# CHARACTERIZING GENERICITY AND EPISTEMIC COMMITMENTS

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## THE PLOT

The plot	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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### Generics

Generic statements convey generalizations.

- Generalizations: non-accidental, principled characteristics of some (type of) individuals/situations.
- Essential to express the ways in which we view the world and how we reason about it.

The plot O●OO	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
Charact	terizina Gen	erics (CGs	)		

• No general agreement on the criteria that single out *all and only* CGs.

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Charac	terizing Gen	erics (CGs	)		

- No general agreement on the criteria that single out *all and only* CGs.
- Two types of CGs, (roughly) depending of the type of subject:
  - ► CGs with *kind* denoting NPs (e.g., Dahl 1995, Pelletier and Asher 1997): the regularity holds of the kind **and** across individual instances of that kind.
  - (1) a. Triangles have three sides.
    - b. Birds fly.

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### Characterizing Generics (CGs)

- No general agreement on the criteria that single out *all and only* CGs.
- Two types of CGs, (roughly) depending of the type of subject:
  - ► CGs with *kind* denoting NPs (e.g., Dahl 1995, Pelletier and Asher 1997): the regularity holds of the kind **and** across individual instances of that kind.
  - (1) a. Triangles have three sides.
    - b. Birds fly.
  - "Habituals": CGs with object-denoting subjects, express a generalization over situations that are specified by the corresponding episodic predicate.
  - (2) a. Liz smokes after dinner.
    - b. The sun rises in the East.

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The pro	blem				

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## The problem

It is far from clear (i) what their truth-conditions are, and (ii) whether it is possible to provide a uniform analysis of all CG sentences, given the variety of conditions under which they are judged to be true.

- What counts as "non-accidental"? What counts as "principled"?
- What is "exceptional"?
- How do we form such generalizations?

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## Question

Is it possible to provide a single unified semantics for CGs?

## PROPERTIES OF CGS

The plot 0000	Properties of CGs ●○○○	Two theories 0000	A new perspective	The Czech suffix va	Conclusion 00000
1. Excep	otions				

- Some CGs allow exceptions:
  - (3) Birds fly.

 $\sim$ in the general case...

The plot 0000	Properties of CGs ●○○○	Two theories	A new perspective	The Czech suffix va	Conclusion
1. Exce	otions				

- Some CGs allow exceptions:
  - (3) Birds fly.
- Others don't:
  - (4) Triangles have three sides.

 $\sim$ in the general case...

#in the general case...

The plot 0000	Properties of CGs ●○○○	Two theories 0000	A new perspective	The Czech suffix va	Conclusion
1. Exce	ptions				

- Some CGs allow exceptions:
  - (3) Birds fly.
- Others don't:
  - (4) Triangles have three sides.
- Some CGs "integrate" the exception:
  - (5) Mosquitoes carry West Nile virus.

∼→in the general case...

#in the general case...

*¬*→*in the general case...* 

The plot 0000	Properties of CGs ○●○○	Two theories	A new perspective	The Czech suffix va	Conclusion
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2. Not about majorities

- Not any property that is true of a majority of a population guarantees the truthfulness of its corresponding generic statement.
  - (6) Germans are right-handed. FALSE, even if it turns out to be the case that most Germans are right handed.

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- Not any property that is true of a majority of a population guarantees the truthfulness of its corresponding generic statement.
  - (6) Germans are right-handed.
     FALSE, even if it turns out to be the case that most Germans are right handed.
- ⊕ Being a minority does not preempt CGs (as in the 'mosquitoes' example above); being a majority is not sufficient for forming CGs.

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion 00000
3. Inter	nsionality				

- Some generalizations have never been, or may never be, actualized:
  - (7) This machine crushes oranges.TRUE, even if the machine has never been used.

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3. Inter	nsionalitv				

- Some generalizations have never been, or may never be, actualized:
  - (7) This machine crushes oranges.TRUE, even if the machine has never been used.
- Co-extension does not guarantee truth:
  - (8) a. Lions have manes.TRUE even if only male lions have manes.
    - b. Lions are male.

FALSE even if the all and only the lions that are male have manes.

The plot 0000	Properties of CGs ○○○●	Two theories 0000	A new perspective	The Czech suffix va	Conclusion
So					

- The problem is that the truth of a generic statement does not (solely) depend on quantity, i.e., they do not (just) depend on knowing **how many** cases verify it.
- There is a tension:
  - We have clear intuitions about what CG-statements are.
  - We do not know what the necessary conditions to form CGs are.



We seem to understand generic statements, but we don't understand why we understand them.

## TWO THEORIES

The plot	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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## Question

Is it possible to provide a single unified semantics for CGs?

#### • Null hypothesis

CGs form a single class of sentence types constituting a unified phenomenon, for which a unified semantic analysis is possible and desirable.

The plot	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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## Carlson (1995): two perspectives for a unified analysis

- The Rules & Regulations (R&R) perspective: The truth of CGs depends on some causal structure or forces that are behind episodic instances in the world.
  - (9) a. Bishops move diagonally. game rules
    b. Tab A fits in slot B. operating instructions
    c. The Vice-President succeeds the President. parliamentary rules

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## Carlson (1995): two perspectives for a unified analysis

• The Induction perspective:

CGs express inductive generalizations whose base is some observed set of instances. They are **inferential** generalizations based on patterns, as such they must be backed up by evidence.

- (10) a. Birds fly.
  - b. Liz smokes after dinner.

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- Carlson (1995) favors the R&R approach, with reservations wrt. unification:
  - (11) a. Rule descriptions: ✓ R&R; XInd.
     Bishops move diagonally, In the UK one drives on the left...
    - b. Non-actuality: ✓ R&R; XInd. This machine crushes oranges, Tab A fits in Tab B...
    - c. ILPs:

John is a bachelor/murderer...

✓ R&R; **X**Ind.

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(11)	a.	Rule descriptions:	✓R&R ¥Ind.
		Bishops move diagonally, In the UK one drives on the	e left
	b.	Non-actuality:	✓R&R ¥Ind.
		This machine crushes oranges, Tab A fits in Tab B	
	с.	ILPs:	✓R&R ¥Ind.
		John is a bachelor/murderer	
	d.	Habituals:	¥R&R √Ind.
		John smokes after dinner, Liz drives to work	
	e.	Inferential generalizations:	<b>X</b> R&R √Ind.
		Crows are smaller than ravens	
	f.	Gradability:	<b>X</b> R&R √Ind.
		Dutchmen are good sailors, African marathoners rur	n fast
	g.	Exceptions:	<b>X</b> R&R √Ind.
		(Categorically excluded from R&R.)	

## A NEW PERSPECTIVE

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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## Question

Is it possible to provide a single unified semantics for CGs?

- Some linguistic expressions are dedicated (morphological) markers of certain type of inductive generalizations.
- Our focus: the stance that the cognitive agent takes on exceptions to the generically predicated property, which in turn correlates with different types of generalizations.

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
Focus o	n exception:	5			

## • Fact

For some generalization *g*, either there are exceptions to *g*, or there aren't; *E* ("has exceptions") induces a bipartition of the space of all *g*.

The plot 0000	Properties of CGs	Two theories 0000	A new perspective	The Czech suffix va	Conclusion
Focus or	n exceptions				

 Given that for any g, either E(g) or ¬E(g), a cognitive agent a may contend three hypotheses as to what a knows concerning the supporting evidence for g are: either a knows that g has exceptions, a knows that g hasn't exceptions, or a does not know.



The plot	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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$$K_a \neg E(g_1)$$
$$\neg K_a \neg E(g_2)$$
$$K_a E(g_3)$$

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#### • General Hypothesis

Learning of generalizations proceeds by either learning some R&Rs or by Induction.

• Different types of generalizations are amenable to one or other by virtue of the properties the relevant generalization is about; i.e. on its *base* (*sensu* Carlson 2008).

Cf. Cohen (1999), Greenberg (2003), Pelletier (2010), Krifka (2013), Doron and Boneh (2013), a.o.

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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#### exceptions

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 Different types of generalizations are amenable to one or other by virtue of the properties the relevant generalization is about; i.e. on its base (sensu Carlson 2008).



Where do R&R/Inductive CGs fall wrt. E?

Cf. Cohen (1999), Greenberg (2003), Pelletier (2010), Krifka (2013), Doron and Boneh (2013), a.o.

The plot 0000	Properties of CGs	Two theories 0000	A new perspective	The Czech suffix va	Conclusion
D&D Co	noralizations				

- R&R generalizations permit no exceptions, no counter-instances; they live in  $\neg E$ .
- They convey dispositions whose defining properties/conditions do not change, are taken to be tendentially stable.
- For a cognitive agent *a*, the issue of exceptions with SG wrt. some episode *p* to does not meaningfully arise; call these **Strong Generalizations** (SG).
  - (12) a. Triangles have three sides.
    - b. Cats are mammals.
    - c. This machine crushes oranges.
    - d. John is a bachelor.

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion

## Inductive Generalizations

- Inductive generalizations are **inferential**: by repeated observation of episodes  $p_1 \dots p_n$ , a pattern emerges.
- They are ceteris paribus.
  - (13) a. Birds fly.
    - b. John smokes after dinner.
    - c. Dutchmen are good sailors.
    - d. Typically books are paperback.
- Unlike SGs, these are **Weak Generalizations** (WG); the cognitive agent *a* cannot rule out the possibility of exceptions.

The plot 0000	Properties of CGs	Two theories 0000	A new perspective	The Czech suffix va	Conclusion
Caution					

- - (14) a.  $R\&R \Rightarrow$  no exceptions
    - b. No exceptions  $\Rightarrow$  R&R

The plot 0000	Properties of CGs	Two theories 0000	A new perspective	The Czech suffix va	Conclusion
Caution					

- There is no one-to-one correspondence between the presence/absence of exceptions and R&R/Induction:
  - (14) a.  $R\&R \Rightarrow$  no exceptions
    - b. No exceptions  $\Rightarrow$  R&R
  - Some "inductive" generalizations do not have exceptions:
    - (15) The sun rises in the East.

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
A clarif	ication				

- (16) a. Triangles have three sides.
  - b. The sun rises in the East.
  - c. John smokes after dinner.
  - d. Typically books are paperbacks.

Process	Generalization	Attitude wrt. E	
R&R	Strong	$K_a \neg E(g)$	(16a)
Induction	Strong	$K_a \neg E(g)$	(16b)
Induction	Weak	$\neg K_a \neg E(g)$	(16c)
Induction	Weak	$K_a E(g)$	(16d)

The plot	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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### Overt markers of Weak Generalizations

#### • Concrete Hypothesis

The weak/strong distinction is not just notional. The *linguistic reality* of such division is supported by the existence of expressions that pick out one sub-type.

• Up next: Czech verbal suffix *va*, which we take to be a generic marker of Weak Generalizations

We will not defend here that va is neither an IMPF nor HABITUAL marker; see earlier work by Hana Filip.

## THE CZECH SUFFIX VA

The plot	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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### Va and epistemic commitments to exceptions



Va-generics stand for weak generalizations that require compatibility with exceptions; 2 and 3: they signal that a is denying the existence of a relevant SG, thereby committing herself to either the knowledge of exceptions (3) or explicitly signaling her ignorance concerning the absence/presence of exceptions (2).

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va ○●○○○○○○○○○○	Conclusion
The Cz	ech suffix vo	1			

- *Va* (and its allomorphic variants) is a verbal suffix that previous literature has labeled as a frequentative or iterative marker (e.g. Dahl 1995, where *va* is treated as a marker of imperfective aspect).
- Here we will take for granted that *va* is not just a marker of imperfectivity (*pace* Dahl 1995; see the critic in Filip and Carlson 1997 and Filip 2018).
- Generic-va: a verbal suffix conveying genericity not to be confused with its homonymous imperfective suffix va.

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion 00000
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## The Czech suffix va

#### (17) Imperfective vs. generic va

a. psát

write.INF

episodic: to write/be writing generic: to write as a habit

- c. přepisovat
   ITER.write.IMPF.INF
   episodic: to rewrite/be rewriting
   generic: to rewrite as a habit
- e. dávat

give.IMPF.INF episodic: to give/be giving generic: to give as a habit

- b. psávat
   write.VA.INF
   episodic: generic: to write as a habit
- d. přepisová**va**t ITER.write.IMPF.VA.INF episodic: -

generic: to rewrite as a habit

f. dává**va**t give.IMPF.VA.INF episodic: generic: to give as a habit

The plot 0000	Properties of CGs 0000	Two theories 0000	A new perspective	The Czech suffix va 000●00000000	Conclusion

## 1. Obligatorily generic

- Unlike formally unmarked generic statements (e.g. with imperfective aspect) *va* is unambiguously generic (Filip and Carlson 1997).
  - (18) a. Honza sedí v hospdě. Jon sit.IMPF in pub
    'Jon {is sitting / (usually) sits} in a bar.'
    b. Honza sedává v hospdě. Jon sit.VA in pub
    - 'Jon {#is sitting / (usually) sits} in a bar.'
- Formally unmarked imperfectives behave as in English.

❸ Generic-va is sufficient but not necessary for CG.

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion

## 2. Obligatory verifying instances

- *Va*-generics require that there be at least one verifying instance of the generically-predicated property in the actual world.
  - (19) a. Tento stroj drtí pomeranče. this machine crushes oranges
    'This machine crushes oranges.'
    ...√'although we haven't used it yet.'
    - b. Tento stroj drtívá pomeranče. this machine crush.∨A oranges
      'This machine crushes-va oranges.'
      ...¥'although we haven't used it yet.'

• Generic-va is ungrammatical in the absence of evidence.

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## 3. Incompatibility with exceptionless CGs

- Va-generics are infelicitous with exceptionless generalizations such as analytical truths, constitutive and regulative rules, etc.
  - (20) a. Trojuhelník { má / #mívá } tři strany. triangle has has.vA three sides 'Triangles have three sides.'
    - b. V Anglii se { jezdí / #jezdívá } po levé straně.
       in England REFL drive drive.vA on left side
       'In England one drives on the left.'
    - c. Velryba { je / #bývá } savec.
       whale is is.vA mammal
       (Auchola is a mammal/)

'A whale is a mammal.'

• This makes generic-va different with Q-adverbs like usually, etc., which are oftentimes compatible with exceptions.

The plot	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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## 3. Incompatibility with universal-Q

• Similarly, *va*-generics are incompatible with universal quantification that uses up the same situation variable.

(21) # Každou sobotu Honza sedává v hospodě
 each Saturday John sits.vA in pub
 'Every Saturday John usually sits in the pub.'

The plot	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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## 4. Obligatory with positive-counterinstances

 Generic-va must be used to express generalizations that concern generic properties to which there are known positive counterinstances (Leslie 2008).

22)	a.	Books are paperbacks.	False
	b.	Typically, books are paperbacks.	True

The plot 0000		Proper 0000	ties of CGs T	wo theories	A new perspec	tive 00000	The Czech suffix va ○○○○○○○●○○○○	Conclusion
4. Ot	oliga	tor	y with pos	itive-co	ounterinst	ances		
•	Gen proj	eric pert	- <i>va</i> <b>must</b> be ι ies to which tł	ised to e here are k	xpress genera known positiv	alizations e counterii	that concern g nstances (Leslie	eneric e 2008).
					, provide the second seco		· · · · · · · · · · · · · · · · · · ·	, -
	(22)	a.	Books are pa	aperback	S.			False
		b.	Typically, bo	oks are p	oaperbacks.			True
	(23)	a.	Knihy	jsou	brožované.			
			book.pl.nom	be.IMPF	- paperback			
			'Books are p	aperbacl	k.'			False
		b.	Knihy	bý <b>va</b> jí	brožované.			
			book.pl.nom	be.va	paperback			
			'Books tend	to be pa	perback.'			True

The plot 0000	Properties of CGs 0000	Two theories	A new perspective	The Czech suffix va	Conclusion
5. No fi	requency co	nveved			

- The semantic contribution of the suffix *va* cannot be reduced to an ordinary quantifier over situations (e.g. *most*, *usually*).
- i. *va* marks generic sentences that are true even if most instances do not satisfy the generically-predicated property.

(24)	a.	Žraloci	napadá <b>va</b>	njí plavce.		
		shark	attack.vA	bather		
		'Sharks	may attac	k bathers.'		True
	b.	Žraloci	obyčejně	napadá <b>va</b> jí	plavce.	
		shark	usually	attack.vA	bather	
		'Sharks	tend to at	tack bathers		False

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E No f		nuovod			

5. No frequency conveyed

- The semantic contribution of the suffix *va* cannot be reduced to an ordinary quantifier over situations (e.g. *most*, *usually*).
- ii. *va* may freely occur with quantificational adverbs denoting low frequency, such as *rarely*.
  - (25) a. Ten šuplík bývá jen velmi zřídka zamčený. that drawer is.vA only very rarely locked 'That drawer used to be locked only very rarely.'
    - b. # Usually the drawer is very rarelay locked.

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E No f		nuovod			

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6. Episte	emic effects				

- In cases where exceptions to the generically predicated property are not known, *va*-generics convey an additional epistemic meaning that the speaker is uncertain as to the extent to which the generality expressed by the proposition holds.

  - (27) Felicity conditions of (26): Speaker S is committed to the following...
    - a. at least one house has a garden.
    - b. at least one house does not have a garden.
    - c. there is a house~garden pattern.
      - $\rightsquigarrow$  S cannot commit herself to a stronger statement.

The plot 0000	Properties of CGs	Two theories 0000	A new perspective	The Czech suffix va	Conclusion
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#### Summary

	Strong	Weak	va
Verifying instances	×	$\checkmark$	$\checkmark$
Obligatory exceptions	×	$\checkmark$	$\checkmark$
Positive counterinstances	×	$\checkmark$	$\checkmark$
Low frequency	×	$\checkmark$	$\checkmark$
Epistemic effect	×	$\checkmark$	$\checkmark$

## CONCLUSION

The plot 0000	Properties of CGs	Two theories 0000	A new perspective	The Czech suffix va	Conclusion •0000
Conclus	ion				

 ● There is *linguistic evidence* for two types of CGs. It's not just a matter of on-the-surface non-uniformity of CGs; it is genuinely reflected in the semantic properties of marked/unmarked generics.

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Conclu	sion				

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Conclu	sion				

- There is *linguistic evidence* for two types of CGs. It's not just a matter of on-the-surface non-uniformity of CGs; it is genuinely reflected in the semantic properties of marked/unmarked generics.
- O No unification for all CGs.

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Markady	(c. unmarka	forme			

• Formally unmarked generics in Czech (without the generic-va) are compatible with all types of CGs. So, why marked generics at all?

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Mark	od vs. unmark	od forme			

- Formally unmarked generics in Czech (without the generic-va) are compatible with all types of CGs. So, why marked generics at all?
- CGs like *birds fly* are a "mixed case" of kind reference in a CG-statement (Krifka 2001, Krifka 2009), it expresses a "double generalization".

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  - (28) The generically-predicated property FLY is understood as being true...
    - a. of the kind BIRD (on the basis of individual birds to which the property of flying is attributed), and
    - b. of individual birds (on the basis of particular situations of flying by a stage of an individual bird).

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    - a. of the kind BIRD (on the basis of individual birds to which the property of flying is attributed), and
    - b. of individual birds (on the basis of particular situations of flying by a stage of an individual bird).
- The formally **unmarked** Czech generic sentence *Ptáci létají* highlights (28a).
- The formally marked generic sentence Ptáci létávají conveys (28b).

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion ○○●○○
Other la	anquages				

- A number of languages have morphological devices available to signal CGs (often called "habituals"; Dahl 1995).
- Some examples (for more see Dahl 1995, 421).
  - ► Affixes on verbs: Swahili prefix *hu*-, Czech suffix -*va*-, West Greenlandic suffix -*sar*-/-*tar*-.
  - ► Reduplication of imperfective morphemes: Wolof.
  - ► Free forms in the verb's auxiliary cluster: Georgian particle *xolme*, Swedish auxiliary verb *bruka*.

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion ○○○●○
About G	an				

#### • Notice that:

- ▶ We have not said anything about the semantics of unmarked CGs.
- Not knowing the actual semantics of unmarked CGs greatly complicates any competition-based account of the epistemic effects of marked CGs.

The plot 0000	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion ○○○●○
About	Gon				

#### • Notice that:

- ▶ We have not said anything about the semantics of unmarked CGs.
- ► Not knowing the *actual* semantics of unmarked CGs greatly complicates any competition-based account of the epistemic effects of marked CGs.
- What is the relation of va (and similar markers) to GEN?
- Assuming all R&R generics involve GEN, it is clear that *va* cannot be GEN; rather, it behaves like a "vanilla" Q-adverb specifically tailored to express Weak Generalizations.

The plot	Properties of CGs	Two theories	A new perspective	The Czech suffix va	Conclusion
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## Thank you!

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