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How WIE 'how' as Intensifier Co-occurs with other Intensifiers in German Sentence

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In this paper we state that in exclamative sentences in German, sentence initial *wie* 'how' which is an instance of degree related adverbial wh-exclamatives (Nouwen and Chernilovskaya [7]), is an intensifier of gradable adjectives (see Rett [8] on degrees within exclamatives). In (1) *wie* 'how' intensifies the gradable adjective *cool*:

- (1) Wie cool ist das denn!
'how cool was that!'

Our second statement is that *wie* 'how' can co-occur with (gradable adjectival) intensifiers¹ of similar semantic properties, while it cannot with intensifiers with different properties which is exemplified in (2)a and 2(b), respectively. The words in italics in (2) are intensifiers of the gradable adjective *cool*. Note the *wie* does not intensify the bare adjective *cool* but an intensifier-adjective-complex such as *voll cool* 'totally cool':

- (2) a. Wie *unglaublich/übelst/voll* cool war das denn!!
'how incredibly/totally cool was that!'
b. *Wie *sehr/äußerst* cool war das denn!
'how very/extremely cool was that!'

Gutzmann and Turgay [3] distinguish between degree words in (2)b such as *sehr* 'very' and, in our interpretation, *äußerst* 'extremely' and expressive

¹(Morzycki [5]) states that sentences with (gradable) adjectival intensifiers are exclamatives as well. See (Nouwen [6]) on predicate status of adjectives in intensification.

intensifiers (=EI) in (2)a like *sau* 'totally, *voll* 'totally' and *übelst* 'totally' and argue that EI express a higher degree of intensifying than degree words.²

We start our analysis with the definition of adjectives. Following Seuren [9] adjectives are a binary relation between degrees and properties: x has a quality and this quality exceeds a degree d (see Kennedy and McNally [4]: Beck [1]). Carpenter [2] formalizes the combination of (gradable) adjectival predicates with intensifiers: Let P be a set of individuals, G a gradable (adjectival) predicate, then $Intensifier(G)(P)(y)$ holds iff $y \in P$ and there is a degree d such that $G(d)(y)$. That is to say, y has the property denoted by G to the degree d and only few elements $x \in P$, have the property denoted by G to the degree d , compared to the set of individuals P . The definition of intensifiers INT is given in (1):

$$(3) \quad INT \stackrel{def}{=} \lambda P. \lambda G. \lambda y. P(y) \wedge some(\lambda d. G(d)(y)) \wedge few(P)(\lambda x. G(d)(x))$$

The difference between types of intensifiers is represented by the predicate *few* which is a binary relation between the comparison set P and those $x \in P$ which have the quality denoted by G . The cardinality of the extension of the binary predicate *few* in (3) varies depending on the type of intensifiers. Let few_1 be the predicate of intensifiers such as *unglaublich*, few_2 the predicate of intensifiers such as *sehr* and few_3 the predicate of *wie*, and $x \neq y$ then (2) and (3) hold for a model M and a value assignment g (in (5) we use *few* as a shorthand notation for $[[[few(P)(\lambda x. G(d)(x))]]^{M,g}]$):

$$(4) \quad |[[few_x(P)(\lambda x. G(d)(x))]]^{M,g}| \neq |[[few_y(P)(\lambda x. G(d)(x))]]^{M,g}|$$

$$(5) \quad \Delta x = |[[few_1]]| - |[[few_3]]| \wedge \Delta y = |[[few_2]]| - |[[few_3]]| \wedge \Delta x < \Delta y$$

Six combinations are possible with few_1 , few_2 and few_3 , but just the combination of intensifiers with predicates few_1 (type *unglaublich* 'incredible') and few_3 (type *wie* 'how') yields grammaticality. We conclude that this is due to similar cardinalities of the denotations of few_1 and few_3 . In contrast, the cardinalities of the denotations of few_3 and few_2 (type *sehr*

²An additional discriminating property between degree words and EI is the former can be iterated while the latter cannot (Gutzmann and Turgay [3]): *das war sehr, sehr/äußerst, äußerst cool* 'that was very, very/extremely, extremely cool' vs. **das war unglaublich, unglaublich/sau, sau/voll,voll/übelst,übelst cool* 'that was incredible, incredible/totally,totally cool'

'very') and in addition of few_1 and few_2 ³ differ to the extent that the respective intensifiers cannot co-occur. The combinatorial restrictions indicate a graduality of intensifiers on a scale.

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³Intensifiers with predicates few_1 cannot combine with intensifiers with few_2 , witness for instance **das ist sehr unglaublich cool* 'that is very incredible cool'