Animating the narrow syntax

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GLOW April 3rd, 2014

Goals

Empirical claim

- Animacy may or may not be part of the grammatical system of a language

Theoretical problem

- What does it mean for animacy to be part of the grammatical system?
- And why isn't this universal?

Overview

- 1. Effects of animacy in natural language
 - i) ontological underpinnings
 - ii) when grammar rules
- 2. **Background** on narrow syntax and the universal spine
- 3. **Macro-variation** in grammatical animacy marking: to have or not to have animacy
- 4. **Micro-variation** in grammatical animacy marking: the locus of animacy

The cognitive importance of animacy

It is also the case that infants distinguish between inanimate objects and animates, namely humans, in important ways. For example, they recognize that humans are self-propelled while inanimate objects move only after contact with another object.

Kuhlmeyer, Bloom & Wynn 2004: 95

...human thought is organized as a system. I explore the hypothesis that the cause of this difference is a grammatical way of structuring semantic information, and I present evidence that the organization of grammar precisely reflects the organization of a specific mode of thought apparently distinctive of humans.

Hinzen 2013: 1

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 - i) when world knowledge matters
 - ii) when grammar rules
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- 4. **Micro-variation** in grammatical animacy marking: the locus of animacy

Animacy, or the distinction between animate and inanimate entities, is so pervasive in the grammars of human languages that it tends to be taken for granted and become invisible.

... studies of animacy have [...] concentrated on what has been called **the animacy hierarchy** [...] **HUMAN>ANIMAL> INANIMATE**.

Hierarchies of this kind have been assumed by typologists to underlie various implicational universals.

	Animate	Inanimate
AGENT, EXPERIENCER	✓	X

(1) a. The boy was scared.

b. #The tree was scared.

	Animate	Inanimate
INALIENABLE POSSESSION	✓	✓

(1) John has a broken arm

(2) The oak tree has many branches

	Animate	Inanimate
INALIENABLE POSSESSION	✓	✓
ALIENABLE POSSESSION	✓	X

- (1) John has a bird.
- (2) #The oak tree has a family of birds
- (3) The oak tree has a family of birds in it



Animacy hierarchy effects:

differential object marking

Case-marking	Human	Animate	Inanimate
Vietnamese	X	X	X
Spanish	✓	X	X
Russian	✓	✓	X
Hungarian	✓	✓	✓

From Haspelmath 2008

If any P is overtly case-marked, then all P's that are higher on the animacy scale, the definiteness scale, or the person scale are marked at least to the same extent. Silverstein 1976

- (1) Spanish
 - a. El director busca el carro.'The director is looking for the car'
 - b. El director busca el perro

 'The director is looking for the dog.'
 - c. El director busca a su hijo

 'The director is looking for his son.'

Haspelmath 2008

(1) Llamó a la muerte call-PAST.3.s P the death 'S/he called out to death.'



(2) Llamó la muerte.

call-3.s the death

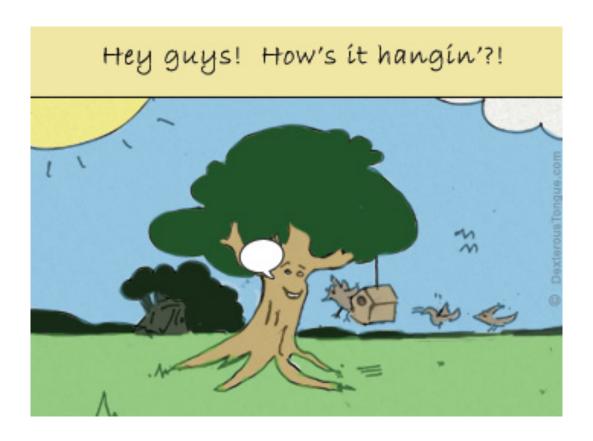
'S/he called out to death.'

Hanssen 1945: p296 (via Karen Zagona, p.c.)

(1) This tree is scared.



(1) This tree has a family of birds.







Animacy is an ontological type (not a grammatical category) Ramchand (2008), Folli & Harley (2008), Dahl (2008)





... what has been referred to in the literature as the animacy hierarchy is essentially a reflection of different ways of realizing grammatically a fuzzy dichotomy, at the base of which is the distinction between persons, that is, essentially human beings perceived as agents, and the rest of the universe. The dichotomy is fuzzy because we have the possibility of sometimes treating inanimate entities as persons and, perhaps less often, human beings as non-persons, in one sense or the other.

Dahl 1999: 99



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Essential characteristics of a grammatical category

'a **partitioning** of a syntactic category into subclasses that are marked (at least partially) morphologically and that are relevant to syntax, most notably by being involved in agreement operations'

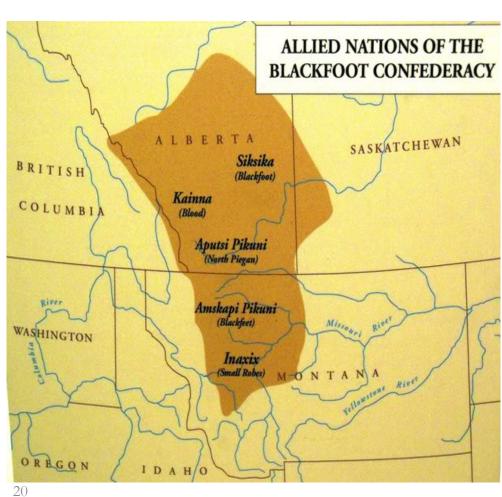
Danon 2010: 149

The partitioning is **categorical** any given noun is categorized as either animate or inanimate

The partitioning is sensitive to AGREE and SELECT

Blackfoot





Effects of animacy in Blackfoot

Obligatory categorical partitioning

aakíí nan aakíí. nan aakiika'ksímii nin

aakííkoan nan aakííkoan. nan

aakíípasskaan nin

ááksi'ksaahko nin

aamio'kakiikinaatt<mark>s</mark> nin

ı

aamsskáápipikani \ nan

Woman

woman/queen (card); **aakííksi** women; see *kipitáaakii* old woman; fringed sage, *Artemisia frigida; **aakííka'ksimiiyistsi** fringed sages; also **aakiika'ksimo**; cf. aakii+ka'ksimo

Girl

girl; i'nákaakííkoaiksi little girls; nitáákiikoama my girlfriend.

women's dance; **aakíípasskaanistsi** women's dances; also paisskaan; see also *o'taksipasskaan*; cf. aakii+ipasskaan.

bank, embankment, cliff; **sspáksi'ksááhkoistsi** high cliffs/ cut banks.

muskrat root (bitter root), *Acorus calamus;

áámio'kakiikinaattsiistsi muskrat roots; also *omio'kakiikinaattsi*; cf. mamii+o'kakiikin+inaattsi.

South Peigan (band of the Blackfoot tribe);

Amsskáápipikaniikoaiksi Southern Peigan persons; cf. waamsskaap+piikani

When grammar rules

Grammatically animate nouns for ontologically inanimate things

Meaning	[Animate] noun
'pipe'	kippiaapi
'blood clot'	katoyis
'stove'	po'táa'tsis
'finger'	mookítsis
'blanket'	si'káán
'wagon'	áínaka'si

F&R: 1995

Effects of Animacy in Blackfoot

AGREE

(1) a. *Oma sááhkomaapiwa íiksspitaawa*.

om-wa saahkomaapi-wa iik-sspitaa-wa

DEM-PROX boy-PROX INTNS-be.tall.AI-PROX

'That boy is tall.'

b. *Omiksi* sááhkomaapiks ííksspitaawa.
om-iksi saahkomaapi-iksi iik-sspitaa-wa
DEM-PL boy-PL INTNS-be.tall.AI-PL-3PL.PRN
'Those boys are tall.'

Effects of Animacy in Blackfoot

AGREE

(1) a. *Omi náápioyisi íiksspiiwa* om-yi naapioyis-yi iik-sspii-wa
DEM-INAN house-INAN INTNS-be.tall.AI-PROX
'That house is tall.'

b. *Omistsi* náápioyisists íiksspiiyaawa
om-**istsi** naapioyis-**istsi** iik-sspii-yi-aawa
DEM-PL house-PL INTNS-be.tall.AI-PL-3PL.PRN
'Those houses are tall.'

When grammar rules



(1) *ámostsi* pisátssaisskiistsi iikí'taamssiiyaawa amo-(i)stsi pisatssaisski-istsi iik-i'taam-ssi-y(i)-(y)aawa this-IN.PL flower(in)-IN.PL very-happy-be.AI-pl-pron 'These (inanimate) flowers are happy.'

Even more animacy effects in Blackfoot

Verbal classification

		bring to town.
ihtsiiyimm	vta	admire; ihtsííyimmisa! admire her!; áakihtsiiyimmiiwa she will
	/ \	admire him; iihtsííyimmiiwa she admired her; nítsstsííyimmoka
		she admired me; nitáíhtsiiyimmoka she admires me.
ihtsiiyi'tsi	∨ti	admire, like; ihtsííyi'tsit! admire it (e.g. the chair)!;
	/	áakihtsiiyi'tsima omi náápiooyisi she will admire (the
		appearance of that house; iihtsííyi'tsima he liked it (e.g. the name
		he was given); nítsstsiiyi'tsii'pa kisóka'sima l admired your
9.6.9		dress; Rel. stem: vai <i>ihtsiiyi'taki</i> admire.
ihtsikssi	vai	be sleepy; (ihtsíkssit! be sleepy!); áakihtsíkssiwa she will be;
		iihtsíkssiwa he is sleepy; nitáíhtsikssi l am sleepy;
		(ki)kátai'ihtsíksspa? Are you sleepy?; nítsstsikssi l'm sleepy;
		nitsíkihtsikssi l'm very sleepy.
á'pai'piksi	∨ti	arrange; a'páí'piksit! re-arrange it!; áaká'pai'piksima she will
		arrange it; a'páí'piksima anni sóópa'tsisi he arranged the chair;
		nitá'pai'piksii'pa l arranged it; á'pawai'piksima anniistsi
	\ /	sóópa'tsiistsi he is arranging the chairs.
a'paisii	vii	it passes (said of time); áaka'paisiiwa time will pass; a'páísiiwa
	\ . /	time passed; stáma'paisiiwa and time passed.
a'paisskin	vta	touch/manipulate the face of; a'paisskinisa! touch her face!;
		áaka'paisskiniiwa you will touch her face; á'paisskiniiwa he
		touched her whole face; nitá'paisskinoka she is manipulating my
		face; cf. sski.

Summary

- Empirical claim:
 - Animacy may or may not be part of the grammatical system of a language

	Ontological type	Grammatical category
English	✓	X
Blackfoot	✓	

Goals

Empirical claim

- Animacy may or may not be part of the grammatical system of a language

• Theoretical problem

- What does it mean for animacy to be part of the grammatical system?
- And why isn't this universal?

Proposal



Animacy may enter the narrow syntax

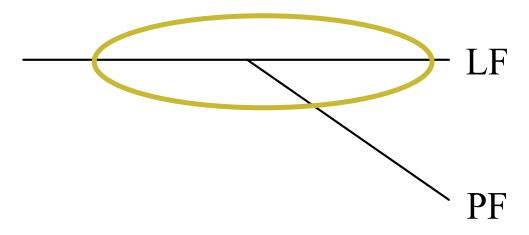
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What is *narrow syntax*?

...technically, the **mental-computational path** leading from a selection of a number of lexical items stored in long-term memory to a syntactic representation of "logical form" (LF) at the syntax-semantics interface (see Chomsky, 1995)

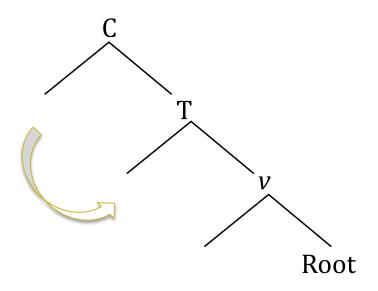
Hinzen 2013: 2



What is *narrow syntax*?

... structure building operation (MERGE)

... relation-building operations (SELECT, AGREE)



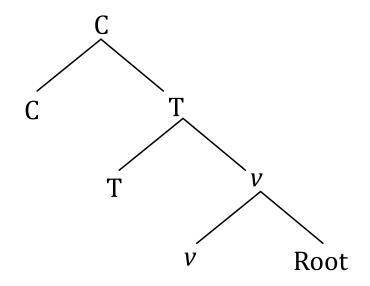
What is *narrow syntax*?

... invariant

The universal base hypothesis

The deep structures of all languages are identical, up to the ordering of constituents...

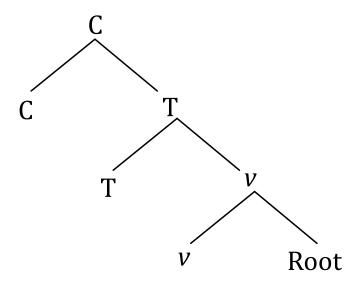
Ross 1970[1968]:260



The problem

What does UG look like if languages can differ according to whether animacy is grammaticized?

How do you have a fixed structure but variable content





The problem



Universals and variation

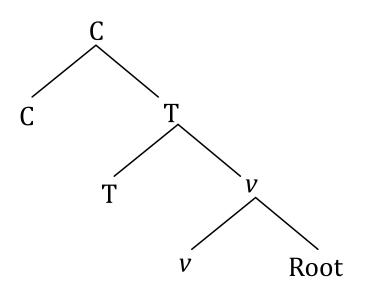
- i. There is evidence for the universality of categories
- ii. Languages vary in their categorial inventories

	Ontological type	Grammatical category
English	✓	X
Blackfoot	√	√

The problem

The problematic assumption:

The set of universal categories is a repository of grammatical categories

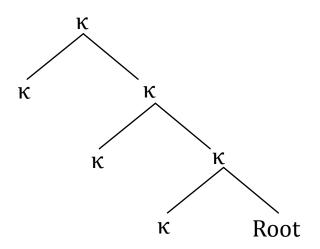


Towards a solution

Getting rid of labels??

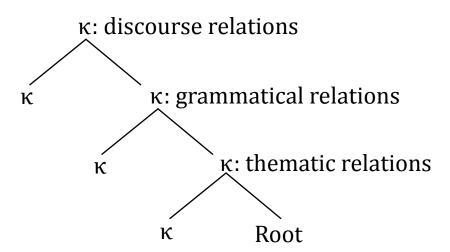
No pre-fabricated labels for categories

(Chomsky 1995; Collins 2002)



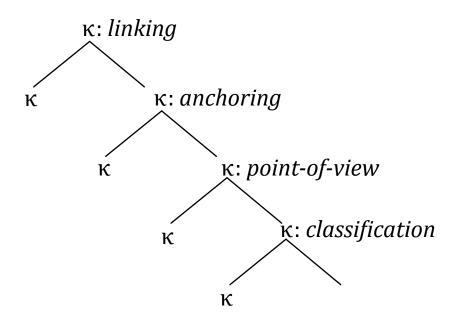
Towards a solution

A universal hierarchy of relations

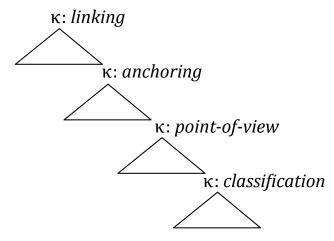


The universal spine

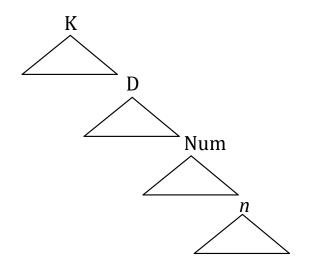
A universal hierarchy of abstract functions

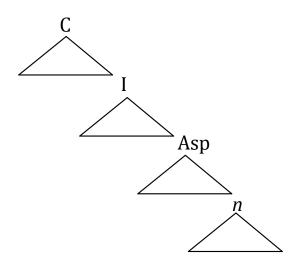


The universal spine



Nominal and verbal instantiations

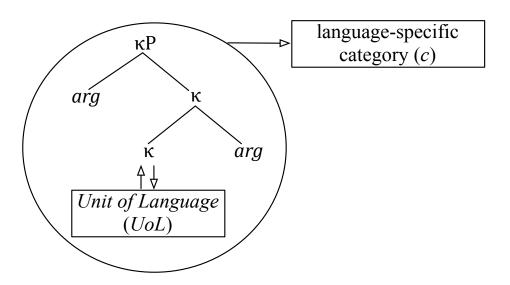




Variation in categorial inventories

Language specific categories are constructed





The content of language specific categories may vary.

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• Theoretical problem

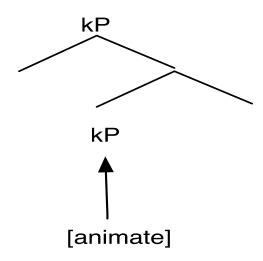
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The category of animacy

• Which category of Bf (but not English, Spanish, etc.) is constructed by association with formal content representing animacy?



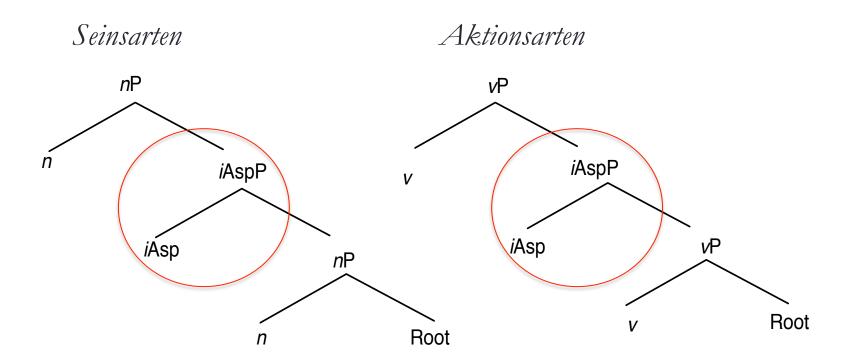
A footnote on notation

Animate vs. Inanimate

[animate] (non-animate)

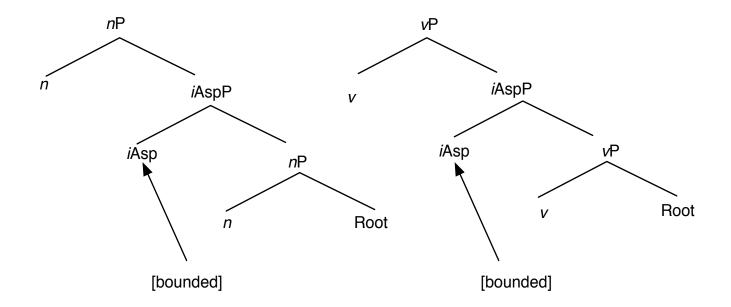
The category of animacy

• Inner Aspect (iAsp) – lexical aspectual classification



iAsp in English

Seinsart
[bounded] count
(non-bounded) mass



Aktionsart

telic

atelic

Prediction - Complementarity

if *i*Asp is associated with [animate], it is not also associated with [bounded]:

NO evidence of [bounded] in nominal iAsp:

→NO grammaticalized count-mass distinction

NO evidence of [bounded] in verbal iAsp:

→NO grammaticalized telic-atelic distinction

No grammaticalized count-mass distinction in Bf

- Wiltschko (2009, 2012): Blackfoot lacks a grammaticalized countmass distinction:
 - *all* nouns can be pluralized, including nouns that refer to substances
 - determiners are not sensitive to distinction between count & mass nouns
 - no strategies for reclassifying mass nouns (e.g. two <u>drops</u> of blood)
 - availability of bare NP arguments is not correlated with count-mass distinction

No grammaticalized telic-atelic distinction in Bf

- English: transitivity alternations \rightarrow alternations in telicity
 - (1) a. She ate the fish in an hour/*for an hour.
 - b. She ate (fish) for an hour/*in an hour.
- Blackfoot: verbs are overtly marked for (in)transitivity
 - (2) na-oo-wat-yii-wa amo mamii transitive PST-eat-TA-DIR-3SG DEM fish.AN 'S/he ate this fish.'
 - (3) na-oo-yi-wa (mamii) "intransitive" PST-eat-AI-3SG(fish.AN) 'S/he ate (fish).'

...but this is not correlated with telicity

No grammaticalized telic-atelic distinction in Bf

• Ritter & Rosen (2010): telicity tests indicate no difference between verb classes:

	Transitive TA/TI	Intransitive AI/AI+O
aspectual verb 'finish'	✓	✓
durative adv 'in X time'	\checkmark	✓
time frame adv 'for X time	✓	✓
imperfective paradox	\checkmark	✓

 alternation between transitive (TA/TI) and intransitive (AI/AI+O) verbs does not signal a shift between telic and atelic predicates

Prediction - Lexical Aspectual Classes

If *i*Asp is associated with [animate], then all lexical aspectual classification is animacy based - *Aktionsarten* as well as *Seinsarten*:

Participant-based Aktionsarten in Bf

• Algonquian morphological verb classes (Bloomfield 1946) are *Aktionsarten* (Louie 2008)

Verb Class	Transitivity	Animacy
Transitive Animate (TA)	yes	animate
Transitive Inanimate (TI)	yes	inanimate
Intransitive Animate (AI)	no	animate
Intransitive Inanimate (II)	no	inanimate

Temporal-based Aktionsarten

• Vendler verb classes defined by temporal properties of the predicate:

Verb Class	Process	Boundedness
Accomplishments	yes	bounded
Activities	yes	unbounded
Achievements	no	bounded
States	no	unbounded

† † dimensionality delimiting argument

Participant-based Aktionsarten in Bf

•Algonquian morphological verb classes (Bloomfield 1948) are *Aktionsarten* (Louie 2008)

Verb Class	Transitivity	Animacy
Transitive Animate (TA)	yes	animate
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Intransitive Inanimate (II)	no	inanimate

† † dimensionality delimiting argument

Dimensionality

- **Temporal**: Does the event occur over a period of time? <u>English test:</u> progressive (= Vwpt Aspect)
- (1) a. John is walking/building a house.
 - b. #John is liking the show/realizing his mistake.

Participant: Does the event have more than one DP argument?

Blackfoot test: direct/inverse (= Vwpt Aspect)

(2) na-oo-wat-yii-wa amo mamii (3) na-oo-yi-wa
PST-eat-TA-DIR-3SG DEM fish.AN
PST-eat-AI-3SG
'S/he ate this fish.'

'S/he ate (sthg).'

Delimiting arguments

Temporal: Is there an argument that marks the temporal endpoint of a [bounded] event?

English: various strategies to derive [bounded] accomplishments from activities ... all require the addition of a [bounded] object.

- (1) a. Terry thought for an hour/*in an hour.
 - b. Terry thought **up** an answer in an hour/*for an hour.
- (2) a. Terry sang for an hour/*in an hour.
 - b. Terry sang a ballad in an hour/*for an hour.

Animate delimiting arguments

Participant: Is there an argument whose action or reaction delimits an [animate] event?

Blackfoot: various strategies to derive [animate] TA verbs ... all require the addition of an [animate] object

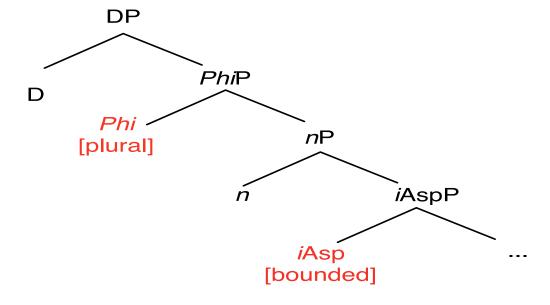
- (1) an-wa Rosie **nit**-o't-omo-ok-wa nit-inika'siniki
 DEM-PROX R 1-take-TA.BEN-3:1.3SG 1-CAR
 'Rosie took my car from **me**.' (Bliss 2010)
- (2) nit-ohpok-ooyi-**m**-yii-wa **ann-wa Pokaakii** pisátsi'nsimaan-iksi 1-with-eat-TA.ACCMP-DIR-3SG DEM-PROX Pokaakii vegetable-IN.PL 'I, together with **Pokakii**, ate vegetables; ≠I ate Pokaakii with vegetables.)

(Meadows 2010)

[animate] vs [bounded] – Consequences

• dependency between feature of iAsp and higher functional categories:

	<i>i</i> Asp	Phi
count nouns	[bounded]	[plural] or (non-plural)
mass nouns	(non-bounded)	default (non-plural)



[animate] vs [bounded] – Consequences

- In Blackfoot interaction between OBVIATION (reference tracking) and animacy:
- (1) a. om-yi saahkomaapi-yi
 DEM-OBV boy.-OBV
 'that boy (OBV)'
- b. om-wa saahkomaapi-wa
 DEM-PROX boy-PROX
 'that boy (PROX)'

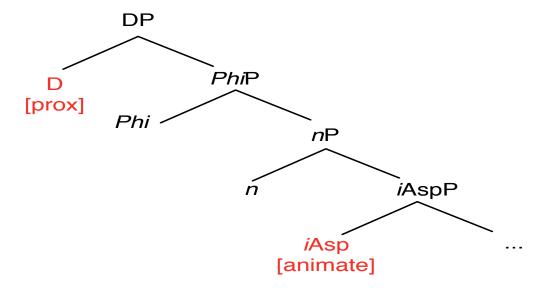
(2) a. om-yi naapioyis-yi
DEM-OBV house-OBV
'that house'

b. *om-wa naapioyis-wa
DEM-PROX house-PROX
'that house'

[animate] vs [bounded] – Consequences

• dependency between feature of iAsp and higher functional categories:

	<i>i</i> Asp	D
animate nouns	[animate]	[proximate] or (non-proximate)
inanimate nouns	(non-animate)	default (non-proximate)



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• How do you talk about fictional worlds where inanimate objects think, act and feel?

	The flower	is happy.
Strategy	Subject	Predicate
Mismatch	(non-animate)	[animate]
Reclassify DP	[animate]	[animate]
Reclassify predicate	(non-animate)	(non-animate)

... different Algonquian languages make different choices





• How do you talk about fictional worlds where inanimate objects think, act and feel?

		The flower	is happy.
Strategy		Subject	Predicate
Mismatch	Blackfoot	(non-animate)	[animate]
Reclassify DP	Plains Cree	[animate]	[animate]
Reclassify predicate	e Unattested	(non-animate)	(non-animate)

The "happy flower" puzzle



(1) Blackfoot:

amo-**istsi** pisatssaisski-**istsi** this-**IN**.PL flower-**IN**.PL 'These flowers are happy.'

iik-**i'taamssi**-y(i)-(y)aawa very-happy-be**.AI**-PL-PRON

(2) Plains Cree:

awa wāpikwaniythis.AN.SG flower.AN.SG'This flower is angry.'

kisiwāsi-w be.angry.AI-3.SG

(Johansson 2008)





Grammatically animate nouns of ontologically inanimate things

Meaning	[Animate] noun
'pipe'	kippiaapi
'blood clot'	katoyis
'stove'	po'táa'tsis
'finger'	mookítsis
'blanket'	si'káán
'wagon'	áínaka'si

F&R: 1995



When grammar rules

- "pipe" nouns have morphosyntactic properties of grammatically animate nouns
 - same nominal inflection as prototypical animate nouns:
 - may be subject of AI (not II) verb
 - may be object of TA (not TI) verb
 - (1) a. póósa-wa/-yi/-iksi b. kippiaapi -wa/yi/iksi cat.AN-PROX/OBV/AN.PL pipe.AN-PROX/OBV/AN.PL
 - (2) ann-wa ainaka'si yaak-it-ipoyi-wa ann-yi kssahko-yi dem-PROX wagon.AN FUT-LOC-stand.AI-3 DEM-OBV ground-OBV 'The wagon will be standing on the ground.' (Kim 2014)

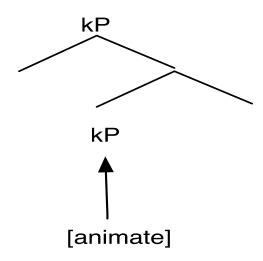




- no ontological motivation for classification of "pipe" nouns as [animate]
 - not capable of self-propelled motion
 - don't hold cognitive states
 - don't have physical properties of animate beings
- "pipe" nouns don't bear roles that require a semantically animate DP
 - *agent of transitive verb
 - *point-of-view holder
- set of "pipe" nouns is arbitrary
 - varies unpredictably across Algonquian languages

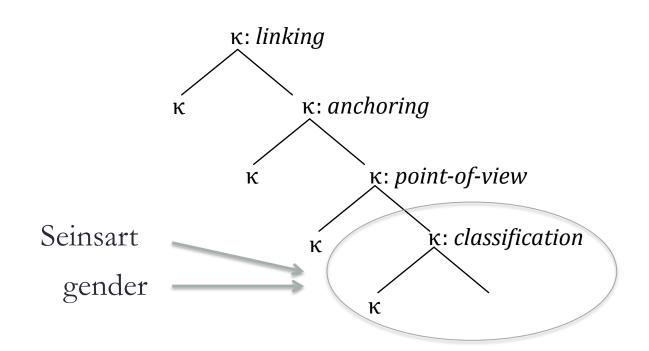
The category of animacy – a 2nd option?

• Which category of Bf (but not English) is constructed by association with formal content representing animacy?



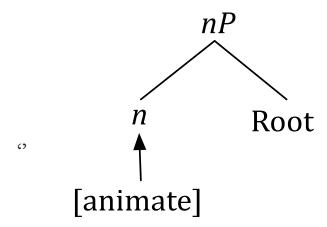
The category of animacy – a 2nd option?

A universal hierarchy of abstract functions



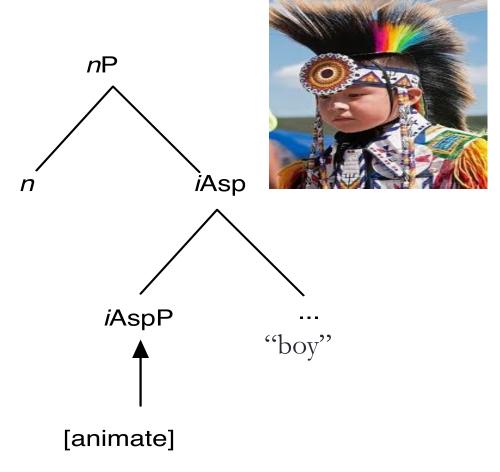
The category of animacy – a 2nd option?

(1) [animate] as gender





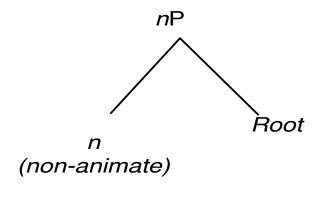
(2) [animate] as lexical aspect



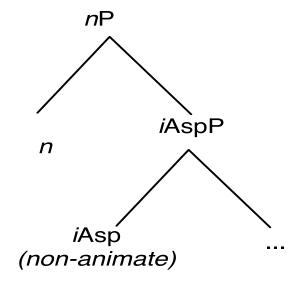




(1) inanimate as gender



(2) inanimate as lexical aspect

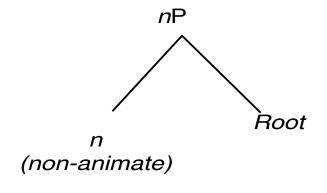


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Two options for inanimate nouns

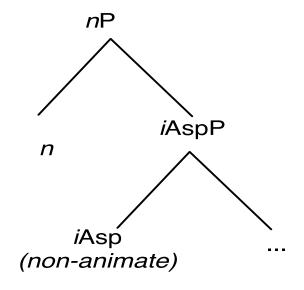


(1) inanimate as gender



Blackfoot

(2) inanimate as lexical aspect

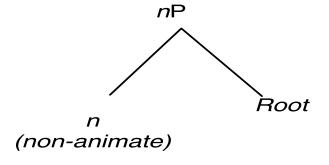


Plains Cree

Two options for "happy flowers"

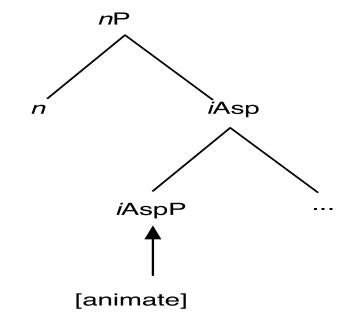


(1) inanimate as gender



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(2) inanimate as lexical aspect



Blackfoot:

-no change

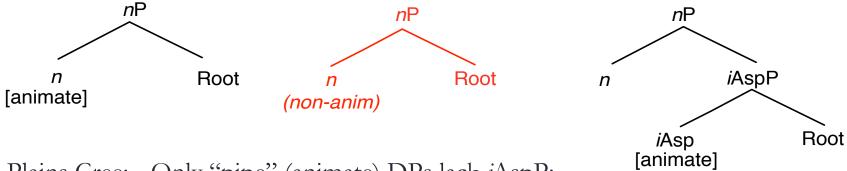
Plains Cree

add [animate]

Microvariation in the representation of inanimate nouns:

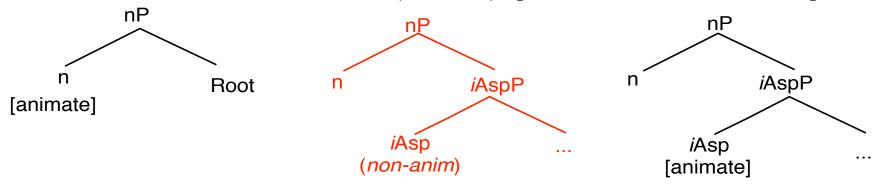


Blackfoot: All nouns that denote (normally) inanimate entities lack *i*AspP **Rigid**, arbitrary animacy specification = gender in *n*



Plains Cree: Only "pipe" (animate) DPs lack iAspP;

Flexible, non-arbitrary animacy specification = Seinsart in iASp



Goals

Empirical claim

- Animacy may or may not be part of the grammatical system of a language

Theoretical problem

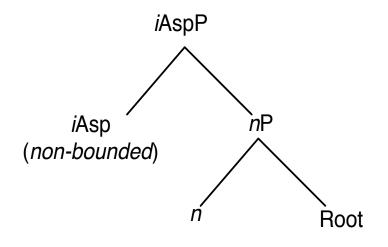
- What does it mean for animacy to be part of the grammatical system? [animate] associates with the universal spine.
- And why isn't this universal? Languages vary in their feature inventories.

Thank you.

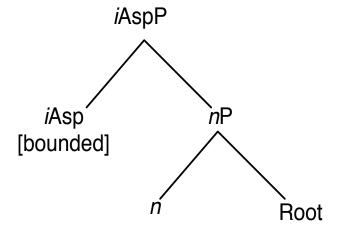
Extending the analysis: Flexible mass nouns in English



- •English **flexible** mass nouns (e.g. chocolate) are like Plains Cree inanimates:
 - -flexible, non-arbitrary boundedness specification
 - → compatible with both count and mass syntax









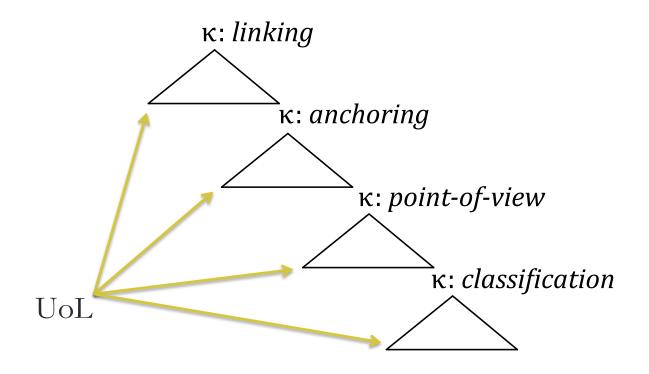
The cognitive importance of animacy

It is also the case that infants distinguish between inanimate objects and animates, namely humans, in important ways. For example, they recognize that humans are self-propelled while inanimate objects move only after contact with another object.

Kuhlmeyer, Bloom & Wynn 2004: 95

...human thought is organized as a system. I explore the hypothesis that the cause of this difference is a grammatical way of structuring semantic information, and I present evidence that the organization of grammar precisely reflects the organization of a specific mode of thought apparently distinctive of humans.

Variation in categorial inventories



Distributional and functional properties of categories may vary despite similar content

No grammaticalized count-mass distinction in Bf

• Blackfoot: bare NP arguments must be objects of morphologically intransitive (AI+O) verb

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(1) na-ooyi-wa (*ani) mamii/akoopis

NA-eat.AI-3SG DEM fish.an/soup.IN

'S/he ate (fish/soup).'
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(2) na-oowatoo-m-wa *(ani) akoopis
NA-eat.TI-TH-3SG DEM soup.IN
'S/he ate *(that) soup.'
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Animate delimiting arguments

Blackfoot: underived TA verbs: ✓ non-core [animate] objects underived TI verbs: ✗ non-core (non-animate) objects

- (1) a. nit-ohpommo-a-wa om-wa aakiikoan amo-istsi asoka'sim-istsi 1-buy.TA-dir-3sg DEM-PROX girl DEM-PL dress-PL 'I bought from that girl these dresses.'
 - b. nit-it-ohpommatoo-'p-yaawa amo-istsi asoka'sim-istsi
 1-there-buy.TI-1:iIN-3SG DEM-PL dress-PL
 om-yi iitaophomao'p-yi
 DEM-OBV store-OBV
 'I bought these dresses from the store.' (Bliss 2010)