Bounded and Unbounded Adjectives

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- 1. Introduction
- adjectives can be gradable or nongradable. Some nongradable adjectives:
- (1) a. a (*very) daily newspaper
 - b. (*very) classical ballet
 - c. a (*very) pictorial atlas
- radable adjectives are associated with a scale of totally ordered degrees.
- gradable adjectives can be divided into **bounded** and **unbounded** adjectives (Barbiers 1995, Paradis 2001, Kennedy 2007, Kennedy & McNally 1999, 2005, Vanden Wyngaerd 2001, Wechsler 2005).
- (2) Bounded
 - a. The door is open/closed.
 - b. The rod is straight/bent.
 - c. The bottle is empty/full.
- (3) Unbounded
 - a. Max is tall/short.
 - b. The book is good/bad.
 - c. Cindy is happy/sad.
- different kinds of degree modifiers:
- (4) *Modifiers*
 - Bounded (proportional modifiers)
 completely/absolutely/almost/half/mostly
 - b. Unbounded very/terribly/fairly
- (5) *Adjectives*

a. Bounded: full, closed, invisibleb. Unbounded: long, expensive, old, good

Main claim: the distinction between bounded and unbounded adjectives is encyclopedic, rather than grammatical.

2. BOUNDEDNESS IS ENCYCLOPEDIC

2.1. Boundedness is in the object

- rather than belonging inherently to the adjective scale, (un)boundedness rather depends on the noun, or something related to the noun, that the adjective is predicated of.
- ➤ Barbiers (1995): nonverbal modal complements in Dutch only tolerate bounded adjectives.
- (6) a. De trossen mogenlos.

 The hawsers may loose

 'The hawsers may be loosened.'
 - b. De fles moet leeg.
 The bottle must empty
 "The bottle must be emptied."
 - c. Het raam kan open.The window can open'The window can be opened.'
- (7) a. *Het kantoor moet groot.

 The office must big

 'The office must be made big.'
 - b. *Die wagen kan snel/traag.
 That car can fast/slow
 'That car can drive fast/slow.'
 - c. *De storm mag hevig.

 The storm may heavy

 'The storm may be made heavy.'

> leeg 'empty'

- (8) a. The bottle is empty. → upper bound
 b. That story was very/terribly/fairly empty and hollow. → no upper bd
- (9) *Dat verhaal moet leeg. that story must empty

> los 'loose'

- (10) a. De trossen zijn los. → upper bound 'The hawsers are loose.'
 - b. Zijn stijl van presenteren is los. → no upper bound 'His presentation style is loose.'
- *?De stijl van presenteren voor dit programma moet los.The style of presenting for this show must loose.'The presentation style for this show has to be loose.'

- (12) a. De trossen zijn helemaal/*?erg los. The hawsers are completely/very loose.
 - b. De moraal is er erg/*helemaal los.The morals are there very/completely loose
- > the looseness scale does not have any inherent boundaries: boundedness is due to some physical property of the object the adjective is predicated of.
- > open 'open'
- (13) a. The window is completely/half/almost open.
 - b. *The window is very/terribly/fairly open. \rightarrow upper bound
- (14) a. a ?completely/*?half/??almost open attitude
 - b. a very/terribly/fairly open attitude \rightarrow no upper

bound

- (15) ?*Zijn houding moet open. His attitude must open.
- British National Corpus (BNC) "very open": 49 hits.
- (16) a. a very open person/process/view/weave texture/landscape/texture/intelligence/capital market system/mind
 - b. very open people/questions/gravel flushes
- > "almost open": 4 hits
- ➤ "half open": 35 hits
- (17) door, gate, mouth, eyes, lid, top, shirt, wings, flaps
- > Typically, the objects involved move in the way of a window, i.e. they are attached to a solid body by a joint and move along an axis that has a clear physical boundary. This is definitely not a syntactic property of these objects. It is not likely to be a semantic one either. Instead, I claim that it is an encyclopedic property.
- > "completely open": 21 hits
- (18) a completely open person/window/road/market/platform/mind/situation/way/product range
- (19) a. #The line is completely straight, but it could be straighter.
 - b. I'm completely uninterested in finances, but Bob is even less interested. (Kennedy & McNally 1999: n 1)
- > hard 'hard'
- (20) a. De cement is almost/half/completely hard. \rightarrow upper bound
 - b. Their attitude towards violent crime is very/terribly/fairly hard.

- (21) a. Voor we verder kunnen weken, moet de cement eerst hard. 'Before we can go on working, the cement must First be hard.'
 - b. *De houding van de politie moet hard.'The attitiude of the polive must be hard.
- > lang 'long'
- (22) a. een (*half)lange tafel. (M. De Belder, p.c.) 'a (half)long table'
 - b. een halflange roka half.long skirt'a mid-length skirt'
- *2.2. Quantity interpretations*
- (23) a. ??Milk is completely white. (Kennedy &McNally 2005:365) b. His suit was completely white.
- ➤ (23): all of the milk is white: odd, because milk has only one colour.

 All of the suit is white makes sense, because suit may have different parts in different colours. World knowledge is clearly involved here.
- interpretations as in (23b) are **quantity interpretations**: the bounded scale introduced by the noun is interpreted as a (bounded) quantity scale, with the proportional modifier indicating the quantity of the object over which the adjective is true.
- > examples ambiguous between a quality and a quantity reading (Kennedy & McNally 2005:366):
- (24) a. The meat is half cooked
 - b. The crops are partially frozen.
- quantity readings depend on encyclopaedic properties:
- (25) a. Het meisje is (*?half) stil. (M. De Belder, p.c.))
 The girl is (half) silent.
 - b. De zaal is half stil.the room is half quiet'Half of the room (i.e. audience) is quiet.'
- (26) a. *?Het meisje moet helemaal stil.

 'The girl must be completely silent.'
 - b. De zaal moet helemaal stil.'The room must be completely silent.'

- > note that adjectives like *stil* 'silent' are otherwise typical unbounded adjectives. If a quantity interpretation can be obtained, they can easily shift to the bounded class.
- > wet/dry (Kennedy & McNally 2005:371)
- (27) a. a very/fairly wet climate
 b. a half/completely wet towel/handkerchief
 → no upper bound
 → upper bound
- (28) a. This region of the country is very dry.
 - b. The glasses are completely dry.
- (29) a. #The towel is completely dry.
 - b. ??The glasses are completely wet.
- function or social convention plays a role: it is the purpose of a towel to become wet, and it is part of the usage conventions surrounding a glass that it is cleaned after use and dried before being stored.
- 3. Why does (Un) Boundedness play a role in Syntax?
- 3.1. How?
- ➤ Adjectival modifiers
- ➤ Nonverbal modal complements in Dutch
- Resultatives: Vanden Wyngaerd (2001) argues that predicates of resultative small clauses must denote bounded scales (see also Wechsler 2005).
- (30) a. Martin heeft zijn brommer *snel/kapot gesleuteld.

'Martin wrenched his moped fast/broken.'

- b. Frank heeft de ballon *groot/aan stukken geblazen. 'Frank blew the balloon big/to pieces.'
- c. Het drukke verkeer heeft de sporen *diep/plat gereden.

'Heavy traffic drove the tracks deep/flat.'

d. Van zong zich *slaperig/bewusteloos. 'Van sang himself sleepy/unconscious.'

Possible explanations:

(Un)boundedness is encyclopedic: no

➤ (Un)boundedness is syntactic: [±bounded]: no

➤ (Un)boundedness is LF-semantic no

➤ (Un)boundedness is Q-Semantic yes

3.2. Q-semantics

(31) Ontology of Quantities

	homogeneous/	quantized
	cumulative	
Nouns	mass	count
Verbs	atelic	telic
Adjectives	unbounded	bounded

Q-semantics wants coherent interpretations.

- (32) a. much ??dog/chicken
 - b. many books
- (33) a. Max knitted a sweater in three days/??for three days.
 - b. Max knitted sweaters ??in three days/for three days.
- ➤ Vanden Wyngaerd (2001): the resultative must be bounded because its function is aspectual, viz. to provide a measure for the verbal activity. An unbounded measure would be a contradiction in terms.

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