At the center of NP is Number

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1 Introduction: objects, substances and natural language

5 month old infants are able to distinguish between solid objects and non-solid substances.

- differences in motion;
- differences in the way they accumulate;
- differences in the way they are portioned.

The OBJECT VS. SUBSTANCE distinction emerges prior to language acquisition.

We can safely assume that all languages have ways of talking about both substances such as blood and objects such as tables.

Some languages have overt grammatical (i.e. syntactic) means that loosely correlate with that conceptual (i.e. semantic) distinction.

- (1) a. * I saw { every/ a } blood
 - b. I saw { every/ a } table

In linguistics, expressions such as *blood* are labeled as **mass**, and expressions such as *table* are labeled as **count**.

For some, like Link (1983, 1984), there is an isomorphism between the conceptual distinction and the grammatical distinction.

- (2) a. If x is an OBJECT-concept, x is countable and is expressed with a count noun.
 - b. If *x* is a substance-concept, *x* is non-countable and is expressed with a mass noun.

Q: Does the conceptual OBJECT-SUBSTANCE distinction shape the way that these concepts are expressed in Language?

A: Not really. It is the syntax that modulates count-mass expressions.



Figure 1: fitch 1

Figure 2: *fitch* 2

The argument from language acquisition.

(Soja et al. 1991)

- (3) a. this is a fitch \rightsquigarrow Figure 1
 - b. this is fitch \rightsquigarrow Figure 2

Variation in the expression of OBJECT and SUBSTANCE concepts

The structure of the matter in the actual world does not necessarily determine whether a noun (describing some entity/entities in the world) will be grammatically count or mass.

- (4) *rice, beans, lentils*: grains
 - a. * every rice in the stew is still raw.
 - b. every { bean/ lentil } in the stew is still raw.
- (5) jewel/jewelry, light/lighting, carpet/carpeting = OBJECT-concepts, and countable
 - a. every{ jewel/ light/ carpet }
 - b. * every{ jewelry/ lighting/ carpeting }

Cross-linguistic variation

The same OBJECT/SUBSTANCE-concept may be expressed as count or mass in a given language.

- (6) a. Pavarotti's **hair** has **all** been burned by a crazy fan.
 - b. I capell-i di Pavarotti sono stat-i tutt-i bruciat-i da un fan the.M.PL hair-M.PL of Pavarotti are been-M.PL all-M.PL burned-M.PL by a fan impazzito crazy
 'Pavarotti's hairs have all been burned by a crazy fan' (Chierchia 1998)
- (7) a. The furniture, *the furniture-**s**.
 - b. el mueble, lo-s mueble-s the.m furniture the.m-pl furniture-pl

(8)	Nez	z Perce	(Deal 2017)	(9)	<i>A. N</i>	Iongolian	(Toquero-Pérez 2025)
	a.	kike't, kuus			a.	tsos, os	
		blood water				blood water	
		'blood, water	' (substance)			'blood, water	r' (substance)
	b.	lepit { kike't/	kuus }		b.	* xoirV-n { t	sos/ os}
		two blood	water			two-attr b	blood water
		'two drops of	{blood/water}'			Int.: 'two dro	ops of { blood/ water}'

Languages differ in the flexibility of their roots to occur in a count or a mass context:

Interim conclusion

These 'word–world' mismatches indicate that the linguistic and conceptual (pre-linguistic) distinctions are independent of each other.

There are statistical connections between these distinctions and we can probably use them to inform our inferences. But there is little evidence that the linguistic facts transform the conceptual ones.

The data raise important questions about the grammatical encoding of 'being count' and 'being countable'.

- 1. What makes a nominal expression count as opposed to mass?
- 2. What do countable nominals, both count and mass, share in common?
- 3. What determines variation within and across languages?

2 Languages with an overt count-mass distinction (e.g. English)

There are important morpho-syntactic asymmetries between the class of count and the class of mass nouns.¹ (Krifka 1989; Chierchia 1998; Doetjes 1997, 2021)

- 1. Number marking: does the noun make a singular/plural distinction?
- 2. Modification: can the noun be modified by numerals?
- 3. **Determiner selection:** can the noun occur with certain determiners (e.g. *every, each, sev-eral, which*)?

Nouns that show all these are 'count' while those that do not allow any are 'mass'.

We will observe that the class of mass is not entirely uniform.

- (10) Number-marking
 - a. Johnny saw { this jewel/ these jewel-s }
 - b. Johnny saw { this blood/ *these blood-s }

¹An additional one that we will not be discussing is concerned with ellipsis. In particular, can the noun undergo *one*-substitution? For details, see Bloomfield (1933); Harley (2005); Bale and Gillon (2020); Toquero-Pérez (2024).

- c. Johnny saw { this jewelry/ *these jewelri-es }
- d. Johnny saw { *this fume/ these fume-s }

Within mass, there are three classes:

- unmarked = lack a PL-marked counterpart (e.g. *blood, water*)
- object = same root as count nouns, but resist PL-marking (e.g. *jewelry, furniture*)²
- plural = lack an unmarked counterpart (e.g. *fumes, dregs*)
- (11) Numeral modification
 - a. Johnny saw { one jewel/ two jewel-s }
 - b. * Johnny saw { one blood/ two blood-s }
 - c. * Johnny saw { one jewelry/ two jewelri-e s}
 - d. * Johnny saw { one fume/ two fume-s }

Some determiners can only occur with singular count nouns: every, each, a

- (12) a. Johnny saw every { jewel/ *jewel-s }
 - b. * Johnny saw every blood
 - c. * Johnny saw every jewelry
 - d. * Johnny saw every fume(-s)

Some determiners can only occur with plural count nouns: several, both

- (13) a. Johnny saw several { *jewel/ jewel-s }
 - b. * Johnny saw several blood
 - c. * Johnny saw several jewelry
 - d. * Johnny saw several fume-s

Some determiners can only occur with count nouns, singular or plural: which

- (14) a. Which { jewel/ jewel-s } are you talking about?
 - b. * Which blood are you talking about?
 - c. * Which jewelry are you talking about?
 - d. * Which fume-s are you talking about?

 (i) a. jewel-s jewel-ery
 b. kitchen-s kitchen-ware c. carpet-s carpet-ingd. bag-s bag-gage

²If a root appears in an object mass expression, it will (most likely) appear in a count expression giving rise to doublets (Toquero-Pérez 2024). We show this in (i) for English but the pattern is found in other languages (e.g. Spanish, French, Czech, Dutch, Greek)

	Μ	Mass			unt
	unmarked	Object	PL	SG	PL
1. sg/pl-distinction	*	*	*	v	/
2. Numeral modification	*	*	*	\checkmark	\checkmark
3. Determiner compatibility					
a) each, a, every	*	*	*	\checkmark	*
b) several, both	*	*	*	*	\checkmark
c) which	*	*	*	\checkmark	\checkmark

 Table 1: Morpho-syntactic properties of mass & count nouns

Count nouns form a natural class different from mass nouns.

Potential caveat: some determiners are compatible with both (all types of) mass nouns and only plural count nouns. These include *all* and measure words (e.g. *much, little, many, few, more* etc.).

- (15) a. Johnny saw { all/ more } { *jewel jewel-s
 - b. Johnny saw { all/ more } blood
 - c. Johnny saw { all/ more } jewelry
 - d. Johnny saw { all/ more } fume-s

Q: does this mean that mass nouns and plural count nouns must form a syntactic natural class to the exclusion of singular count?

Plural marking on the noun does not entail count properties!³

3 The count-mass distinction and the countable/non-countable distinction

Countable expressions are those that can be counted, i.e. measured in terms of cardinality.

Non-countable expressions are those that cannot be counted, i.e. measured in terms of a different dimension (weight, volume, length etc.).

There are (at least) two diagnostics to determine whether a noun is countable or non-countable.

- 1. **Size adjectives**: can the noun be modified by size adjectives? (Schwarzschild 2011)
- 2. **Measurement**: can the noun be measured in terms of 'cardinality' when paired with a measure expression (e.g. *much, more, many* and numerals)? (Bale and Barner 2009)

³Many analyses of the count/mass distinction presuppose that plural-marking is the defining property of count and countable nouns (e.g. Chierchia 1998; Borer 2005).

(16) Size adjectives

	a. Johnny saw the big { jewel/ jewel-s }.	c.	Johnny saw the big jewelry.
	b. * Johnny saw the big blood.	d.	* Johnny saw the big fume-s.
(17)	Measurement		

a.	Johnny saw more jewel-s than Bob.	cardinality, #volume
b.	Johnny saw more blood than Bob.	#CARDINALITY, VOLUME
c.	Johnny saw more jewelry than Bob.	cardinality, #volume
d.	Johnny saw more fume-s than Bob. ⁴	#CARDINALITY, VOLUME

There is a large degree of overlap between the countable/non-countable distinction and the classes of count and mass nouns respectively. But it is not a perfect correspondence.

Some important conclusions:

- Being count entails being countable.
- Being mass does not entail being non-countable.
- Plural-marking does not entail countability.

4 The grammatical encoding of count and countable properties

Count and mass NPs differ along two critical dimensions, both of which are syntactically encoded: INDIVIDUATED and Number marking.⁵

- INDIVIDUATED sorts the root into the class of things that can be counted, by introducing reference to atoms and sums of atoms.
- Number can be sg which is unmarked, or PL, which is marked.

Count nouns form a natural class because they are marked for both INDIVIDUATED and SG/PL.

Mass nouns form a natural class because they lack Number.

(18) The countability hypothesis

Being countable means being marked for individuation in the syntax.

⁴Imagine this context: *Bob saw two small blobs of fumes, whereas Johnny saw a single large blob of fumes.*

⁵Individuation as a syntactic property is not a novel idea, and has in fact been proposed to be encoded in different ways: as a feature on a head (e.g. Harley and Ritter 2002; Cowper and Hall 2009, 2012; Smith 2021) or as a dedicated functional head (e.g. Borer 2005; Bale and Barner 2009; Deal 2017).

4.1 Deriving the syntactic properties

(20) The basic syntax



NumP enables numeral modification.

Size adjectives seem to

(see Deal 2017, for ideas along these lines)

NP

jewel

√FUME

Ĵ

fume

√JEWEL

- require adjunction higher than the lowest NP:
 - 1. more peripheral than non-dimensional adjectives (e.g. *big African jewel(ry)*)
 - 2. require sG/PL-marking on the NP in some languages (e.g. Mongolian, W. Armenian)
 - 3. and are higher than classifiers (e.g. Hungarian, Teochew Southern Min)

- and impose a lexical requirement on the NP they modify.
- (21) [[A_{size}]] = λx: ∃x[P(x) ∧ *atom(x)].∃d[dimension(x) ≥ d]
 'The property of having a size to a degree larger than *d* satisfied if *x* is in *P* and it is an atomic thing or sum of atomic things'

Only [IND]-marked constituents have atoms in their extension.

(22) The articulated structure: numerals and size APs



4.2 Determiners

Features in the extended projection of the NP may appear on D as a result of an Agree relation. (e.g. Chomsky 2000; Carstens 2000)

Table 2: Decomposing Determiners						
Type of Determiner	<i>u</i> F on D	F on xNP				
sg-count D	[<i>u</i> sg:]	[SG]				
a, every, each	[<i>u</i> IND:]	[IND]				
PL-count D	[<i>u</i> PL:_]	[PL]				
several, both	[<i>u</i> IND:]	[IND]				
sg/pl-count D	[<i>u</i> Num:]	[SG/PL]				
which	[<i>u</i> IND:]	[IND]				

We can group determiners based on the unvalued (probing) features on D.

Back to all, much, many, more.

Mass nouns and plural count nouns do not form a syntactic natural class under this view: there is no feature or set of features that they have in common.

The existence of determiners like *all* or *more* seems like a big challenge to the account. But this is only purpotedly so.

Mass and plural count nouns form a semantic natural class: they are both cumulative.⁶

(23) $CUM(P) = \forall x [P(x) \rightarrow \forall y [P(y) \rightarrow P(x \cup y)]]$ 'a predicate *P* is cumulative if for every member in *P*, their sum is also in *P*'

The aforementioned determiners require that their NP complement (i.e. their restrictor) be cumulative. This can be encoded as in (24), where \mathcal{D} stands for all potential domains.

(24) For any set $P \subseteq \mathcal{D}$, [all/more/much/many](P) is defined if CUM(P) = 1

5 Languages with no overt count-mass distinction (e.g. Nez Perce)

There are other languages that, at least at first sight, differ from English. For example, that is the case of Nez Perce (Sahaptian, Deal 2017).

Despite having no overt count/mass distinction of the English type, there is still evidence for count and mass syntax as well as for countability.

5.1 Some basics

A sample of 'notional' count and notional mass nouns is in (25) and (26) respectively.

(25)	a.	'aayat woman	c.	walc knife	(26)	a.	samq'ayn fabric	c.	kike't blood
	b.	miya'c child	d.	'ileeptekey sock	/	b.	itx̂ clay	d.	qahas milk

In Nez Perce, plural-marking on nouns is restricted to human-denoting nouns. But plural-marking is obligatory on the attributive adjective.

5.2 count-mass diagnostics

Notional count nouns make singular/plural distinctions.

(27)	a.	Yox kuhet 'aayat	b.	Yox ki-kuhe	t ha-' ayat
		DEM tall woman		dem pl- tall	PL-woman
		'that tall woman'		'those tall wo	omen'

Notional substance nouns are grammatical with plural marker on the adjective. But the lack of plural corresponds to a difference in count vs. mass interpretation.

(28)	a.	cimuuxcimux samq'ayn		b.	o. cicmuxcicmux samq'ayn		
		black	fabric		PL.black	fabric	
		Mass: 'bla	ack fabric'		#Mass: 'bla	ck fabric'	
		#Count: 'a	a (piece of) black fabric'		Count: 'piec	es of black fabric	

⁶See, e.g., Quine (1960); Link (1983); Bach (1986); Krifka (1989); Chierchia (1998)

The same pattern is observed with numerals. They can directly combine with notional count and mass nouns. Again, the notional mass noun has a container reading.

- (29) kii lepit ciickan DEM two blanket 'those two blankets'
- (30) Speaker is toying with two nearly identical pieces of white modeling clay lepit 'itâ, kii kaa yoâ two clay DEM and DEM
 'Two pieces of clay, this one and that one'

All determiners in Nez Perce require that the NP is cumulative.

- (31) a. * { mac/ ilexni } 'ilp'ilp aatamoc how.much a.lot red car
 '{ How much/ a lot of } red car'
 b. { mac/ ilexni } he'ilpe'ilp aatamoc how.much a.lot PL.red car
 - '{ how many/ a lot } red cars'
- (32) { mac/ ilexni } 'ilp'ilp samq'ayn how.much a.lot red fabric
 '{ how much/a lot } red fabric'

These data suggest the following:

- unmarked notional count NPs must be underlyingly singular and count: they are not cumulative.
- unmarked notional mass NPs are not plural (count) underlyingly: PL is not exponed on the adjective.
- unmarked notional mass NPs are not singular (count) either underlyingly: they are cumulative.

Interim conclusion I

despite being different from English on the surface, underlyingly the language still makes a distinction between sG/PL-count and mass.

5.3 Countability

Size adjectives

Notional count nouns, both unmarked and PL-marked, are compatible with size adjectives.

(33)	a.	himeec	is picpic	
		big	cat	
		(the) t	oig cat'	

b. **ki-**kuckuc laatis PL-small flower '(the) small flowers' Notional mass nouns can combine "directly" with a size adjective.

- (34) a. himeeq'is kuus big water '(the) big portion of water'
- ki-kuckuc kuus
 PL-small water
 '(the) small portions of water'

But note the following:

- the interpretation is again a container one.
- when a determiner is added to the unmarked notional mass noun modified by the size adjecive, the expression is ungrammatical (35). (adapted from Deal (2017))
- (35) * { mac/ ilexni } himeeq'is kuus how.much a.lot big water
 '{ how much/ a lot } big portion of water'

The data in (35) suggests that (34a) are underlyingly singular count.

This is similar to English (36)

(36) We ordered a large { water/beer } for the table.

Who has more NP?



'ileeptekey 'sock'



qahas 'milk'

37)	a.	Issii-nm 'uu-s qetu 'ilexni ti- ta'c 'ileeptekey?	
		who-gen have-pres compr a.lot PL- good sock	
		'Who has more good socks?'	cardinality, # volume
	b.	'Issii-nm 'uu-s qetu 'ilexni ti- ta'c qahas? who-gen have-pres compr a.lot PL- good milk	
		'Who has more portions of good milk?'	cardinality, # volume
	c.	'Issii-nm 'uu-s qetu 'ilexni ta'c qahas? who-gen have-pres compr a.lot good milk	
		'Who has more good milk?'	#CARDINALITY, VOLUME

- Interim conclusion II

Nez Perce distinguishes between countable and non-countable nouns just like English.

5.4 The syntax of Nez Perce



6 Broader implications: different but equal

The same surface expression water/ kuus may be underlyingly mass or underlyingly count.

The syntax of natural languages determines whether an expression α is count or mass, regardless of the surface form.

What makes an NP count as opposed to mass?

Count NPs are decomposed into two sets of features: [IND] on N, [SG/PL] on Number.

Mass NPs are best understood as lacking Number.

What makes countable NPs, both count and mass, form a natural class?

The property that enables this is being marked for [IND]. NPs unmarked for [IND] are non-countable.

Our proposal predicts the typology in (3):



What determines variation?

Shifts between classes of NPs can be accounted for by pairing a root with a different N-head.

At the interface, the object put together by the syntax must be mapped to an exponent and an appropriate meaning: Table 3.

Form		Syntax		Meaning	example				
water	\Leftrightarrow	$\left[\sqrt{\text{ROOT}} \text{ N}\right]$	\leftrightarrow	'water substance'	water				
water	\Leftrightarrow	$\left[\left[\sqrt{\text{ROOT}} \text{ N}[\text{IND}\right]\right]$	\leftrightarrow	'water unit'	2 waters				
waters	\Leftrightarrow	$\left[\sqrt{\text{ROOT}} \text{ N[pl]}\right]$	\leftrightarrow	'water abundance/type	international waters				

Cross-linguistic variation can be accounted for in similar terms. Certain roots cannot be licensed (i.e. assigned a meaning or form) at the interface in the relevant context.

The syntax is blind as to whether a root can be adjoined to one categorizer or another. But this does not entail that any root-categorizer pair will be appropriately licensed at the interfaces.

(Harley and Noyer 1998, 1999; Acquaviva 2009; Harley 2014)

Cross-linguistic variation thus results from the way that the syntax puts terminal nodes together in concert with the satisfaction of the different requirements at the interfaces.

Language	Form		Syntax		Meaning	example
N. Perce	kuus	\Leftrightarrow	[√root N]	\leftrightarrow	'water substance'	kuus
	kuus	\Leftrightarrow	$\left[\sqrt{\text{ROOT}} \text{ N}[\text{IND}]\right]$	\leftrightarrow	'water unit'	3 kuus
	kike't	\Leftrightarrow	[√root N]	\leftrightarrow	'blood substance'	kike't
	kike't	\Leftrightarrow	$\left[\sqrt{\text{ROOT}} \text{ N}[\text{IND}]\right]$	\leftrightarrow	'blood unit'	2 kike't
English	water	\Leftrightarrow	[√root N]	\leftrightarrow	'water substance'	water
	water	\Leftrightarrow	[√root N[ind]]	\leftrightarrow	'water unit'	2 waters
	blood	\Leftrightarrow	$\left[\sqrt{\text{ROOT}}\overline{N}\right]$	\leftrightarrow	'blood substance'	blood
	blood	\Leftrightarrow	[√root N[ind]]	\leftrightarrow	#	2 bloods
Mongolian	OS	\Leftrightarrow	[√root N]	\leftrightarrow	' water substance'	OS
	OS	\Leftrightarrow	[√root N[ind]]	\leftrightarrow	#	2 os
	tsos	\Leftrightarrow	[√root N]	\leftrightarrow	' blood substance'	OS
	tsos	\Leftrightarrow	[√root N[ind]]	\leftrightarrow	#	2 tsos

Table 4: Idiosyncratic variation across-languages

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