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Focus as prosodic alignment

CECIL, August 30th 2011

Subject of this talk

•Focus universally tends to be aligned prosodically with the right or left edge of a prosodic domain. In alignment between a focused and a prosodic constituent, morpho-syntax is also involved, since edges of prosodic constituents often fall together with edges of syntactic constituents (Gussenhoven 1983, Chen 1987, Selkirk 1986, McCarthy & Prince 1993 among many others).

• Alignment can be fulfilled in many different ways, many of which we will see in a moment.

•Marking of focus with a special grammatical device is not necessarily obligatory. Languages often have several possibilities to mark a focus in grammar.

Subject of this talk

• Alignment must be separated from the notion of 'prominence' that has been proposed in the literature (Jackendoff 1972, Truckenbrodt 1995, Gussenhoven 2008, Zubizaretta 2008 Büring 2009). Prominence is difficult to demonstrate in a typological comparison, even when morphosyntactic reflexes are included in the list of 'prominent' markers.

• Prosodic prominence and alignment may be used together.

Content

- 1. Background: some notions and their definitions
- 2. An experiment with QUIS
- 3. Focus alignment with an i-phrase (intonation phrase)
- 4. Focus alignment with a p-phrase (prosodic phrase)
- 5. Focus alignment with deaccentuation
- 6. Focus Marker
- 7. Discussion

1. Background: some notions and their definitions

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Background: Prosodic Phrasing

Prosodic hierarchy: Strict layer Hypothesis

i-phrase) х (x)(x (x)(x)(x) p-phrase) p-words (1) Sarah bought lobsters

Alternative: Recursive prosodic structure. Some utterances need more than only one layer of non-recursive p-phrases (Wagner 2005, Ito & Mester 2009, 2011, Selkirk 2009, Féry & Kentner 2010, Féry & Schubö 2010).

(2) ((((Alan)_p ((and Barbara)_p (and Claire)_p)_p (and Dennis)_p)_p (and Edward)_p)_p ...)_i

Background: Focus and givenness

- Focus: 'Focus' is used rather traditionally as the part of the sentence which introduces alternatives that are relevant for the interpretation of linguistic expressions (Rooth 1985, 1992, Krifka 2008).
- Givennes: A given constituent has already been introduced into the discourse by a previous utterance or question, or is somehow prominent in the common ground (shared context).
- **Topic:** An 'aboutness topic' is a referent which the remainder of the sentence is about, possibly contrasting with other referents under dispute, and crucially followed by a focus constituent. The topic element has often, but not necessarily, been previously introduced into the discourse.

Background: A scale of focal strength

- a. all-new sentence (broad information focus)
- {What happens?} Tom is going to VIENNA
- b. informational narrow focus
- {Who is going to Vienna?} Tom is going to Vienna. c. exhaustive/identificational interpretation of a narrow focus
- {Which of your sons is going to Vienna?} It is $\ensuremath{\mathsf{TOM}}$ who is going to Vienna.
- d. association with focus (particles):
- {Do both Alain and Tom go to Vienna?} Only Tom is going to Vienna. e. contrastive focus: parallelism, right-node-raising, selection {Where are your sons going to?} Tom is going to VIENNA, and ALAIN to $\ensuremath{\mathsf{BerLIN}}$
- f. corrective focus:
 - {IS Alain going to Vienna?} No, ${\sf TOM}$ is going to Vienna/No, it is ${\sf TOM}$ who is going to Vienna.

Background: A scale of focal strength

• The probability of marking focus increases with the kind of focus on the scale (Fanselow 2007, Féry 2007, Skopeteas & Fanselow 2009)

•Distinction between a *new focus*, which is just an information focus, elicited as the answer of a wh-question, and a *corrective focus*, in which a constituent in a question is replaced by another in the answer.

Background: Alignment

Generalized Alignment (McCarthy & Prince 1993) The edge of a grammatical/prosodic category falls together with the edge of another grammatical/prosodic category.

 Where Cat₁ and Cat₂ are prosodic, morphological, or syntactic categories and Edge₁, Edge₂ are {Right, Left}:
 ALIGN (Cat₁, Edge₁; Cat₂, Edge₁) :
 For each Cat₁, there is a Cat₂, such that Edge₁ of Cat₁ and Edge₂ of Cat₂ coincide.

ALIGN-FOCUS

Align a focused constituent with the edge of a higher prosodic domain.

Background: Parametrization of focus alignment

ALIGN-FOCUS

Align a focused constituent with the edge of a higher prosodic domain.

- Two parameters: p-phrase or i-phrase, Right or Left
 - a. ALIGN-FOCUS R, I-PHRASE R:
 - Align a focus with the right boundary of an intonation phrase b. ALIGN-FOCUS L, I-PHRASE L:
 - Align a focus with the left boundary of an intonation phrase c. ALIGN-FOCUS R, P-PHRASE R: Align a focus with the right boundary of a prosodic phrase
 - d. ALIGN-FOCUS L, P-PHRASE L: Align a focus with the left boundary of a prosodic phrase

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Experiment

Task 'Anima' in the languages of the database of the SFB 632 in Potsdam (elicited with the questionnaire QUIS)

Procedure

•Four pictures presenting simple actions (involving an agent and a patient) are presented to the informant.

• The informant is instructed to observe the stimuli and **memorize the details** of the figures and the presented events. When s/he is ready, **the stimuli are taken away**. • The informant replies to **four questions** relating to the presented stimuli. S/he is instructed to give full answers.

Datasets

•Small datasets obtained by **four** native speakers per language.



Method

Focused	constituent: agent or patient	
Focus typ	e: new information focus (NI) or corrective focus (CR)	
	{2 further conditions were not considered systematically for talk: selective, confirmative}	or this
Thus asyr	nmetries of the focus type and/or asymmetries	
of the foc	us domain: word order and/or prosodic properties	
Stimulus	Picture of a man pushing a car in front of a well	
Condition	ns:	🔞 🦳 🛸
NI/Sbj:	'In front of the well, who is pushing the car?'	9
NI/Obj:	'In front of the well, what is the man pushing?'	
CR/Sbj:	'In front of the well, is a woman pushing a car?'	
CR/Obj:	'In front of the well, is the man pushing a bicycle?'	

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Right alignment in an i-phrase: Italian

- Alignment to the right of an i-phrase: Italian (Samek-Lodovici 2005)
- a. {What happened?} All-new, informational focus (Gianni ha ${\rm RISO}_{\rm F})_{\rm i}$ 'John has laughed.'
- b. {Who has laughed?} Narrow focus on the subject, informational focus (Ha riso GIANNI_F), `John has laughed.'
- c. {Who has laughed?} ^{??[}(GIANNI_F ha riso), `John has laughed.'

Right alignment in an i-phrase: Italian

Alignment to the right of an i-phrase: Italian (Samek-Lodovici 2005)

{Where did you go with Mario?} Narrow focus, informational focus

- (Sono andato con Mario) $_{\Phi}$ (a RomA_F) $_{\Phi}$), a. am gone with Mario to Rome 'I went to Rome with Mario.'
- b. ((Sono andato a $ROMA_F$), (con Mario)_{Φ}) am gone to Rome with Mario 'I went to Rome, with Mario.'

Right alignment in an i-phrase: Italian

Alignment to the right of an i-phrase: Italian (Samek-Lodovici 2005)

Alignment is not possible because of syntactic reason: numeral and noun cannot be discontinuous.

{How many cherries have you given to Mary?} Narrow focus on 'three' a. ((Ho dato a Maria) $_{\Phi}$ (TRE_F ciliege) $_{\Phi}$), have.1sg given to Mary three cherries 'I have given three cherries to Mary'

b. *Ho dato a Maria ciliege TRE_F to have.1sg given Mary cherries three

Right alignment in an i-phrase: Italian

CANONICALWORDORDER (CWO): Realize the canonical word order. HEAD-I-R: Align the right boundary of every intonation phrase with its head

T1 Gianni	ha riso (Focus = Gianni)	ALIGN-FOC-1-R	H-1-R	CWO
a. 👁	(Ha riso GIANNI _F),			*
b.	(GIANNI _F ha riso),	*!	*	
с.	(Gianni _F ha RISO),	*!		

Alternative from Samek-Lodovici (2006), inspired by Truckenbrodt (1995): Focus is prominent, accent is rightward.

Focus moves in order to be prominent. Prominence is the consequence of the right-alignment of accent.

Right alignment in an i-phrase: French

French also right-aligns a focus but it cannot move ist constituents inside of an i-phrase. Solution: creation of a new i-phrase (= a new clause)

(1) {Does a woman push the car?} Non, ((c'est un homme_F), (qui pousse la voiture),), no it-is a man who pushes the car 'No, a man pushes the car.' (no deaccenting)

(2) {Who pushes the man?}

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Word order in the experiment Anima for French (word order)

Agent new (n= 7) Agent correction (n= 7) Patient new (n= 7) Patient correction (n= 8)	SVO 2 - 7 8	Cleft 4 7 -	Passive 1
Patient correction (n= 8) In the majority of the cases c (subject) is i-phrase final In patient focus (object), can	of agent		

Italian and French are cases of subject/object asymmetry in the marking _______ of focus.

Right alignment in an i-phrase: French

Hamlaoui (2009) explains cleft sentences with alignment in Francilian French, the colloquial spoken language in the Parisian region.

SUBJECT: Sentences have overt subjects in SpecIP

	omme pousse la voiture	SUBJECT	ALIGN-	CW
	(Foc = un homme)		FOC-1-R	
a. 👁 ((C	est un homme _F) ₁ (qui pousse la voiture) ₁) ₁			*
b. ((Po	busse la voiture) $_{\Phi}$ (un homme _F) $_{\Phi}$)	*!		*
c. ((U	$homme_{\rm F}_{\Phi}$ (pousse la voiture) _{Φ} ,		*!	

Right alignment in an i-phrase

Cases of alignment with extraposition of given material and clitic doubling:

{To whom does Mary give a cake?} ((Marie)_{0} (donne un gâteau)_{0} (à son frère_F)_{0}), Mary gives a cake to her brother 'Mary gives a cake to her brother.'

 $\{ \mbox{What does Mary give to her brother} \} \\ \mbox{a. } ((Marie)_{\Phi} \mbox{(lui donne un gâteau_{F})_{\Phi}})_i \\ \mbox{Mary him.DAT gives a cake} \\ \mbox{`Mary gives him a cake.'}$

b. (((Marie)_{ϕ} (lui donne un gâteau_F)_{ϕ})₁, (à son frère)_{ϕ})₁

c. (((Marie)_{\Phi} (donne un gâteau_F)_{\Phi})_{_{I}}, (à son frère)_{\Phi})_{_{I}}

Right alignment in an i-phrase

Recall the case of non-alignment of the numeral in Italian:

{How many cherries have you given to Mary?} ((Je lui en ai donné trois)_{\phi}),, (de cerises)_{\phi} (à Marie)_{\phi}), I her of-them have given three, of cherries, to Mary 'I gave Mary three cherries.'

Both Italian and French align a focused constituent to the right of an i-phrase and change the syntax in doing so.

Right-Alignment in an i-phrase: 'Predicate Cleft'

Predicate cleft (PC): Copy the verb and prepose it.

Trinidad dialectal English (Cozier 2006 in NLLT): PC expresses contrastive focus on the verb or verum focus.
 Is WALK (that) Tim did *walk*.

'Tim WALKED (as opposed to running, skipping, etc.)' 'Tim really WALKED.'

 Haitian Creole (Piou 1982) Se malad tifi a malad. (Haitian) It's sick baby DET sick 'The baby is SICK.'

(Standard English can topicalize a verb: 'Everybody thought Mary walk, and walk she did.')

Left alignment in an i-phrase: Hungarian Results of Anima: Immediately preverbal focus in all cases (no exception) SVO SOV OVS Agent new (n = 8) 8 Agent correction (n= 8) 8 Patient new (n= 8) 4 Patient correction (n= 7) _ 6 1 Q: {Is a woman pushing the man?} (agent correction) A: Nem, (egy férfi_F löki el a férfit), no a man is-pushing the man 'No, a man is pushing the man' {Did the man kick up a table?} Q: (patient correction) Nem, (egy SZEKET_F rúgott fel a férfi), A: No, a chair kicked up the man

Left alignment in an i-phrase: Hungarian

Focus Phrase in the cartographic analysis: Bródy (1990), Horváth (2007) Syntax-semantics interface (due to an exhaustive reading of the focus): Szabolcsi (1981, 1994), É. Kiss (1998) prosody-syntax interaction (focus is located at the left of an i-phrase): Szendrői (2003) Preceded by topics and quantifier phrases (Horváth 2007 and É. Kiss 2010) From Balogh (2009:131) subscripted T stands for 'topic', subscripted Q for 'quantifier' Amy_T mindenkit_Q Benhez_F küldott. Amy everyone.Acc Ben.ALLATIVE sent 'Amy sent everyone to BEN.'

Left alignment in an i-phrase: Hungarian

Head-I-L: Align the left boundary of every intonational phrase with its head

T4 felrúgott a férfi egy szeket	ALIGN-	HEAD	CWO
(Foc = egy szeket)	FOC-1-L	-ı-L	
a. 🖝 (EGY SZEKET _F rúgott fel a férfi),			*
b. (egy szeket_F RÚGOTT FEL a férfi),		*!	*
c. (a férfi felrúgott EGY SZEKET_F),	*!	*!	*
d. (FELRÚGOTTa férfi egy szeket _F),	*!		
e. (FELRÚGOTT egy szeket _F a férfi),	*!		*

head of i-phrase is aligned to the left of an i-phrase as well. Focus and prominence fall together, like in Italian.

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Right alignment in a p-phrase: Chichewa

- Right alignment with a p-phrase: Chichewa Penultimate lengthening
- Kanerva (1990: 98)
- a. {What happened?/What did he do?}
 (([anaményá nyumbá ndí mwáála]_F)_Φ), he-hit house with rock
 'He hit the house with a rock.'

b. What did he hit with the rock?

- (All-new sentence)
- (Object NP focus)
- ((anaményá nyuúmba_F)_⊕ (ndí mwáála)_⊕),
 c. What did he do to the house with the rock? (V focus) ((anaméenya_F)_⊕ (nyuúmba)_⊕ (ndí mwáála)_⊕),

Right alignment in a p-phrase: Chichewa

Truckenbrodt's (1999) analysis of Chichewa: if WRAP cannot win because of higher-ranking ALIGN-FOC-Φ-R, ALIGN XP-R decides. The result is more phrases than strictly needed for alignment of focus.

Wrap: an XP is contained into a p-phrase.

T5 anaményá nyúmba ndí mwála	ALIGN-	WRAP	ALIGN
(Foc = anaményá)	FOC-Φ-R		XP-R
a. 𝔎 (anaméenyá _F) _Φ (nyuúmba) _Φ (ndí mwáála) _Φ	Þ	*	
b. (anaményá _F nyumbá ndí mwáála) $_{\Phi}$	*!		*
c. (anaméenyá _F) $_{\Phi}$ (nyúmba ndí mwáála) $_{\Phi}$		*	*!
c. $(anameenya_F)_{\Phi}$ (nyumba ndi mwaala)_{\Phi} Aqain: if the result of inserting a p-phrase t		achieve	*!

	itio Basque (Elordieta et al. 1999 and Elordieta 2005, Gussenhoven 2004).
	tá is an accented word and can trigger a p-phrase boundary to its right.
Txak	ur cannot because it is unaccented.
a. Is	<pre>d order between noun and adjective cannot be changed. three-way ambiguous: dog, black, black dog can be focused: you see the black cat?}</pre>
<i>τ</i> Diu	
	a. ((Txakur BALTZÁ) $_{\Phi}$ (ikusi dot) $_{\Phi}$)
	dog black see AUX
	'I saw the black DOG!'
	I saw the black $DOG!$ b. * ((TXAKUR) ₀ (BALTZÁ) ₀ (ikusi dot) ₀),

ALIGN-FOC-H*-R: Align the right e				s
constituent with the nuclear H*	(Gussenho	ven 200	2:180)	
DEP(H*): No epenthesis of H*	(Gussenhove	en 2002	:180)	
	Den (Tth)	01110		
T6 txakur baltzá ikusi dot (Foc = txakur)	DEP(H*)	CWO	ALIGN-	ALIGN-
	DEP(H*)	cwo	ALIGN- FOC-H*-R	ALIGN- FOC-Φ-R *
a. \mathscr{F} (Txakur _F BALTZÁ) $_{\Phi}$ (ikusi dot) $_{\Phi}$	DEP(H*)	CWO		
a. \mathscr{T} (Txakur _F BALTZÁ) $_{\Phi}$ (ikusi dot) $_{\Phi}$		CWO *!		

Γ

Konkani is an Indo-Aryan lang Results of Anima	juage spoken	in Goa (I	ndia)	
	SOV	OSV	SV	OV
Agent new (n = 6)	5	-	1	-
Agent correction (n= 6)	4	2	-	-
Patient new (n= 6)	5	-	-	1
Patient correction (n= 5)	5	-	-	-
SOV is the unmarked word or	der. V is alwa	ys final (2	23/23)	
Given element can be elided (2/23)			
Reordering: OSV is licensed b to be preverbal.	y Agent focu	s (2/12), p	orobably	because focus wants

Right alignment in a p-phrase: Konkani









Left alignment in a p-phrase: Georgian

Focused constituent is generally preverbal (Aronson 1982/1990, Boeder 2005, Harris 2000, McGinnis, 1997a, 1997b, Nash, 1995 and Skopeteas and Fanselow 2010a,b)

In Anima Focused agent is immediately preverbal Focused patient is pre- and sometimes postverbal Results of the experiment Anima for Georgian SVO OSV SOV OV Agent new (n = 7) 4 3 - Agent correction (n= 7) 5 2 -

Agent new (n = 7)	4	3	-	-	-	
Agent correction (n= 7)	5	2	-	-	-	
Patient new (n= 8)	3		3	1	1	
Patient correction (n= 8)	-		7	1	-	

ovs

Agent correction (OSV) {In the scene with the blue sky: Is a man hitting the man?} ara, ((k'atss)_{{}}([kali_{{}_{E}} urts'q'am)_{{}_{{}_{D}}}), no, man woman is-hitting. 'No a woman_{{}_{E}} is hitting the man.' Patient new (SVQ) {In the scene in front of the fence, what is the girl hitting?} ((gogo u-rt'q'-am-s)_{{}_{O}} (mankana-s_{{}_{F}})_{{}_{O}}), 'The girl is hitting a car_{{}_{F}}.' Phrasing in Georgian is prosodic: the pre-focal constituent has a high boundary tone



		:Georgian		
Agent correction (SVO)				
{In the scene in front of the wel		an pushing a ma	in?}	
ara, ((k'atsi _F ats'veba				
no, man is-pushing				
'No, a man _F is pushing t	the man.'			
VERBADJACENCY: Focus is adjacen	t to the verh			
TOPIC: Topic is initial in its doma				
T8 k'atsi ats'yeha k'atss (Foc = k'atsi)	VEPRADI	AL-FOC-D-I	CWO	TO
T8 k'atsi ats'veba k'atss (Foc = k'atsi) a. \mathscr{T} ((k'atss) (k'atsi ats'veba)).	VERBADJ	AL-FOC-Φ-L	CWO *	TOF
a. \mathscr{T} ((k'atss) _{Φ} (k'atsi ats'veba) _{Φ}) _i	VERBADJ	AL-FOC-Φ-L	CWO *	TOF
	VERBADJ *!	AL-FOC-Φ-L	CWO *	

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Marginal cases of alignment

Two further cases are marginal exemplifications of alignment

Deaccenting of post-focal material

Focus markers

Deaccenting as alignment: German

Results of Anima

Word order is not changed in such short sentences, but postnuclear deaccenting happens (compare with Italian and French) SVO

8

7

8

Cleft

1

-

_

Agent new (n= 8)	
Agent correction (n= 8)	
Patient new (n= 8)	
Patient correction (n= 8)	

8 In a larger sample: SO is 100% valid



Deaccenting as alignment: German i-phrase p-phrase word x x х х х х $((\text{Der Mann})_{\Phi} (\text{tritt (einen STUHL}_{F})_{\Phi})_{\mu})_{\mu})_{\mu}$ i-phrase х х . p-phrase $\begin{array}{ccc} x & x & x \\ ((ein \mbox{ Mann}_{\mbox{\tiny F}})_{\Phi} \mbox{ (schneidet } (die \mbox{ Melone})_{\Phi}) \)_{\Phi})_{\mbox{\tiny I}} \end{array}$ word

DESTRESS-GIVEN (DG) A postnuclear given phrase is prosodically	non-pror	ninen	ıt.	
······································				
T9 ein Mann schneidet die Melone	CWO	DG	H-1-R	ALIGN-FOO
(Focus = ein Mann)	0	ы	II-t-K	1-R
a. $\mathscr{P}((\text{ein MANN})_{\Phi}(< \text{schneidet die Melone})_{\Phi})_{1}$			*	*
b. ((schneidet die Melone) $_{\Phi}$) ₁ (ein MANN) $_{\Phi}$) ₁	*!			
c. ((ein MANN) $_{\Phi}$ (schneidet die MELONE) $_{\Phi}$) ₁		*!		*

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Focus marker to the right of focus: Fon

Fon (Kwa, Gbe), Schwarz & Fiedler (2007) and Fiedler et al. (2009) is a case of subject-object asymmetry. Object is right-aligned by default, but both subject and object can be placed in the sentence-initial position. The subject is then obligatorily followed by the focus marker wè, the object only optionally.

 $\begin{array}{l} (([\dot{a}yik\dot{u}h_F\ (w\dot{e})])_\Phi\ (\dot{e}\ d\dot{\mu})_{\varphi})_t\\ \underline{bean} \qquad (FM) \qquad 3SG\ eat\\ 'She\ ate\ [\underline{beans}]_F'\sim 'It\ is\ [beans]_F\ that\ she\ ate.' \end{array}$

Focus marker to the right of focus: Fon

Hypothesis: One of the roles of the particles is to create boundaries of prosodic phrases. The absence of particle in final object focus is unexplainable if the particle has a purely pragmatic role, as often assumed in the literature (see Aboh 2010 for instance).

DEP-FM: No epenthesis of focus markers

T10 nyðnú 5 du àyìkún (Foc = àyìkúń)	CWO	ALIGN FOC-1-R	Align Foc-Φ-R	DEP- FM
a. \mathscr{P} ((nyònú ó dụ àyìkún _F) _{Φ}),				
b. $((ny) n u \delta du a) k u h e)_{\Phi}$				*

Focus marker to the right of focus: Fon

T10 nyònú 5 du àyìkún	CWO	ALIGN	ALIGN	DEP-
(Foc = àyìkúń)		FOC-1-R	<u>Foc</u> -Φ-R	FM
a. \mathscr{T} ((<u>nyònú ó</u> dụ àyìkún _F) _{Φ}),				
b. $((ny \partial n u \delta du a y) k u n_F w \varepsilon)_{\Phi})_{\iota}$				*
T11 nyònú ó du àyìkún	CWO	ALIGN	ALIGN	DEP
$(Foc = ny\delta nú \delta)$		FOC-1-R	Foc-Φ-R	
a. \mathscr{P} ((nyònuf ó we) $_{\Phi}$ (du àyìkún) $_{\Phi}$),		*		*
b. $((d_{\mu} a_{\lambda})k_{\mu} n_{\lambda})_{\mu}$	*!			
c. $((ny)nu_{f} \circ du a)(kun)_{\Phi})_{t}$		*	*!	

Focus marker to the right of focus: Ditammari

Ditammari (Gur) (Reineke 2006, Fiedler et al. 2009) Focus marker nya or \dot{e} , which also indicates gender agreement, follows the focus in-situ, also if the object is right-aligned.

 $\begin{array}{l} \{ What \ did \ the \ child \ buy? \} \\ ((bi(go nond bar banan F e)_{\Phi})_i \\ \underline{child} \quad \underline{buy.PF} \ banana \ FM \\ `The \ child \ bought \ \underline{[bananas]_{F}}.' \end{array}$

Focus marker to the right of focus: Ditammari

But if the focus is not right-aligned, a second morpheme ma appears at the end of the i-phrase. A possible analysis: ma ensures right-alignment with the i-phrase, nya is responsible for right-alignment to the p-phrase.

Focus marker to the left of focus: Hausa

Hausa (Chadic)

The choice between left-dislocating an object or leaving it in situ can have a pragmatic effect: a. is the answer to an informational question and b. is corrective.

Moreover the dislocated object is followed by a focus marker.

a.{What is <u>Kande</u> cooking?} ((<u>Kandé</u> <u>tá-naa</u> <u>dáfa</u> <u>kíifíi</u>_F)_Φ)_ι <u>Kande</u> 3SG.F-IPF <u>cooking</u> fish '<u>Kande</u> is cooking (a) [<u>fish]</u>_F.' <u>b.{Kande</u> is cooking meat.} ((<u>Kíifíi</u>_F nee)_Φ (<u>Kandé</u> <u>tá-kee</u> <u>dáfaawáa</u>)_Φ)_ι <u>fish</u> <u>FM.M</u> <u>Kande</u> 3SG.F-IPF.REL cooking 'It is (a) [<u>fish]</u>_E that <u>Kande</u> is cooking.'

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Discussion: Conspiracy

Languages achieve fulfillment of the align focus constraint in different ways (conspiracy). Reordering of the constituents: Italian, Spanish, Georgian, Hungarian.

Reordering of the constituents: Italian, Spanish, Georgian, Hungarian. More radical change in the syntax (cleft): French, Chinese. Insertion or enhancement of prosodic boundaries: Chichewa, Konkani (also Japanese).

Deaccenting of postnuclear material: German, (same results for Dutch, English, Greek). Additions of morphemes: Fon, Ditammari, Bole, Guruntum.

The need for prosodic alignment can be countered by constraints in syntax: illustrated with Italian and Basque, but ubiquitous.

Discussion: puzzles solved

1.Why do so many languages have only one position for focus? If this position satisfies alignment, there can only be one.

 The pre-/postnuclear asymmetry: deaccenting only takes place in the postnuclear position. If alignment of focus is rightward in German and English, prenuclear deaccenting is not necessary.

3. Subject/object asymmetry in so many languages

Discussion

Alternative proposal by Büring (2009:178ff) inspired by Truckenbrodt (1995)

FocusProminence Focus needs to be maximally prominent.

Prominence is defined as abstract metrical position which renders the model difficult to falsify:

"By definition, the head of any constituent [...] is more prominent than any of its sisters (any other element within that constituent)."

Pitch accents are not present in all languages. Alignment may or may not accompanied by a pitch accent

Alignment is simple and universal.

Thanks to all assistant researchers involved in this project. Thanks to Stavros Skopeteas for helping with the word order facts. Thanks to the SFB 632 on information structure financed by the DFG.