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] *b<u>ea</u>t*

[u] *b<u>oo</u>t*

[I] $b\underline{i}t$

[υ] $b\underline{oo}k$

 $[\varepsilon]$ $b\underline{e}t$

 $[\Lambda]$ $c\underline{u}t$

[æ] $b\underline{a}t$

[a] *p<u>o</u>t*

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

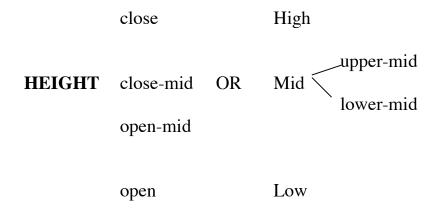
[ow] $n_{\underline{o}}, b_{\underline{o}}ne$

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

[aw] $c\underline{ow}$, $ren\underline{ow}n$

 $[\mathfrak{j}]$ $b\underline{\mathfrak{o}\mathfrak{y}},\underline{\mathfrak{j}\mathfrak{o}\mathfrak{y}}$

Note with regard to terminology:



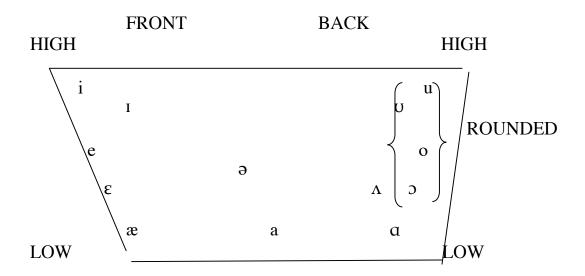


THE SCHWA

[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.

SUMMARY OF CANADIAN ENGLISH VOWELS:



- $[\Lambda] \quad back, open-mid \ (lower-mid), unrounded \ vowel$
- [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

$$\frac{\text{bird}}{\text{Sir}} \left. \left\{ [\mathfrak{F}] \right\} \right. \rightarrow \quad \text{SCHWAR} \\
\left. \left\{ [\mathfrak{F}] \right\} \right. \rightarrow \quad \text{central rhotic vowel}$$

RHOTIC VOWEL ARTICULATION:

Retraction of the front of the tongue may be present Bunching up the back of the tongue

Retraction of the tongue root: ALWAYS PRESENT!

lard $[\tilde{a}]$

normal $[\tilde{a}]$ or $[\tilde{s}]$

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

f<u>ea</u>r [iəː] p<u>oo</u>r [uəː]

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: