

Phonation types

Rogers Chapter 12

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Larynx- background

- We've talked about 4 states of larynx
 - Breathing
 - Aspiration/h-frication
 - Modal voicing
 - Glottal stop
- There are 2 more...
 - Murmur (Breathy voice)
 - Creaky voice (glottal fry, laryngealized voice)

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Main tasks...

- Learn to recognize (pretty easy)
- Learn transcription (trivial)
 - Diacritics added to symbol for any voiced sounds
 - Murmur add \cdot under symbol
 - $\underset{\cdot}{b}$ $\underset{\cdot}{a}$
 - Creak add \sim under symbol
 - $\underset{\sim}{b}$ $\underset{\sim}{a}$

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Transcription testing

- Only a small amount of live transcription testing on quiz 4 or 5 (stay tuned)
- Will focus on 'phonation types' and keep other exotics at bay.
- Similarly for other exotic sounds...
 - Will focus on subsets
- Won't count for much, but we should do a little

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Overview of larynx

- Good to have an appreciation of complexity of the laryngeal system
- More detail than you'll need to learn
 - Will summarize key points later

Graphic unavailable,
See also Rogers. Fig 12.8 P 238

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Pix Larynx Overview
Graphics unavailable

Clark-Mannell website with movies

- See Rogers Chapter 8 and “Larynx Links” link on the 205 web page.
- You are not responsible for the anatomy of the larynx.

Fiberoptic movies of the larynx and velum

Fibrescopic Examination of the Larynx and Velum

John Clark and Robert Mannell, MacQuarie University

<http://www.ling.mq.edu.au/speech/physiology/movies/fibroscope/index.html>

Another site (Marseilles France)

Very high quality but low speed video.

<http://www.orl-marseille.com/soins/laryngologie.htm>

Home page of institute <http://www.orl-marseille.com/>
(very nice picture of Marseilles)

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Schematic drawings of modal and breathy voice
from Rogers Fig 12.7 and 12.12

Graphic unavailable

Note on transcription

- Creaky voice (glottal fry) indicated by wavy underscore of a voiced symbol (consonant or vowel)
 - E.g. [b̤o] [a̤ da]
- Breathy voice (murmur) indicated by two dots under voiced symbol
 - E.g. [b̥o] [ḁ da]

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Real language examples

Peter Ladefoged, UCLA
VOT, Phonation types and other phenomena in various languages
<http://hctv.humnet.ucla.edu/departments/linguistics/VowelsandConsonants/index/sounds.html> - Anchor-VOT-3800

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