sbusfal bus asort?

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2. Asymmetry in adjunct vs. complement clauses:

(Hualde et al. 1994, A. Elordieta 2002)

When an embedded clause precedes the matrix verb:

With adjuncts, SS on phrase preceding matrix verb:

"Тиеу got angry because I had seen Jon." CP JOR. ABS seen had. CAUS] got. angry were [CP Jon ikusi nebaneláko] <u>asarratu</u> sin. (Ŧ)

Mith complements, SS on phrase preceding embedded verb:

They said that I had seen Jon.' Cr [pr Jon. ABS | Seen had COMP | said had uòt ₄oj ₄oj (9)

 $\delta^{R}VM$

The internal structure of islands is invisible to phrase stress rules.

:998 Il'9w aA

- this explains the asymmetry in problem 2, and
- it also gives an answer to problem 1.

Outline_

- §2: sentence stress in NBB
- §3: the asymmetry in complement/adjunct clauses (problem 2)
- §4: which phrase? (problem 1)
- \$5: stress, islands, and focus

Stress and Islands in Northern Bizkaian Basque

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I. Introduction

Stress/accent in Northern Bizkaian Basque (NBB):

• Unaccented words only have stress iff they have sentence stress/accent (SS) Accented words have stress (pitch accent) in all environments.

(Azkue 1923, Hualde 1991, 1999, Hualde et al. 1993, 1994, G. Elordieta 1997, 2003)

an ui ssəris əənətnəs . (1)

a. Sentence stress is within the phrase immediately preceding the main verb.

Within that phrase, stress is on the final/penult syllable of the phrase.

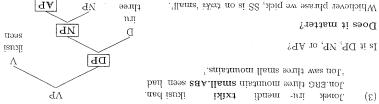
(Final or penult depending on dialect/lexical item. In Ondarroa, mostly penult.)

 \Rightarrow Since Basque is SOVAux, SS is typically on the object:

Lon saw his friend. Jon. ERG friend. ABS. SG seen had ikusi ban. Ропек **Іаgʻúne** (2)

Problems:

I. Typically, there is no unique phrase immediately preceding the main verb:



Whichever phrase we pick, SS is on traks 'small'.

 \Rightarrow It does, once we choose our examples carefully.

mountain small

ibnəm

txiki

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Stress and Islands

2. The Sentence Stress Rule in NBB

Sentence stress is derived in two steps:

(7) Sentence stress in NBB

- a. Sentence stress is within the phrase immediately preceding the main verb.
- b. Within that phrase, stress is on the final/penult syllable of the phrase.

Formalism: Labeled tree notation_

(Liberman 1975, Liberman and Prince 1977)

(8) For any overt node α , one of the overt daughters of α is labeled *strong* (s), and the other daughters of α , if any, are labeled *weak* (w).

In a language where the *leftmost* node is strong (more prominent):

(9)



 β , s

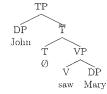


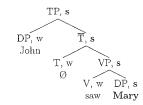
We need two more ingredients:

- (10) The root node is labeled s.
- (11) Nuclear stress is on the lowest node dominated only by s nodes.

e.g. nuclear stress in English: the rightmost daughter in every constituent is strong:

(12) John saw Mary





3

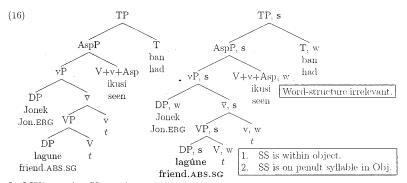
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Sentence Stress Rule in NBB: (Arregi 2002, based on Cinque 1993, Zubizarreta 1998)

(13) In a constituent α , the head of α is strong iff it branches.

In SOVAux order, SS on object:

(15) Jonek lagúne ikusi ban.
Jon.ERG friend.ABS.SG seen had
'Jon saw his friend.'



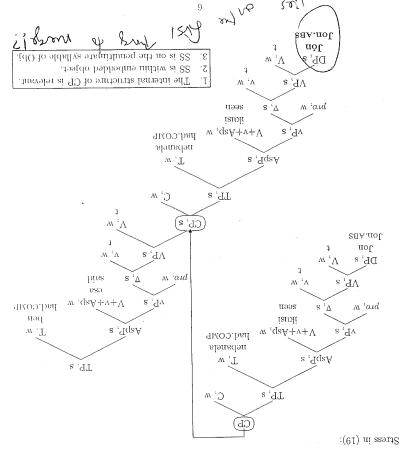
In OSVAux order, SS on subject:

(17) Lagune Jónek ikusi ban. TP, s friend.ABS.SG Jon.ERG seen had 'Jon saw his friend. DP, w TP. s lagune friend.ABS.SG Only subject is overt in vP. AspP, s T. w SS is within subject. ban SS is on penult syllable in Sbj. Jónek $t_{DP} t_V t_v$ Jon.ERG

3.2. Complement clauses are mot islands to movement:

(23) Sein esa ben [cp t ikusi nebaneka] who.ABS said had [cp t seen had.COMP] Who did they say I saw?

⇒ The internal structure of complement clauses is visible to phrase stress rules.



3. Back to Problem 2: Asymmetry in Complement/Adjunct Clauses

In adjuncts, SS on phrase preceding matrix verb:

(18) [CF JOHARS Seen had.cause I had seen JOH. They got angry meters and mad.cause I had seen JOH. They were the control of th

In complements, SS on plurace preceding embedded verb:

(21) (27) $(P_{p} \log \log n)$ (21) $(P_{p} \log \log n)$ (22) $(P_{p} \log n)$ (23) $(P_{p} \log n)$ (24) $(P_{p} \log n)$ (25) $(P_{p} \log n)$ (25) $(P_{p} \log n)$ (27) $(P_{p} \log n)$ (28) $(P_{p} \log n)$ (28) $(P_{p} \log n)$ (29) $(P_{p} \log n)$ (29) $(P_{p} \log n)$ (20) $(P_{p} \log n)$ (20

Proposal:

The internal structure of islands is invisible to phrase stress rules.

3.1. Adjunct Clauses

Adjunct clauses are islands to movement:

(12) * Sein sasıratu sin [Cp î ikusi nebanelako] who.ABS got.angry were [Cp î seen had.CAUS]

 \Rightarrow The internal structure of adjunct clauses is invisible to phrase stress rules.

Stress in (18):

Aspp, s Tr, w sin construction of CP, s V+v+Asp, w were searched by vP, w V+v+Asp, w were searched by vP, w V+v+Asp, w Searched by vP, w Searched by vP, w V+v+Asp, w Searched by vP, w

4. Back to Problem 1: Which Phrase?

Typically, there is no unique phrase immediately preceding the main verb:

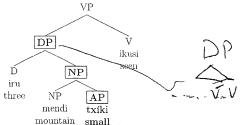
(24) Jonek iru mendi txíki ikusi ban. Jon.ERG three mountain small.ABS seen had 'Jon saw three small mountains.

Is it DP, NP, or AP?

Does it matter?

Whichever phrase we pick, SS is on txiki 'small'.

⇒ It does, once we choose our examples carefully.



The internal structure of islands is invisible to phrase stress rules.

DPs are islands in Basque, regardless of syntactic position and definiteness:

ikusi ban ($_{\mathsf{DP}}$ t lagun batek) Jon * Señen who.GEN seen had [DP t friend a.ERG] Jon.ABS

'Who did a friend of see Jon?'

Object

* Señen ikusi sendun lop t argaski bat who.GEN seen had DP t picture a.ABS

'Who did you see a picture of?'

northe Sub PP intalias)

⇒ The relevant phrase in (24) is DF

Jonek De iru mendi txiki ikusi ban. Jon.ERG [DP three mountain small] seen had 'Jon saw three small mountains.'

- The internal structure of DP is irrelevant.
- 2. SS is within DP.
- 3. SS is on penult syllable in DP.

Evidence that DP is the relevant phrase:

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• In dialects where SS is penult in the phrase, stress is final in monosyllabic phrases:

Olatzek [Jón] ikusi ban. Olatz.ERG [Jon] seen had 'Olatz saw Jon.'

• A sentence like (24), except the AP is monosyllabic:

(30) Jonek [DP iru [NP mendí [AP sar]]] ikusi ban. Jon.ERG [DP three [NP mountain [AP old]]] seen had 'Jon saw three old mountains.

Thre Stress is on final syllable in noun.

⇒ Stress is on penult in NP/DP, not AP. (Otherwise, stress would be on sar.)

⇒ The relevant phrase is not AP.

• A sentence like (24), except the NP is monosyllabic:

(31) Jonek [DP irú [NP jai]] ikusi ban Jon.ERG [DP three [NP party]] seen had 'Jon saw three parties.'

Stress is on final syllable in determiner.

⇒ Stress is on penult in DP, not NP. (Otherwise, stress would be on jai.)

⇒ The relevant phrase is DP, not NP.

Summary_

The internal structure of islands is invisible to phrase stress rules.

Explains the asymmetry in adjunct/complement clauses.

Clarifies what the phrase means in the initial generalization.

Explains stress patterns in DPs ending in monosyllabic words.

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.s (04)

.s (8E)

(32) Focus-Prosody Principle

John saw Mary.

If context requires focus on object, it must have sentence stress:

- Year and John see? .A (±8)

NBB is the same, except variation in stress placement is achieved by altering word order:

- "Yho saw the dog?" dog. ABS. SG who. ERG seen had fasd ismli піэг этшльхТ .A (38)
- B. * Jonek * txakúrre ikusi ban.
- Txakurre Jónek $_{\mathbb{F}}$ ikusi ban. B,
- Toos not bib tsalW Jon.ERC what.ABS seen had .A (88) fikusi ban? Jonek se
- Jon saw the dog.' Jon.ERG dog. ABS. SG seen had Jonek txakúrrer ikusi ban. B.
- B'. * Txakurrep Jónek ikusi ban.

5. Stress, Islands, and Focus

There is a well-known relation between sentence stress and focus in English and other lan-

The focused constituent must contain sentence stress.

(Jackendoff 1972, Selkirk 1984 and many others)

If context requires focus on subject, it must have sentence stress:

.A (88) Who saw Mary?

B'. * John saw Mary.

B. *John saw Mary F.

John saw Mary F.

In MBB, DPs are islands, so only the penult syllable in the DP in (39-40) can be stressed:

Jon.GEN mother.ABS.SG seen had, not my mother.ABS.SG

JOR.GEN MOTHER ABS.SG seen had, not Jon.GEN father.ABS.SG

ikusi neban, es - nire ama.

ikusi neban, es Jonen atxe.

not even focus can't change that,

Jonen Jama

asmis nanot.

If we look in the right places, English behaves the same way; -ed is not stressable; not leaves that:

even focus can change that:

Focus cannot place stress on unstressable elements.

The focused constituent does not always contain sentence stress.

b. *Jónen p ama ikusi neban, es nire ama. I saw Jon's mother, not my mother.

* Jonen amar ikusi neban, es Jonen atxe.

'I saw Jon's mother, not Jon's father.'

In NBB, DP-internal material does not behave the same way:

John saw Bill's sister, not Bill's/his brother.

* John saw Bill's sistere, not Bill's/his bother. * John saw Bill's sister, not Mary's (sister).

John saw Bill's g sister, not Mary's (sister).

In English, DP-internal material behaves the same way:

from tense Is John dating Mary?

B. *Well, he dated her, but he doesn't any more.

(cf. He will date her.)

B'. Well, he dáted her, but he doesn't suy more.

(cf. *He will date her.)

And a short whole on Bill their stress systems. What distinguishes NBB and English is not the focus-prosody interface, (but

6

6. Conclusion

- Like many other languages, NBB has a sentence stress rule.
- What distinguishes it from other languages is that it can't apply inside islands.
- This accounts for differences in stress placement in complement and adjunct clauses.
- The focus-prosody interface in NBB is more similar to other languages than it would seem at first.

7. Appendix: Formalism

Arregi 2002: Sentence Stress Rule is formalized with Idsardi's (1992) metrical grid. (See also Liberman and Prince 1977, Prince 1983, Halle and Vergnaud 1987.)

- (43) Sentence Stress Rule (SSR)
 - a. Insert a right parenthesis to the right of the rightmost asterisk (=RRR).
 - b. In the following configuration:

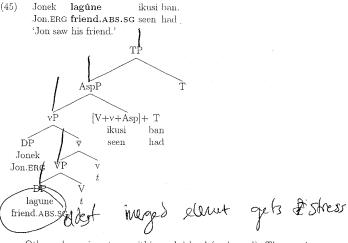
* * line N $\begin{bmatrix} \gamma \alpha & \beta \end{bmatrix}$

The asterisk corresponding to the head of γ projects to line N+1 iff the head of γ is branching.

We also need the SEC (Halle and Vergnaud 1987, Arregi 2002):

(44) Stress Equalization Convention (SEC)

When two or more constituents are conjoined into a single higher level constituent, the highest grid columns of the constituents are equalized by adding grid elements to the lesser columns. Arregi 2002: typically, main verb and Aux form a word in the phonology:



- Other rules assign stress within each island (and word). They project up to line 2.
- We apply SEC and SSR cyclically to every constituent containing more than one word.
- For clarity, asterisks inserted by SEC are enclosed in curly brackets.

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References

Arregi, Karlos. 2002. Focus on Basque movements. Doctoral Dissertation, Massachusetts

Institute of Technology.

Cinque, Cuglielmo. 1993. A null theory of phrase and compound stress. Linguistic Inquiry Azkue, Resurrección María. 1923. Morfología vasca. Bilbao: Euskaltzaindia.

contexts in Northern Bizkaian Basque. In Erramu boneta: Festschrift for Rudolf P. G. de Elordieta, Arantzazu. 2002. On the (im)possibility of prosodic focus marking in embedded 24:239-297.

Engkal Herriko Unibertsitatea. Rijk, ed. Xabier Artiagoitia, Patxi Goenaga, and Joseba Andoni Lakarra, 153-177. Bilbao:

phonology and morphology of the major Iberian languages, ed. Fernando Martínez-Gil and Elordieta, Gorka, 1997. Accent, tone and intonation in bekeitio Basque. In Issues in the

Elordieta, Gorka. 2003. Intonation. In A grammar of Basque, ed. José Ignacio Hualde and Alfonso Morales-Front, 3-78. Washington, DC: Georgetown University Press.

Halle, Morris, and Jean-Roger Vergnand. 1987. An essay on stress. Cambridge, MA: MIT Jon Ortiz de Urbina, 72-112. Berlin: Mouton de Gruyter.

Hualde, José Ignacio. 1991. Basque phonology. New York: Routledge.

Hualde, José Ignacio. 1999. Basque accentuation. In Nord prosodic systems in the languages

Hualde, José Ignacio, Corka Elordieta, and Arantzazu Elordieta. 1993. Focalización y prosoof Europe, ed. Harry van der Hulst, 947-993. Mouton de Gruyter.

dia en vascuence vizcaíno. Actus del Seminario de Filología Vasca 17:731-749.

of Lekeitio. Bilbao: Euskal Herriko Unibertsitatea. Hualde, José Ignacio, Gorka Elordieta, and Arantzazu Elordieta. 1994. The Busque dialect

Institute of Technology. Ideardi, William J. 1992. The computation of stress. Doctoral Dissertation, Massachusetts

Jackendoff, Ray S. 1972. Semantic interpretation in Generative Grammar. Cambridge, MA:

Liberman, Mark Y. 1975. The intenational system of English. Dectoral Dissertation, Mas-

Liberman, Mark Y., and Allan S. Prince. 1977. On stress and inguistic rythm. Linguistic sychmetts institute of Technology.

Inquiry 8:249-336.

Selkirk, Elisabeth. 1984. Phonology and syntax: The relation between sound and structure. Prince, Alan S. 1983. Relating to the grid. Linguistic Inquiry 14:19-100.

Cambirdge, MA: MIT Press.

Zubizarreta, María Luisa. 1998. Prosody, focus, und word order. Cambridge, Mass.: MIT

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