

Stress Rules, p. 1

Examples are from Bruce Hayes (1985) *A Metrical Theory of Stress Rules*. Garland (originally his 1980 MIT PhD dissertation.), Morris Halle and Jean-Roger Vergnaud (1987) *An Essay on Stress*. MIT Press, Iggy Roca and Wyn Johnson (1999) *A Course in Phonology* Blackwell, and Morris Halle and G. N. Clements (1983) *Problem Book in Phonology* MIT Press. Information about languages comes from www.ethnologue.com.

Basics Bengali

- | | | |
|-----|-------------|------------------------|
| (1) | ápon | ‘personal’ |
| (2) | dhópa | ‘washerman’ |
| (3) | ápnar | ‘your own (honorific)’ |
| (4) | báčorik | ‘annual’ |
| (5) | ónušoron | ‘pursuit’ |
| (6) | páromanobik | ‘atomic, molecular’ |

Indic (Indo-European) language with 207 million speakers; spoken by 100 million in Bangladesh (arrow on right) and over 70 million in West Bengal state and neighboring areas in India (arrow on left).



Project syllable heads onto baseline
Word is left-headed (i.e. Project the leftmost asterisk)

* Stress line 1
* * * * * Baseline
paromanobik

French

Romance (Indo-European), spoken by 77 million in France, Switzerland, Belgium, Quebec, etc.

The transcriptions reflect a formal style of pronunciation; the vowel transcribed [ə] is really a short [ɔ̃].

- | | | | | | |
|-----|----------|--------------|-----|----------|-------------|
| (1) | alokasyǔ | ‘allocation’ | (4) | opinyǔ | ‘opinion’ |
| (2) | ekstrá | ‘extra’ | (5) | fonoloží | ‘phonology’ |
| (3) | kādidá | ‘candidate’ | (6) | ekstrémə | ‘extreme’ |

Project syllable heads onto baseline.
Make rightmost asterisk extrametrical if it dominates [ə].
Word is right-headed.

* Stress line 1
* * * * * Baseline
alokasyǔ

* Stress line 1
* * <*> Baseline
ekstrémə

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Feet and Parameters

Maranungku

- | | | |
|-----|---------------|----------------|
| (1) | tíralk | 'saliva' |
| (2) | mérepèt | 'beard' |
| (3) | yángarmàta | 'the Pleiades' |
| (4) | lángkaràteti | 'prawn' |
| (5) | wélepènemànta | 'kind of duck' |



Stress is on odd-numbered syllables, counting from the beginning of the word. Main stress is the left-most one.

Non-Pama-Nyungan Australian language, spoken in Northern Territory southwest of Darwin. Like the nearby Malak-Malak, it is a language on the verge of extinction, with 15–20 speakers reported in 1983.

Project syllable heads onto baseline.
Construct Stress Line 1 by building left-headed feet left-to-right.
Construct Stress Line 2 by making the word left-headed.

*			
(*	*	*	*)
(*	*)	(***)	(*)

langk a rat e t i

Stress Line 2
Stress Line 1
Baseline

*			
(*	*	*	*)
(***)	(***)	(***)	(***)

wel e penemanta

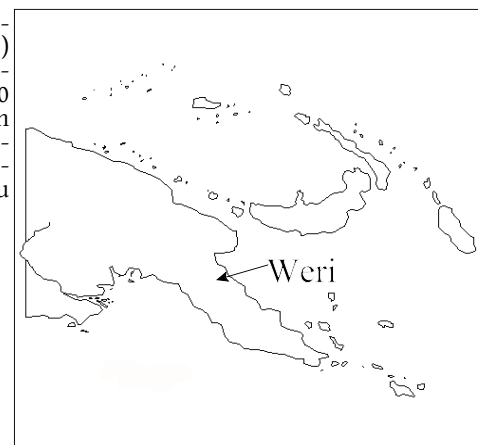
Stress Line 2
Stress Line 1
Baseline

Note that the degenerate foot is stressed.

Weri

- | | | |
|-----|------------|---------------|
| (1) | ŋintíp | 'bee' |
| (2) | kòlípó | 'hair of arm' |
| (3) | ɔlðamít | 'mist' |
| (4) | àkònètépál | 'times' |

Trans-New Guinea (Papuan) language with approx. 4000 speakers, spoken in Papua New Guinea (Morobe Province, Wau District)



Stress on odd numbered syllables counting from the end of the word. The final syllable has main stress.

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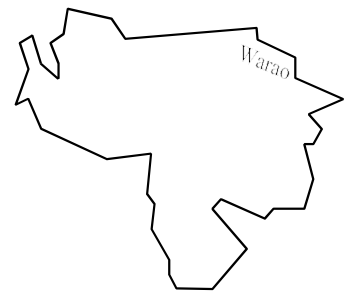
Project syllable heads onto baseline.
Construct Stress Line 1 by building right-headed feet right-to-left.
Construct Stress Line 2 by making the word right-headed.

*	Stress Line 2	*	Stress Line 2
(* *)	Stress Line 1	(* * *)	Stress Line 1
(* *)(* *)	Baseline	(*)(* *)(* *)	Baseline
oʎo amit		ak o net a pal	

Warao

- | | | |
|-----|------------------|---------------------------------|
| (1) | yàpurùkitàneháse | ‘verily to climb’ |
| (2) | nàhoròahàkutái | ‘the one who ate’ |
| (3) | yiwàranáe | ‘he finished it’ |
| (4) | enàhoròahàkutái | ‘the one who caused him to eat’ |

Language of uncertain classification with 28,100 speakers, spoken in Venezuela.



This is like Weri, but shifted one syllable to the left. That is to say, it looks as if the stress rules are the same as Weri, but the last syllable doesn't count. The final syllable is extrametrical.

Project syllable heads onto baseline.
Final baseline element is extrametrical.
Construct Stress Line 1 by building right-headed feet right-to-left.
Construct Stress Line 2 by making the word right-headed.

*	Stress Line 2
(* * * *)	Stress Line 1
(*)(* *)(* *)(* *) <*>	Baseline
yap uruk i tan ehas e	

Malak-Malak (from the “Rhythm” handout)

- | | | |
|-----|---------------------------|---------------------------------------|
| (1) | núŋkuřuntuwòròwàkka | ‘You (pl) would have given them meat’ |
| (2) | wuwúntunùnuwàkna | ‘He would have given you (sg) meat.’ |
| (3) | nónkòrònöyùnkà | ‘You (pl) will lie down.’ |
| (4) | ařkíniyàŋka | ‘We are all going to stand.’ |
| (5) | múnankàřa | ‘beautiful’ |
| (6) | wúru | ‘arm, rivulet’ |
| (7) | melpápu <i>or</i> mélpapù | ‘father’ |

Stress is on the next-to-last (penultimate) syllable, and on alternating syllables before that. Stress clash is resolved by deleting the first stress or, in the case of words with three syllables, optionally by moving

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an asterisk to the right.

Project syllable heads onto baseline.
 Construct Stress Line 1 by building left-headed feet right-to-left.
 Construct Stress Line 2 by making the word left-headed.

*	Stress line 2
(* * * *)	Stress line 1
(* *) (* *) (* *) (* *)	Baseline
nurku řuntuwöröwakka	

* *	Stress Line 1	*	Stress Line 2	*	Stress Line 2
(*)(* *)	Baseline	→	(*)	Stress Line 1	(* *)
melpapu			* (* *)	Baseline	or (*)(* *)
			melpapu		Baseline
					melpapu

Note that when a constituent loses its head, it also loses its status as a constituent.

Line Conflation

Macedonian

South Slavic (Indo-European) language, the official language of the Republic of Macedonia. It has 2,113,170 speakers, 1,390,000 of them in Macedonia.

- | | | |
|--------------------------|--|--------------------------------|
| (1) vodéničar ‘a miller’ | | (3) vodeničárite ‘the millers’ |
| (2) vodeničari ‘millers’ | | |

The position of main stress is antepenultimate, which can be achieved with extrametricality for the final syllable and left-headed feet. But the secondary stresses do not surface.

Project syllable heads onto baseline.
 Final baseline element is extrametrical.
 Construct Stress Line 1 by building left-headed feet right-to-left.
 Construct Stress Line 2 by making the word right-headed.
 Conflate lines 1 and 2.

*	Stress line 2		
(* * *)	Stress line 1		
(*)(* *) (* *) <*>	Baseline	→	* * * (* *) <*>
vo deni čari te			vodeničari te
			Stress line 1
			Baseline

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II.
 Project syllable heads onto baseline.
 Accent heavy syllables.
 Construct Stress Line 1 by building right-headed feet right-to-left.
 Construct Stress Line 2 by making the word right-headed.

Lexical Accents

more Aklan

III. Words with the morphemes *ka* and *ga*

- | | | |
|-----|----------------------|---------------------|
| (1) | <u>na</u> gàhàdlùk | 'will each tidy up' |
| (2) | <u>gi</u> nàpústàn | 'wrap' |
| (3) | <u>na</u> gàpànbùn | 'go soaping' |
| (4) | <u>ka</u> gàstahúnàn | 'expenditures' |

IV. Other cases

- | | | |
|-----|-----------|-------------|
| (1) | pítù | 'whistle' |
| (2) | súyùd | 'lice comb' |
| (3) | balíbàd | 'refuse' |
| (4) | piligrúsù | 'dangerous' |

Some morphemes are marked in underlying representation with a Line-1 accent.

Unbounded feet

Selkup

- | | | |
|-----|--------------|--------------------|
| (1) | kipó: | 'tiny' |
| (2) | qó:kítìʸ | 'deaf' |
| (3) | ilisó:mít | 'we lived' |
| (4) | úŋŋinti | 'wolverine' |
| (5) | qúm̄m̄i | 'my friend' |
| (6) | qum̄m̄í: | 'our friend' |
| (7) | qum̄o:qlilí: | 'your two friends' |
| (8) | u:có:mít | 'we work' |



Samoyedic (Uralic) language spoken in western Siberia. It is spoken by 1640 out of a total ethnic population of 4249.

Project syllable heads onto baseline.
 Accent long vowels.
 Construct Stress Line 1 by building unbounded left-headed feet.
 Construct Stress Line 2 by making the word right-headed.
 Conflate lines 1 and 2.

Metrical grids before Line Conflation:

*	Stress Line 2	*	Stress Line 2
(*)	Stress Line 1	(* *)	Stress Line 1
(* * *)	Baseline	(* *)(* *)	Baseline
ü ŋj i nti		i l i s ɔ : m i t	

