

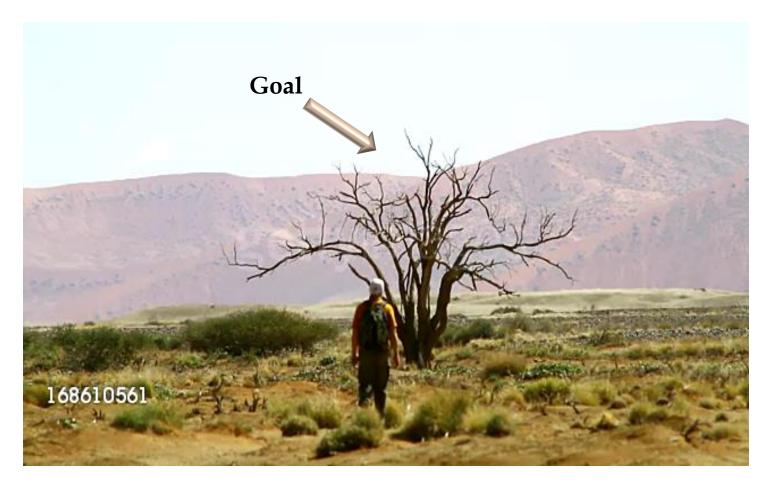
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Typological differences and their ramifications for motion encoding: comparing German to English and Greek

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Goal of motion: "the entity or place towards which something moves" (Crystal 2008).



C http://www.gettyimages.com/detail/video/man-walking-towards-solo-tree-in-barren-landscape-stock-video-footage/168610561



Goal of motion:

- The (potential) final point of motion
 - Instances in which the figure finally **reaches** this point.
 - Instances in which the figure simply heads **towards** it. (see, e.g., von Stutterheim et al., 2009)



Outline

- 1. Introduction
- 2. Lexicalisation patterns
 - Satellite-framed *vs*. Verb-framed languages
 - Goal preference across languages: The effect of the lexicalization pattern
- 3. Aspect vs. non-aspect languages
 - Goal preference across languages: The effect of grammatical aspect
- 4. The present study:
 - Verbalization study
 - Focus on English, German, Greek
 - Findings based on different categorisations of the stimuli
- 5. Conclusion

*Based on: Georgakopoulos, Härtl & Sioupi (2018); Georgakopoulos & Härtl, submitted



There are two main streams of research dealing with goals of motion:

- The first one addressing the so-called source-goal asymmetry or goal-bias hypothesis:
 - Goals and sources of motion behave asymmetrically;
 - A clear preference for the endpoint of motion is reported

(see, among others, Ikegami, 1987; Landau & Zukowski, 2003; Stefanowitsch & Rohde, 2004; Lakusta & Landau, 2005; Gehrke, 2008; Papafragou, 2010; Georgakopoulos & Sioupi, 2015; Lakusta & DiFabrizio 2016; Luraghi et al. 2017; Georgakopoulos, 2018).

• The second one viewing goal preference in motion events as a reflector of cross-linguistic differences.





The background:

Two distinct factors have been reported to determine goal preference:

• The cross-linguistic differences in lexicalization patterns of motion events

(see Slobin, 1996; Georgakopoulos & Sioupi, 2015)

• The presence of grammatical viewpoint aspect encoding (Athanasopoulos & Bylund, 2013; Bylund, 2009; Schmiedtová, von Stutterheim, & Carroll, 2011; von Stutterheim & Nüse, 2003; Stutterheim, Bouhaous, & Carroll 2017)







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Table 1. Properties of the languages under investigation

		Language			
		English German Greek		Greek	
	Grammatical aspect	Yes	No	Yes	
Property	Lexicalization pattern	Satellite-framed	Satellite-framed	Verb-framed	

Lexicalisation pattern: S-framed vs. V-framed

- Languages that express the path in the verb (map the core schema of the event onto the verb): verb-framed languages.
- Languages that express the path out of the verb via "satellites": satellite-framed languages. (Talmy, 1985; 2000)

- Satellites are defined as "certain immediate constituents of a verb root other than inflections, auxiliaries, or nominal arguments". (Talmy, 1985: 102)
 - "The Satellite is thus intended to encompass all of the following grammatical forms: English verb particles, German separable and inseparable verb prefixes, Latin or Russian verb prefixes, [...]."
 (Talmy, 2000: 222; cf. Beavers et al., 2010, Goschler et al., 2013, who include also PPs)





Path: in the







The dog *ran* into the house.



SATELLITE-FRAMED PATTERN: \rightarrow path encoded in a satellite

Der Hund *lief* ins Zimmer hinein.



SATELLITE-FRAMED PATTERN: \rightarrow path encoded in a satellite



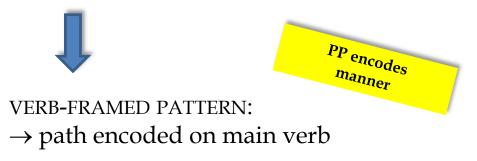


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O skílos **bíke** sto δomátio *tréhodas*. 'The dog entered the house by running.'



Le chien est entré dans la maison *en courant*. 'The dog entered the house by running.'



• In motion events, when the PP is optional (e.g. *They fell in the water*), a V-framed language omits the PP more frequently than a S-framed language

(Slobin, 1996: 199–201)

• Similar differences were reproduced in non-prototypical motion events, such as CHANGE OF POSSESSION EVENTS

(Georgakopoulos & Sioupi, 2015)

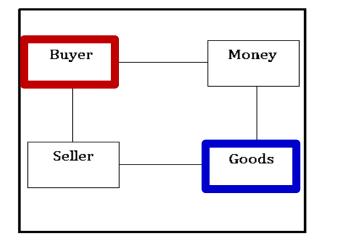
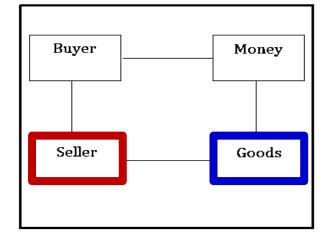


Fig. a. The profiled attributes (in bold) of BUY in the COMMERCIAL EVENT frame



Lexical units of the COMMERCIAL EVENT FRAME: **BUY, SELL** (cf. Fillmore, 1982 [2006]: 378)

Fig. b. The profiled attributes (in bold) of SELL in the COMMERCIAL EVENT frame



German

Thing (Theme) Buyer/ Seller

- (1) Aus Verzweiflung verkaufte schon jede zweite Frau ihr Baby.
 from desperation sell:3SG.PAST already each second woman her baby
 'Every second woman sold her baby out of desperation'. [HMP12]
- (2) Schon mit 19 Jahren kaufte sie ihr erstes Kunstwerk.
 Already with 19 years buy:3SG.PAST she her first work of art
 'When she turned 19 (years old), she bought her first work of art'. [HMP08]

Greek

- (3) O proeðros θa pulisi tin omaða to Δekemvrio.
 the President FUT.PART sell:3SG.PFV.NONPAST the team:ACC the December:ACC
 'The President will sell the team in December'. [WOPG18-0378]
- (4) O pelatis θeli na aγorasi ena cd musikis.
 the customer:NOM wants SUBJ buy:2SG.PFV.NONPAST a cd music:GEN
 'The customer wants to buy a CD'. [WRPG16-9284]



Thing (Theme) Buyer/ Seller Optional element

German

- (5) Die Firma verkaufte in den Folgejahren Rechner an Universitäten. the company sell:3SG.PAST in the following.years computers to universities 'In the following years, the Company sold computers to the Universities'. [SPK]
- (6) ErkaufteBeruhigungspillenvoneinemJunkie.hebuy:3SG.PASTsedative pillsfromINDEF.DATjunkie'He bought sedative pills from a junkie'.

BUY and SELL can explicitly express an optional element



Thing (Theme) Buyer/ Seller Optional element

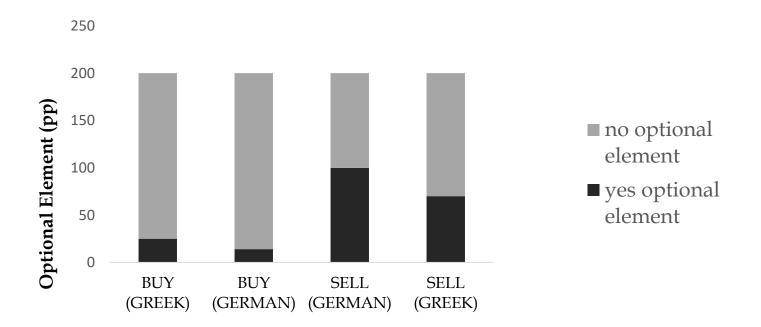
Greek

(7) Os	to	etos 1974	pulisa	ke	ta	6 ðiamerismata
until	tł	ne year 1974	sell:3SG.PFV.PAST	and	the	6 apartments
se	6	ðiaforetikus	ayorastes.			
to	6	different	buyers			
'By 1974, I had sold all 6 apartments to 6 different buyers'. [WRPG17-1791]						

(8) Sintoma apektise ke ðeftero plio pu to soon acquire:3SG.PFV and second ship that CL.ACC.3SG.N
 aγorase apo tin eteria Evγeviði.
 buy:3SG.PFV.PAST from the company:ACC Eugenides'
 'He soon had a second ship which he bought from the Eugenides company'.
 [WRPG17-2380]

BUY and SELL can explicitly express an optional element

Q: Does the typological difference between German and Greek affect some aspects of the bias toward the expression of the Goal?



- The optional PP is explicitly expressed more often in German than in Greek.
- The critical factor for the observed difference is the goal optional element in German
 - \Rightarrow German shows a more robust goal bias compared to Greek.

Grammaticalized aspect

- Aspects are different ways of viewing the internal structure of a situation (cf. Comrie, 1976)
- Perfective aspect: a situation is viewed as a single whole or from outside
 Imperfective aspect: describes situations from within, focusing on their internal structure

(see Comrie, 1976: 24; Herweg, 1990; Lübbe & Rapp, 2011)





An apple fell from the tree.

An apple is falling from the tree.

(see Herweg, 1990; also Stutterheim, et al., 2012; Klein, 1994; Krause, 2002)



- This contrast is:
 - either grammaticized in the language (e.g. English, Greek, and Spanish)
 - or realized periphrastically
- The imperfective aspect in **German** is expressed by means of verbal periphrases, like *am/beim*, *dabei sein zu* + *inf* as well as with the adverb *gerade* (cf. 9–11):

(9) Ich bin *am/beim* Lesen.

(10) Als Peter ankam, *war* Hans *dabei*, einen Roman *zu lesen*.

(11) Als Peter ankam, las Hans *gerade* einen Roman.

• In **Greek**: Grammatical viewpoint aspect is morphologically encoded in verb forms, which are morphologically either imperfective or perfective, and in all tenses

(see Moser, 1994; Holton et al. 1997; Horrocks & Stavrou, 2007)

- This contrast is:
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 - or realized periphrastically

	Language			
	English	German	Greek	
Imperfective	no	no	yes	
Perfective	no/yes	no	yes	
Progressive	yes	no	no	

Table 2. Aspect systems in English, German and Greek

A variety of studies argue that:

- There is a relationship between aspect and language-specific behavior in the domain of goals of motion in language production
- Speakers of non-aspect languages are more prone to encoding event endpoints than are speakers of aspect languages



(Athanasopoulos & Bylund, 2013; Bylund, 2009; Schmiedtová, von Stutterheim, & Carroll, 2011; von Stutterheim & Nüse, 2003; Stutterheim, Bouhaous, & Carroll, 2017)



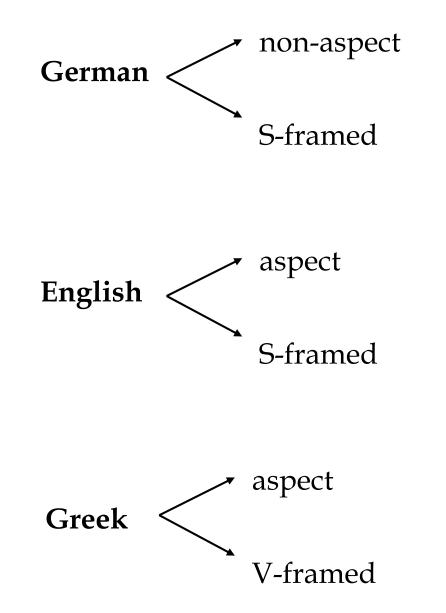
A variety of studies argue that:

- English speakers focus on the progression of an event and mention a possible endpoint rarely ('phasal decomposition')
 E.g.: A car is driving along the road
- German speakers conceptualize an event through a 'holistic' perspective, including a possible endpoint
 - E.g.: *Ein Auto fährt zu einem Dorf* 'a car drives to a village'



(see Stutterheim, et al. 2012 among others)





The present study: hypothesis



• Assuming that (i) lexicalization pattern and (ii) grammatical viewpoint affect the realization of goals, we can expect an interdependency of the two factors to occur in processes related to event conceptualization

Two possibilities:

The present study: hypothesis

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Two possibilities:

(a) additive effect of the two factors:

*H*_{1*a*}: Goals will be more frequent in German than in English and in Greek

H1b: Goals will be more frequent in English than in Greek

German (non-aspect, S-framed)

English (aspect, S-framed)

Greek (aspect, V-framed)



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Two possibilities:

(a) additive effect of the two factors:

German (non-aspect, S-framed)

*H*_{1*a*}: Goals will be more frequent in German than in English and in Greek

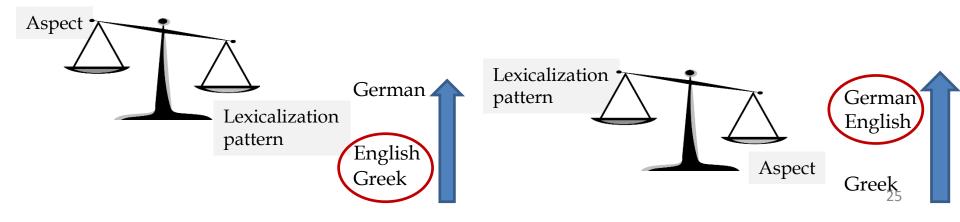
H1b: Goals will be more frequent in English than in Greek

(aspect, S-framed)

English

Greek (aspect, V-framed)

(b) different weight of each factor



Participants:

- 20 Native speakers of English (University of Westminster, London; UK)
- 20 Native speakers of German (University of Kassel; Germany)
- 20 Native speakers of Greek (University of Athens; Greece)

- All participants were students and postgraduates
- Age: between 18 and 30
- Gender: balanced

Verbalization study - Method

- The stimuli used in the study were 40 real-world video clips created by the research team of Schmiedtová, von Stutterheim and Carroll at the University of Heidelberg.
 - We present our findings based on two different distinction of the stimuli material:
 - A bipartite distinction (see Georgakopoulos, Härtl & Sioupi 2018)
 - Goal not reached condition
 - Goal reached condition
 - A **tripartite** distinction (see Georgakopoulos & Härtl, *under review*)
 - Goal not reached condition A
 - Goal not reached condition B
 - Goal reached condition

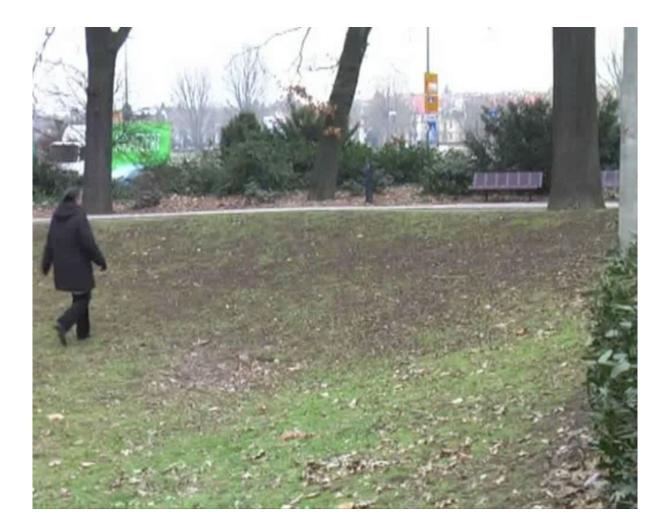
Verbalization study – Method – Bipartite

- The stimuli used in the study were 40 real-world video clips created by the research team of Schmiedtová, von Stutterheim and Carroll at the University of Heidelberg.
- The clips were depicting different event types:
 - a) Ongoing motion events, where the Goal is not reached (**10 items; Goal not reached condition [Condition A]**)
 - b) Goal-oriented motion events, where the moving entity actually reaches the endpoint (**10 items; Goal reached condition [Condition B]**)
 - c) A simple action that did not involve the movement of an entity along a trajectory (e.g., a person wrapping a present) were used as fillers (20 items; fillers)
- Two versions of each condition were created, which contained 20 video clips (presented in a pseudorandomized order)

Verbalization study – Method – Bipartite

- In the **Goal not reached group**, participants were asked to describe the event shown **right after the beginning** of each video.
- The exact wording in the important part of the English instruction:
 - We kindly ask you to briefly describe the shown event right after the beginning of each video
- In the **Goal reached group**, participants were asked to briefly describe **the events they were about to watch**
- The exact wording in the important part of the English instruction:
 - We kindly ask you to briefly describe the shown event right after each video











GNR

(12)EineFrauläuftüberGras.GRINDEF.NOMwomanwalk.3SGovergrass:ACC'A woman is walking across the grass'.

- (13)EineFrauläuftdurcheinenParkzueinerBank.INDEF.NOMwomanwalk:3SGthroughINDEF.ACCparktoINDEF.DATbench'A woman is walking through a park to a bench'.
- (14)EinManngehtineineKirche.INDEF.NOMmango:3SGinINDEF.ACCchurch:ACC'A man is walking into a church'.

- (15) There is an older looking lady walking through a park towards a bench.
- (16) A man walking in a park.
- (17) A man walking into a church.

GNR=Goal not reached condition GR=Goal reached condition 32





GNR GR

(18) Mia γineka aneveni enan lofisko.
A woman climb.up:3SG a hill:ACC.SG
'A woman is walking up a hill'.

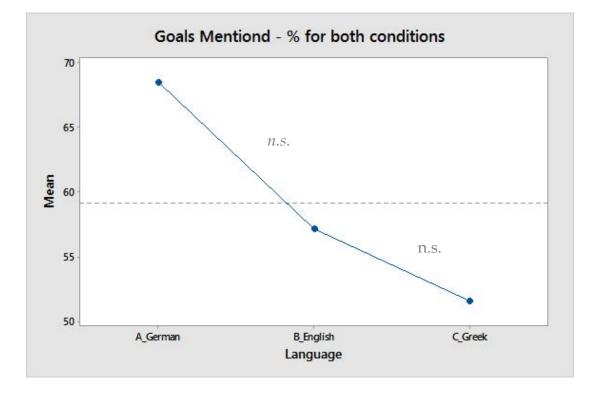
(19) Enas nearos beni se mia eklisia
 a young.man enter:3SG at a church:ACC
 'A young man is walking into a church'.

GNR=Goal not reached condition GR=Goal reached condition 33

Verbalization study – Results – Bipartite



• Main effect for language

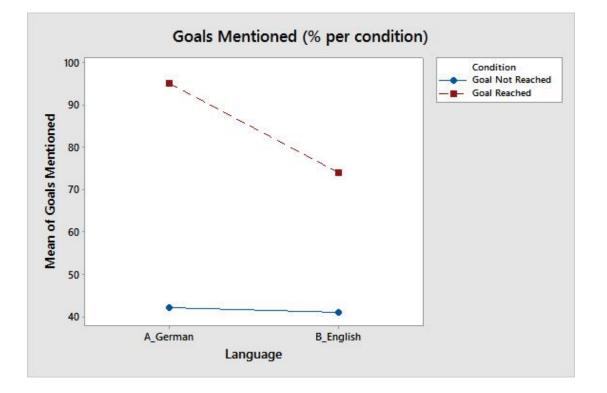


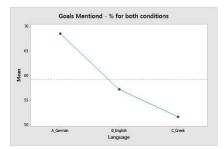
 $N_{total}=586$

German<*N*=134> – Greek<*N*=99>: t(1)=3.19, *p* < .005 German<*N*=134> – English <*N*=108>: t(1)=2.11, *p* = .08, *n.s.* English<*N*=108> – Greek<*N*=99>: t(1)=1.08, *p* = .52, *n.s*

Verbalization study – Results – Bipartite

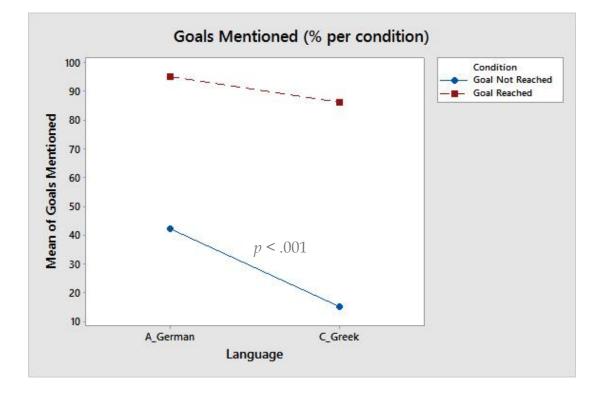
• Breaking down the effect:





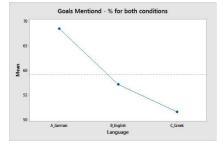
Verbalization study – Results – Bipartite

• Breaking down the effect:



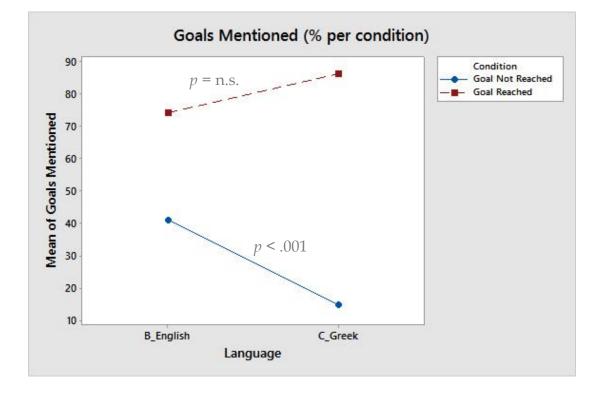
Goal not Reached

German<*N*=42> – Greek<*N*=13>: *t*(19) = 4.82, *p* < .001



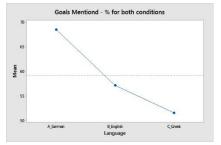


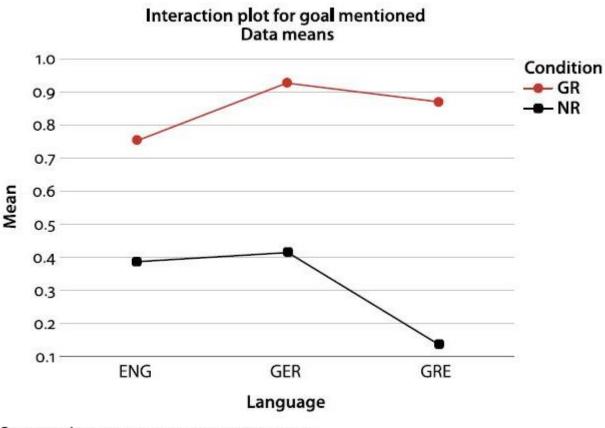
• Breaking down the effect:



Goal not Reached

English<N=39> – Greek<N=13>:t(19) = 4.82, p < .001

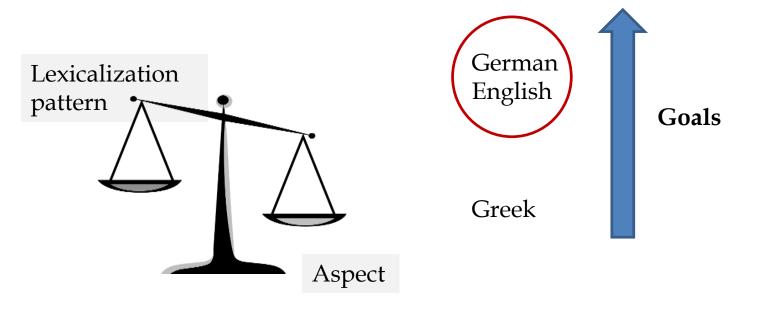




Interaction LANGUAGE × CONDITION

Language*Condition: *F*(2, 59) = 9.8, *p* < .001





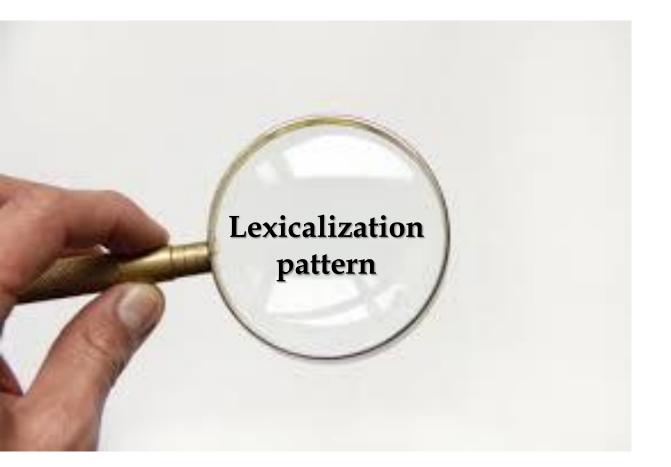






Table 3. Types of Verbs Used in Greek

Manner	Path
kavalao 'ride'	<i>proχoro</i> 'advance'
ipevo 'ride'	<i>katefθinome</i> 'head-for'
oðiγo 'drive'	iserxome 'enter'
perpato 'walk'	pao 'go'
strivo 'turn'	ðiasxizo 'cross'
<i>tre</i> χo 'run'	kinume 'move'
parkaro 'park'	perno 'pass'
periferomai 'roam-around'	beno 'enter'
<i>peritriγirizo</i> 'move around	aneveno 'ascend'
vaðizo 'walk'	perno 'pass'
	<i>vγeno</i> 'exit'

Table 4. Types of Verbs Used in German

Manner	Path
<i>fahren</i> 'drive'	betreten 'enter'
laufen 'walk'	
gehen 'go'	
spazieren 'walk'	
wandern 'wander'	
steigen 'steigen'	

Table 5. Types of Verbs Used in English

Manner	Path
walk	enter
drive	head
hurry	leave
ride	return
run	
toddle	
rush	
turn	
park	



Table 6. List of Adpositions Accompanying the Motion Verbs of the Study

Language			
German	Greek	English	
in NP 'into NP'	pros NP 'towards NP'	to	
auf NP 'to NP'	se NP 'at/to NP'	towards	
in Richtung <i>NP</i> 'towards NP'	mesa se <i>NP</i> 'in + at/to NP'	into	
zu NP 'towards NP'			



*Given the findings in Georgakopoulos, Härtl & Sioupi (2018)

Verbalization study – Method – Tripartite



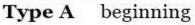
- The clips were depicting different event types (von Stutterheim, Bouhaous, and Carroll 2017)
 - Type A: events that show a figure 'moving along a short trajectory [...] towards a highly evident goal point marked by an object
 - Type B: and events in which a figure moves 'along an extended trajectory with a potential, but not an evident goal point
 - Type C: Goal reached condition

Verbalization study – Method – Tripartite



• The clips were depicting different event types (von Stutterheim, Bouhaous, and Carroll 2017)







intermediate



final



Type B beginning



intermediate



final



Type C beginning



intermediate





Table 7a. Mentions of Endpoints for Greek and German per Motion Event (Type A)

Motion events	Situation type	Valid	Greek Goal	German Goal
Woman towards church	Type A	10	2	2
Woman towards stop	Type A	10	0	9
Woman towards booth	Type A	9/10 GER	4	8
Woman towards bench	Туре А	10	0	6
Man towards car	Туре А	10	1	6
Man towards building	Туре А	10	5	6



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Motion events	Situation type	Valid	Greek Goal	German Goal
Woman towards church	Type A	10	2	2
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Woman towards booth	Type A	9/10 GER	4	8
Woman towards bench	Type A	10	0	6
Man towards car	Туре А	10	1	6
Man towards building	Туре А	10	5	6



Table 7b. Mentions of Endpoints for Greek and German per Motion Event (Type B)

Motion events	Situation type	Valid	Greek Goal	German Goal
Car towards village	Туре В	7/10 GR	0	2
Car towards church	Туре В	9/10 GR	0	1
Couple towards village	Туре В	10	0	1
Bus towards village	Туре В	7/10 GR	0	1



Table 7c. Mentions of Endpoints for Greek and German per Motion Event (Type C)

Motion events	Situation type	Valid	Greek Goal	German Goal
Man into church	Type C	10	9	9
Horse into stall	Type C	10	9	10
Car into garage	Type C	10	9	10
Van into yard	Type C	10	10	9
Kid into playground	Type C	10	9	10
Cat into room	Type C	10	5	9
Woman into shop	Type C	10	9	9
Woman into station	Type C	10	8	9
Horseman into stall	Type C	10	8	8
Dog into house	Type C	10	10	9

Situation Type	Greek	German
Type A	12	42
Туре В	0	5
Type C	86	92

- Georgakopoulos, Härtl & Sioupi (2018): the difference between German and Greek could be attributed to the different lexicalization patterns
- An addition: the realization of Goals in motion event descriptions is sensitive to the salience of the goal point towards which the motion is targeted.



Situation Type	Greek	German
Type A	12	42
Туре В	0	5
Type C	86	92



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Type C	86	92



Situation Type	Greek	German
Type A	12	42
Туре В	0	5
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German speakers:

• Mainly: **S-framed** constructions

(20) Ein Auto fährt in eine Garage ('A car is driving into a garage')

• Marginally: **V-framed** strategies

(21) Ein Mann betritt eine Kirche ('A man is entering a church.')

• Marginally: **bare manner verbs**

(22) Ein älteres Ehepaar wandert ('An old couple wanders')



Greek speakers:

(a) bare manner verbs

(23) Mia γineka perpatai

A woman walk:PRS.3SG

'A woman is walking.'



Greek speakers:

(b) Manner verbs + relators that express general localization

(24) Mia γineka perpatai se ena ðromoA woman walk:PRS.3SG at/to a road

'A woman is walking on a road.'



Greek speakers:

(c) Manner verbs + dynamic relators denoting the Goal

(25) Vlepo mia γineka na perpataei pros ena tilefoniko θalamo
See:PRS.1SG a woman that walk:PRS.3SG to a phone booth
'I see a woman walking towards a phone booth'



Greek speakers:

(d) Paths verbs without any relators

(26) O kirios aneveni tis skales
The man ascend:PRS.3SG the stairs
'The man is climbing up the stairs'



Greek speakers:

(e) Path verbs with relators that express general localization

(27) Enas anðras proxorai sto ðromo
A man ascend:PRS.3SG at/to the road

'A man is moving on a road'



Greek speakers:

(f) Path verbs with dynamic relators denoting the Goal

(28) Mia kiria pu katefθinete pros ena spitiA woman that head:PRS.3SG towards a house

'A woman that is heading towards a house'



Greek speakers:

(g) A main path verb + another path verb as a subordinate element

Eðo ine enas kirios o opios ti skala (29)aneveni Here is ascend:PRS.3SG the stairs who a man bi se ena ktirio yia na in order at/to a building enter:PRS.SUBJ.3SG

'There is a man climbing up the stairs to enter a building'



Table 9. Proportion of [MP] vs. [M] vs. [P] vs. [M/P] descriptions for Greek and German

Language	Category					
	Р	Μ	MP	M/P	Ø	
German	6 (3%)	8 (4%)	180 (91%)	1 (0.5%)	3 (1.5%)	
Greek	96 (48%)	70 (35%)	12 (6%)	11 (5.5%)	11 (25.5%)	

*Does the description include:

- Only the manner of motion (M)
- Only the path (P)
- Both manner and path in a single clause (MP)
- Both manner and path in more than one clauses which were either juxtaposed or coordinated (M/P);
- Some other information not related to a motion event (Ø)



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- Only the path (P)
- Both manner and path in a single clause (MP)
- Both manner and path in more than one clauses which were either juxtaposed or coordinated (M/P);
- Some other information not related to a motion event (Ø)



Table 9. Proportion of [MP] vs. [M] vs. [P] vs. [M/P] descriptions for Greek and German

Language	Category					
	Р	Μ	MP	M/P	Ø	
German	6 (3%)	8 (4%)	180 (91%)	1 (0.5%)	3 (1.5%)	
Greek	96 (48%)	70 (35%)	12 (6%)	11 (5.5%)	11 (25.5%)	

• Greek speakers tend to produce either path-only or manner-only sentences (*N*gr=166 vs. *N*ger=14, χ 2(1) = 231.6 p < .001)



Table 9. Proportion of [MP] vs. [M] vs. [P] vs. [M/P] descriptions for Greek and German

Language	Category					
	Р	М	MP	M/P	Ø	
German	6 (3%)	8 (4%)	180 (91%)	1 (0.5%)	3 (1.5%)	
Greek	96 (48%)	70 (35%)	12 (6%)	11 (5.5%)	11 (25.5%)	

- Greek speakers: when they express both manner and path:
 - they encode both in one clause (S-framed constructions; see also Selimis and Katis 2010; Soroli 2011; 2012; Soroli and Verkerk 2017)
 - they split the two types of information into two clauses



Table 9a. Proportion of descriptions for Greek and German per Situation Type

	Language	Category					
		Р	Μ	MP	M/P	Ø	
B	German	0 (0%)	4 (10.3%)	35 (89.7%)	0 (0%)	0 (0%)	
	Greek	14 (35.9%)	15 (38.5%)	0 (0%)	0 (0%)	10 (28.6%)	

*Does the description include:

- Only the manner of motion (M)
- Only the path (P)

Type

- Both manner and path in a single clause (MP)
- Both manner and path in more than one clauses which were either juxtaposed or coordinated (M/P);
- Some other information not related to a motion event (Ø)



Table 9b. Proportion of descriptions for Greek and German per Situation Type

Language	Category					
	P	Μ	MP	M/P	Ø	
German	6 (6%)	2 (2%)	89 (89.9%)	1 (1%)	1 (1%)	
Greek	69 (68.3%)	17 (16.8%)	10 (9.9%)	4 (3.96%)	1 (1%)	

*Does the description include:

- Only the manner of motion (M)
- Only the path (P)

Type C

- Both manner and path in a single clause (MP)
- Both manner and path in more than one clauses which were either juxtaposed or coordinated (M/P);
- Some other information not related to a motion event (Ø)



Table 9c. Proportion of descriptions for Greek and German per Situation Type

	Language		Category					
Туре А		Р	Μ	MP	M/P	Ø		
	German	0 (0%)	2 (3.3%)	56 (93.3%)	0 (0%)	2 (3.3%)		
	Greek	13 (22%)	38 (64.4%)	2 (3.4%)	6 (10.2%)	0 (0%)		

*Does the description include:

- Only the manner of motion (M)
- Only the path (P)
- Both manner and path in a single clause (MP)
- Both manner and path in more than one clauses which were either juxtaposed or coordinated (M/P);
- Some other information not related to a motion event (Ø)



• Type A Situations

- The preference of Greek speakers for only manner verbalizations in Type A situations is not entirely atypical for V-framed languages
- Both S- and V-framed languages seem to have 'neutral everyday verbs' (e.g., *walk* see Slobin 1997: 459)
- Greek speakers accompany very often such verbs with nondynamic relators that express general localization (in 28/38 tokens; cf. Soroli and Verkerk 2017: 34)
- Paths are also frequently included in the speakers' verbalizations (32.2%) (cf. German: N=0)



- Our study shows that:
 - Goal prominence is language-specific and conditionspecific
 - Goal prominence must be investigated from a global comparative perspective including possible combinations of the relevant factors
 - The lexicalization pattern is a stronger predictor than grammatical aspect for the realization of Goal expression



- Within GOAL NOT REACHED motion events, there is structured variation
- The overall difference between the two languages comes from Type A situations.



Type A beginning



intermediate



final

In the clips that contain a
highly evident Goal,
German speakers produce
a higher proportion of
Goals than Greek speakers





Type A beginning



intermediate



final

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- In the clips that contain a highly evident Goal, German speakers produce a higher proportion of Goals than Greek speakers
- A possible explanation: S-framed languages have an advantage over V-framed languages, when it comes to the realization of the Goals in peripheral elements
- But the sensitivity to this typological distinction is activated under certain circumstances: **the salience of Goal**



Special thanks to those who participated in the study



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