (Lima 2014, 2018, Lima \& Rothstein 2018).

\section*{THEORIES}

Majority view (Chierchia 1998, Borer 2003)
- Classifier languages only have grammatically mass nouns.
- Classifiers turn mass nouns into count NPs.
(4) three *(pieces) of evidence/furniture

Alternative view (Sudo 2015, 2016)
- Numerals in classifier languages cannot function as modifiers on their own.
- Classifiers turn numerals into modifiers/predicates.

Potential project: Apply Sudo's (2015) arguments to a new language.

\section*{CZECH NUMERALS}

Potential project: Apply Sudo's (2016) theory to non-canonical numerals.
- Normal, e.g. dv-a/ě
- Aggregate, e.g. dv-oje used with pluralia tantum and collective nouns
- Taxonomic, e.g. dv-ojí used to count subkinds
- Group, e.g. dv-ojice used to count members of a group, e.g. dvojice mužů is a group of two men
(see Kim 2009, Dočekal, Grimm \& Ziková 2014, Wągiel 2018)

\section*{OPTIONAL CLASSIFIER LANGUAGES}
(5) egy/három (darab) könyv one/three (cl) book 'one/three book(s)'

Schvarcz \& Rothstein (2017) claim that könyv is a hybrid noun; the classifier appears with the mass version.

Potential projects:
- See if S\&R's theory can apply to a new language.
- Compare S\&R's theory with Erbach, Sutton \& Filip's (2019) in Hungarian or a new language.

\section*{VERBAL CLASSIFIERS}
(6) Taroo-wa Ziroo-o san-patsu nagutta. Taro-top Ziro-acc 3-CL punched
'Taro punched Ziro three times'
(7) Dàlín dǎ-le Yùrú sān-quán. Dalin beat-PRF Yuru three-CL 'Dalin punched Yuru three times’
(Zhang 2017; Mandarin)

Such classifier phrases for verb phrases are extremely understudied in the theoretical literature (Donazzan 2012, Zhang 2017)

VERBAL NUMBER

\section*{VERBAL NUMBER}

Some languages mark verbs for number, similarly to nominal number. Verbal number morphology tends to convey one of two things:
- How many events
- How many participants

English does not have verbal number, although:
(8) a. He smokes.
b. They smoke.

Exercise: Show with examples that number marking on verbs does not perfectly correlate with the number of participants or events.

\section*{EX: MUPUN}
(9) a. \(n\)-tu joos

1sg-kill.SG rat
‘I killed a rat.'
b. n-tue joos

1sg-kill.PL rat
‘I killed rats.'
(Frajzyngier 1993: 60)
(10) a. *wu cit mo
he hits.SG them
'(intended) He hit them.'
b. wu nás war he hits.PL her
'He hit her multiple times.'

\section*{EX: FRENCH SIGN LANGUAGE}


Figure 3 Picture of FORGET-rep


Figure 4 Picture of FORGET-alt


Figure 5 Summary of available readings with /-rep/ and /-alt/
(Kuhn \& Aristodemo 2017)

\section*{POTENTIAL PROJECTS}

Verbal number is less well studied in the theoretical literature, compared to nominal number.

But we can ask similar questions:
- Morphological markedness and semantic markedness
- Unmarked plurals?

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