VOWELS

The acoustic quality of the vowels depend on the shape and size of the vocal tract.

ARTICULATORY DIMENSIONS

1. HEIGHT: VERTICAL DIMENSION

The movement of the lower jaw; the movement of the tongue.

2. FRONTNESS: HORIZONTAL DIMENSION

The arching of the tongue toward the front, centre and back of the oral cavity.

3. **LIP-ROUNDING:**

rounded neutral spread

4. TONGUE ROOT POSITION:

The root position (forward or back) changes the size of the pharynx.

5. **VELIC MOVEMENT**:

If the velum is lowered, a nasal quality is present.

SIMPLE VOWELS (=monophthongs) in Canadian English:

[i]beat [u]boot [I]bit [ប] book [3] *bet* $[\Lambda]$ c<u>u</u>t [a][a] bat p<u>o</u>t

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DIPHTHONGS:

Vowels that exhibit a change in quality within a single syllable.

In the transcription the starting and finishing points are indicated.

The second member of the diphthong (= finishing point) is at most times (but not always!) a glide.

Canadian diphthongs:

[aj] $b\underline{u}\underline{y}$, $m\underline{y}$

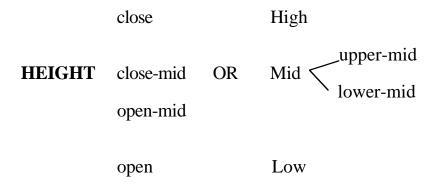
[ow] $n\underline{o}, b\underline{o}ne$

[ej] $m\underline{a}ke$, $t\underline{a}ke$

[aw] cow, renown

[\mathfrak{j}] $b\underline{oy}, \underline{joy}$

Note with regard to terminology:





THE SCHWA

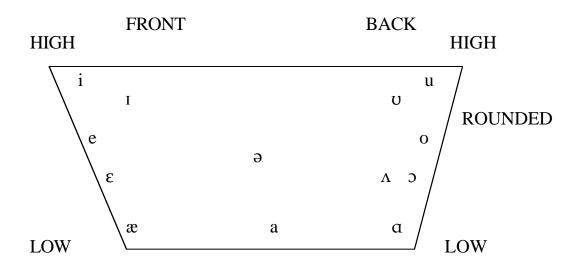
[ə] mid-central unrounded vowel (schwa)

Articulation: At the mid-point both in terms of height and frontness; the tongue is at the rest position.

<u>a</u>bout [ə]

nat<u>io</u>n [ə]

SUMMARY OF CANADIAN ENGLISH VOWELS:



- [A] back, open-mid (lower-mid), unrounded vowel
- [3] back, open-mid (lower-mid), rounded vowel

NOTE: Many speakers have $[\Lambda]$ with advanced articulation, that is almost central $[\Lambda]$

Check your articulation!

RHOTIC VOWELS

Vowels having an r-like quality: r-coloured vowels

$$\begin{array}{c} \text{bird} \\ \text{Sir} \\ \text{fur} \end{array} \right\} \ [\text{a}] \ \rightarrow \ \ \begin{array}{c} \text{SCHWAR} \\ \downarrow \\ \text{central rhotic vowel} \end{array}$$

RHOTIC VOWEL ARTICULATION:

Retraction of the tongue root: ALWAYS PRESENT!

lard $[\tilde{a}]$

normal $[\tilde{\alpha}]$ or $[\tilde{\beta}]$

RHOTIC DIPHTHONGS: The second member of the diphthong is a schwar.

fear [iə:]
poor [uə:]

VOWEL + RHOTIC APPROXIMANT = RHOTIC VOWEL

TENSENESS

TENSE VOWELS are produced with a general tension of the speech muscles.

LAX VOWELS are produced with a more relaxed speech muscle movement.

The terms **TENSE/LAX** do not capture significant phonetic differences.

TENSENESS/LAXNESS have to be interpreted as a complex of articulatory characteristics.

- 1. **TONGUE ROOT POSITION**: In the articulation of tense vowels the root moves more forward -- advanced tongue root (ATR).
- 2. **LIP POSITION**: Tense vowels are more rounded, or the lips are more spread.
- 3. **TONGUE BODY POSITION**: Tense vowels are articulated with the tongue in a higher position.

Examples: