

# Word Stress

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Phonologie:Optimalitätstheorie – WS 2005/2006




# Four cross-linguistic preferences (Kager, 1999)

- The culminative property
- The demarcative property
- The rhythmic property
- Quantity-Sensitivity

# The culminative property

$\sigma_1$	$\sigma_2$	$\sigma_3$
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<b>Sie</b>	ben	stein
Fo	<b>re</b>	lle
a	rro	<b>gant</b>

	a	rro	gant
	<b>a</b>	rro	<b>gant</b>
	<b>a</b>	<b>rro</b>	<b>gant</b>

# The demarcative property

Crosslinguistically, stress tends to occur close to constituent boundaries:

<b>initial:</b>	pu.liŋ.ka.la.t̪u	'(we) sat on the hill'	Pintupi
<b>prefinal:</b>	ya.pu.ru.ki.ta.ne.ha.se	'verily to climb'	Warao
<b>final:</b>	a.kʊ.ne.te.pal	'times'	Weri

## Common Explanation:

Stress helps to identify boundaries in speech

# The rhythmic property

## Hungarian

<b>bol</b> .dog	‘happy’		<b>bol</b> .dog. <b>ság</b>	‘happiness’
<b>bol</b> .dog. <b>ta</b> .lan	‘unhappy’		<b>bol</b> .dog. <b>ta</b> .lan. <b>ság</b>	‘unhappiness’

## Warao

<b>ya</b> .pu. <b>ru</b> .ki. <b>ta</b> .ne. <b>ha</b> .se		e. <b>na</b> .ho. <b>ro</b> .a. <b>ha</b> .ku. <b>ta</b> .i
‘verily to climb’		one who caused him to eat’

# Quantity-Sensitivity

## heavy penultimate

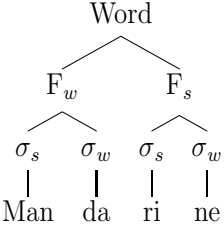
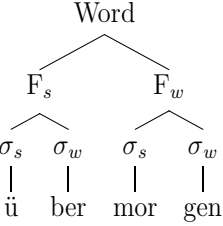
- |    |                    |               |
|----|--------------------|---------------|
| a. | ga. <b>rii</b> .da | 'newspaper'   |
|    | fa. <b>kaa</b> .ha | 'humor'       |
| b. | bi. <b>sil</b> .la | 'green peas'  |
|    | za. <b>kit</b> .ta | 'jacket'      |
| c. | fa. <b>sul</b> .ya | 'green beans' |
|    | ga. <b>wan</b> .ti | 'gloves'      |

## light penultimate

- |                  |           |
|------------------|-----------|
| <b>?i</b> .na.ba | 'a grape' |
| <b>?a</b> .ra.bi | 'Arabic'  |
| <b>za</b> .la.ta | 'stone'   |

Cairene Arabic (Morén, 1999:4-5)

# Representing Word Stress

SPE Chomsky & Halle (1968)	1 2 Mandarine	2 1 übermorgen
The Metrical Grid Liberman (1975)	<p style="text-align: center;">*</p> <p style="text-align: center;">*     *</p> <p style="text-align: center;">*   *   *   *</p> Man.da.ri.ne	<p style="text-align: center;">*</p> <p style="text-align: center;">*           *</p> <p style="text-align: center;">*   *   *   *</p> ü.ber.mor.gen
Prosodic Trees Selkirk (1980)	<p style="text-align: center;">Word</p>  <p style="text-align: center;">Man   da   ri   ne</p>	<p style="text-align: center;">Word</p>  <p style="text-align: center;">ü   ber   mor   gen</p>