1 Equatives in English

- (1) a. Anna is **as** tall / intelligent **as** Berta. b. Anna's dress is **like** Berta's.
 - c. Anna is runs like Berta runs..
- d. Anna cooked **as much** soup as Berta did.⁴
- e. Anna ran **as much** as Berta did.
- f. Anna is tall, like Berta. (coordination)

	English	adjectival	nominal	verbal
	scalar	as – as	as much as	as much as
	non-scalar	like	like	like
4 see Solt (2015), Wellwood (2015)		coordination lik	(e	

2 Equatives in German

b.	Anna ist so groß / intelligent wie Berta. Annas Kleid ist so wie Bertas. Anna rennt so wie Berta.	(=1a) (=1b) (=1c)
	Anna kochte so viel Suppe wie Berta. Anna rannte so viel wie Berta.	(=1d) (=1e)
f.	Anna ist so ein Fußballfan wie Berta. 'Anna is as much of a football fan as Berta is.'	(rare)
g.	Anna rannte so wie Berta. 'Anna ran as fast as Berta did.'	(rare)
h.	Anna ist groß, wie Berta. (coordination)	(=1f)

German	adjectival	nominal	verbal
scalar	so – wie	so – wie	so – wie
non-scalar	wie	so – wie	so – wie

coordination wie

3 Equatives in Turkish

(3) a. Anna Berta kadar zeki. B. kadar intelligent.Cop3sg `Anna is as intelligent as Berta.'

(same degree of intelligence)

b. Anna Berta **gibi** zeki. A. B. gibi intelligentCop3sg `Anna is intelligent like Berta.'

(similar in the way of being intelligent)

(4) a. Anna'nın elbisesi Berta'nın-ki kadar. A.-Gen dress.Poss3sg B.-Gen-Rel kadar.Cop.3sg `Anna's dress is as _____ as Berta's.'

(e.g., same length or price)

b. Anna'nın elbisesi Berta'nın-ki **gibi**. A.-Gen skirt.Poss3sg B.-Gen-Rel gibi.Cop.3sg `Anna's dress is like Berta's.'

(e.g., similar w.r.t. design & color & fabric)

(5) a. Anna Berta kadar koşuyor. A. B. kadar run.3sg.Prog `Anna runs as _____ as Berta.' (e.g. duration or frequency or performance)

b. Anna Berta **gibi** koşuyor. A. B. gibi run.3sg.Prog `Anna runs like Berta.'

(e.g.similar w.r.t. style, with extra weights, bare-foot)

Turkish	adjectival	nominal	verbal
scalar	kadar	kadar	kadar
non-scalar	gibi	gibi	gibi

coordination gibi

Scalar and non-scalar equatives in Turkish across categories

4 Findings		6 <i>kadar</i> + N/V vs. <i>gibi</i> + N/V
 Turkish equatives occur with two <i>kadar</i> and <i>gibi</i> occur with adjee 	ctives, nouns and verbs; rtly explicit dimension of comparison it dimensions of comparison (mostly metrical) dimension; a number of dimensions	 kadar equatives: licit dimensions (11) Anna'nın kızı Berta'nın-ki kadar. AGen daughter.Poss3sg Berta-Gen-Rel kadar.Cop.3sg 'Anna's daughter is as as Berta's.' child: age, height, weight (fon NOT smartness, intellige house: size, price NOT age, state of repart clothing: size, price, NOT age, state of repart clothing: size, price, NOT style, evaluation (even though A B dress kadar güzel 'between though A B dress kadar guzel 'between though A B dress kadar guzel'between though A B dress kadar guzel'between though A B dress
		(12) Anna Berta kadar dans ediyor.
 5 kadar + A vs. gibi + A > kadar equatives: same degree; gi (6) A. B. kadar zeki ('intelligent') uzun ('tall') yaşlı ('old') pahalı ('expensive') güzel ('beautiful') (7) A. B. gibi zeki. ('intelligent') ?? uzun ('tall') ?? yaşlı ('old') ? pahalı (expensive') güzel ('beautiful') > gibi, but not kadar, is compatible (8) Anna Berta gibi mezun. /*kada 'Anna is graduated like Berta' 	same degree of intelligence same height same age ! Normbezug same price same degree of beauty ways of being intelligent e.g., analytical skills, readiness of mind, emotional intelligence, linguistic talent; (ways of being tall?) (ways of being tall?) (ways of having a certain age?) (ways of being expensive?) ways of being beautiful	 A. B. kadar dance.3sg.Prog 'Anna dances as as Berta.' dance: duration or frequency NOT ambition, agility, or run: ability, distance, runnin NOT style, manner sleep: duration, NOT manner <i>kadar</i> equatives: one dimension only (4a) can mean `Anna's dress is as long as Berta's.' or 'Annexpensive as Berta's, but NOT: 'Anna's dress is as long as Berta's.' or 'Annexpensive as Berta's, but NOT: 'Anna's dress is as long a as Berta's.' <i>gibi</i> equatives: multi-dimensional (4b) can mean `Anna's dress is similar to Berta's w.r.t. destand fabric etc. modification by "from many angles" o.k.: (13) <i>Anna'nın elbisesi birçok yönden Berta'nınki gibi</i>. A.Gen dress.Poss.3sg many way.Abl B.Gen.Rel gibi 'Anna's dress is like Berta's in many ways.' <i>gibi</i> equatives: licit dimensions ways of appearance / ways of doing something
kadar as well as gibi equatives er	atail Normbezug	general restrictions?
(9) Anna Berta kadar / gibi zeki. `Anna is as intelligent as Berta / inte		→ restrictions for German (König & Umbach 2017, Umbach & Stolterfoht i
==> both Anna and Berta		References
 gibi blocks degree modifiers, which are o.k. with kadar; (10) a. Anna en az Berta kadar uzun / zeki / güzel. 'Anna is at least as tall / intelligent / beautiful as Berta.' *Anna en az Berta gibi zeki / güzel. intended 'Anna is at least tall / intelligent / beautiful like Berta.' (sentence adverb reading o.k.) 		 Anderson, C. & M. Morzycki (2015) Degrees as kinds. NLLT 33:79 -821. Bierwisch, M. (1987) Semantik der Graduierung. In M. Bierwisch & E. Lang (eds.) Gramma konzeptuelle Aspekte von Dimensionsadjektiven. Akademie Verlag Berlin, 91-286. Kennedy, C. (1999) Projecting the Adjective. Garland Press, New York. König, E. & C. Umbach (2017) Demonstratives of Manner, of Quality and of Degree: A Neg Coniglio, A. Murphy, E. Schlachter & T. Veenstra (eds.). Atypical demonstratives: syntax pragmatics. Berlin, de Gruyter Mouton. Gust, H. & C. Umbach (2015) Making use of similarity in referential semantics. In H. Christ G. Papadopoulos (eds.) Proceedings Context 2015, LNCS Springer. Solt, S. (2015) Q-Adjectives and the Semantics of Quantity. Journal of Semantics 32 221 -2 Umbach, C. & H. Gust (2014) Similarity Demonstratives. Lingua 149. 74-93. Umbach, C. & B. Stolterfoht (in prep.) Ad-hoc kind formation by similarity. Wellwood, A. (2015) On the semantics of comparison across categories. L&P 38:67-101

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dar + N/V vs. gibi + N/V		7	7 Semantic	interpretation	
	<i>i kadar.</i> ta-Gen-Rel kadar.Cop.3sg _ as Berta's.' age, height, weight (for babies) NOT smartness, intelligence, speed	5	Measure f 1- dim	unctions $[[uzun]] = \lambda x . \mu_{height}$ $[[Meas]] = \lambda x . \mu_{s} (x)$ underspecified measured by the type of x $[[genMeas]] = \lambda x . \mu_{sn}$ generalized measure Sn: variable over n-di	<pre><e,d> ure function, nsions, nominal/verbal (x) <e, d<sup="">n> function,</e,></e,d></pre>
 Anna Berta kadar dans e A. B. kadar dance.3sg.Prog `Anna dances as as dance 	Berta.' : duration or frequency or talent NOT ambition, agility, concentration	>	Interpretat	d ⁿ : points in n-dimen μ _{sn} constrained by the type of x tion	
run: sleep:	ability, distance, running time, speed NOT style, manner duration, NOT manner		[[kadar]]	weak linear order, e.g (dimension at least or	
dar equatives: one dimension only a) can mean `Anna's dress is as long as Berta's.' or 'Anna's dress is as bensive as Berta's, but NOT: 'Anna's dress is as long and expensive			[[<i>gibi</i>]]	similarity relation defi spaces (see Umbach &	
Berta's .'			[[A. B. <i>kad</i>	$[ar \alpha]] = \mu_{\alpha}(a') \ge \mu_{\alpha}(b')$	where μ_{α} is an a specified 1-dim
d fabric etc. odification by "from many ar 3) Anna'nın elbisesi birçok	similar to Berta's w.r.t. design and color ngles" o.k.: yönden Berta'nınki gibi.		[[A. B. <i>gibi</i>	δ]] = μ _δ (a') ≈ _F μ _δ (b')	where μ _δ is a ge function and ≈ _F indistinguishab attribute space
A.Gen dress.Poss.3sg many v 'Anna's dress is like Berta's in		٤	3 Conclusio	n	
general restrictions?	ays of doing something ??? an (König & Umbach 2017, chap. 5, Umbach & Stolterfoht in prep)		1999) focu Similarity- Morzycki 2	sed analyses of compan is on scalar comparison based (Umbach & Gust 2015) analyses account ktra efforts when dealin	, but cannot hand 2014) and kind-k for non-scalar co
ences			Featuring	complementary strengt	hs. the two types
eptuelle Aspekte von Dimensionsadjektive y, C. (1999) Projecting the Adjective. Garlan & C. Umbach (2017) Demonstratives of M glio, A. Murphy, E. Schlachter & T. Veenstra matics. Berlin, de Gruyter Mouton. & C. Umbach (2015) Making use of similar padopoulos (eds.) Proceedings Context 20	M. Bierwisch & E. Lang (eds.) Grammatische und n. Akademie Verlag Berlin, 91-286. nd Press, New York. Manner, of Quality and of Degree: A Neglected Subclass. In M. (eds.). Atypical demonstratives: syntax, semantics and rity in referential semantics. In H. Christiansen, I. Stojanovic,	5	 offer a cho In view of same lange compariso 	bice between competing the Turkish data we hav uage – two different str n are manifest.	g theories. ve to acknowledg ategies of perfor

Kennedy (1999) Solt (2015)

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similarity relation defined on n-dimensional attribute spaces (see Umbach & Gust 2014, Gust & Umbach 2015)

$[\alpha r \alpha]] = \mu_{\alpha}(a') \ge \mu_{\alpha}(b')$	where μ_{α} is an adjectival or underspecified 1-dim measure function
δ]] = μ _δ (a') ≈ _F μ _δ (b')	where μ _δ is a generalized measure function and ≈ _F denotes indistinguishability / similarity in the attribute space F

sed analyses of comparison (e.g., Bierwisch 1987, Kennedy s on scalar comparison, but cannot handle non-scalar cases.

based (Umbach & Gust 2014) and kind-based (Anderson & 015) analyses account for non-scalar comparison, but have tra efforts when dealing with scalar cases.

complementary strengths, the two types of analyses seem to ice between competing theories.

he Turkish data we have to acknowledge that – within the lage – two different strategies of performing equative n are manifest.

tic framework in Umbach and Gust (2014) is well suited to account for both strategies (without reducing one to the other).