

# LINGUISTICS An Introduction

**Board of Editors** 

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Consonants

V

CAL

| Conso        | 1100 1000     | 1  |
|--------------|---------------|--|
|              | ·····         | pea, pet, pole   |
| (p)          | -             | boat, bell, bat  |
| /b/          |               | ten, tell, tea   |
| /t/          |               | <u>d</u> og, <u>d</u> octor, <u>d</u> oor              |
| /d/          | Landa get     | car, <u>k</u> ettle, <u>ch</u> aracter                 |
| / <b>k</b> / | ~~~~          | go,gold, get   |
| /g/          |               | 0 0  |
| / <b>f</b> / |               | <u>f</u> ly, <u>f</u> eather, <u>f</u> un              |
| /v/          | >             | <u>v</u> ideo, <u>v</u> an, <u>v</u> ine               |
| /θ/          |               | <u>th</u> ink, <u>th</u> under, <u>th</u> row          |
| /ð/          | $\rightarrow$ | <u>th</u> is, <u>th</u> at, <u>th</u> em               |
| /s/          | $\rightarrow$ | <u>s</u> ee, <u>s</u> ell, <u>s</u> oap                |
| /z/          | $\rightarrow$ | <u>z</u> oo, <u>z</u> ebra, <u>z</u> one               |
| /ʃ/          | $\rightarrow$ | <u>sh</u> all, <u>sh</u> oe, <u>sh</u> ame             |
| /3/          | $\rightarrow$ | vi <u>si</u> on, mea <u>su</u> re, televi <u>si</u> on |
| /h/          | $\rightarrow$ | <u>h</u> at, <u>h</u> ello, <u>h</u> air               |
| /t∫/         | $\rightarrow$ | <u>ch</u> ain, <u>ch</u> eese                          |
| /d3/         |               | june, jet, joker                                       |
| /m/          | $\rightarrow$ | <u>m</u> an, <u>m</u> ore, <u>m</u> ake                |
| /n/          | $\rightarrow$ | <u>n</u> ow, <u>n</u> ew, <u>n</u> ever                |
| /ŋ/          | >             | si <u>ng</u> , so <u>ng</u> , thi <u>ng</u>            |
| /1/          | $\rightarrow$ | <u>l</u> ove, <u>l</u> abour, <u>l</u> ost             |
| /r/          | $\rightarrow$ | <u>r</u> ed, <u>r</u> ose, <u>r</u> ope                |
| /j/          | $\rightarrow$ | yes, yellow, yesterday                                 |
| /w/          | >             | <u>w</u> et, <u>w</u> atch, <u>w</u> ell               |
|              |               |  |

Phonetics and Phonology = 7

#### **Pure Vowels**

| /i:/         | ->            | sh <u>ee</u> p. r <u>ea</u> p. d <u>ee</u> p |
|--------------|---------------|--|
| /1/          | $\rightarrow$ | ship, sit, fit                               |
| 101          |               | g <u>oo</u> d, f <u>u</u> ll, f <u>oo</u> t  |
| /u:/         | ->            | sh <u>oo</u> t, p <u>oo</u> l, c <u>oo</u> l |
| /e/          | ->            | b <u>e</u> d, t <u>e</u> n, p <u>e</u> n     |
| /ə/          | ->            | teach <u>er</u> , feath <u>er, a</u> bout    |
| /3:/         | $\rightarrow$ | b <u>ir</u> d, c <u>ur</u> d, d <u>ir</u> ty |
| /5:/         |               | s <u>aw</u> , fl <u>aw</u> , c <u>a</u> ll   |
| /æ/          | $\rightarrow$ | c <u>a</u> t, f <u>a</u> t, r <u>a</u> t     |
| / <u>N</u> / | ->            | c <u>u</u> p, b <u>u</u> s, m <u>u</u> ch    |
| /a:/         | $\rightarrow$ | f <u>a</u> r, c <u>a</u> r, f <u>a</u> ther  |
| /ø/          | $\rightarrow$ | <u>go</u> t, f <u>ou</u> ght, <u>o</u> n     |
|              |               |  |

### Diphthongs

| /19/ | h <u>ere</u> , f <u>ear</u> , n <u>ear</u>      |
|------|---|
| /e1/ | w <u>ai</u> t, str <u>ai</u> ght, l <u>a</u> te |
| /uə/ | p <u>ure</u> , s <u>ure</u> , c <u>ure</u>      |
| /JI/ | b <u>oy</u> , t <u>oy</u> , j <u>oy</u>         |
| /eu/ | sh <u>ow</u> , sl <u>ow</u> , <u>go</u>         |
| /eə/ | h <u>ai</u> r, b <u>are,</u> c <u>are</u>       |
| /aɪ/ | mỵ, flỵ, d <u>ie</u>                            |
| /au/ | c <u>ow</u> , b <u>ow</u> , n <u>ow</u>         |
|      |   |

#### Articulators

In phonetic terms, the process of 'production' of sounds is known as articulation. The organs which participate in the production of sounds are known as articulators. The articulators that move or are moved while producing a sound are known as active articulators. Generally, for production of most sounds, the tongue is the active articulator. The organs which remain stationary during the production of sounds are known as **passive articulators**. The various regions or points in the oral

|              |                          |   |          |   |                 | P | lace o          | f Ar  | ticulati | on  |                     | and a designed of |              |              |          | -           |
|--------------|--------------------------|---|----------|---|-----------------|---|-----------------|-------|----------|-----|---------------------|-------------------|--------------|--------------|----------|-------------|
|              |                          |   | Bilabial |   | Labio<br>dental |   | Inter<br>dental |       | Alveolar |     | veo-<br>atal        | Palatal           | Velar        |              | Glottal  |             |
| Articulation | Stop                     | р | Ъ        |   | 100             | - |                 | t     | d        | 103 |                     |                   | k            | g            | 2        |             |
| licu         | Fricative                |   |          | f | v               | θ | ð               | \$    | Z        | ſ   | 3                   | 1000              |              | 3            | h        |             |
|              | Affricate                |   |          |   |                 |   |                 |       |          | tſ  | d3                  |                   |              |              |          |             |
| 10           | Nasal                    |   | m        |   |                 |   |                 |       | n        | 3   |                     |                   |              | n            |          | 3           |
| Manner       | Lateral<br>Approximant   |   |          |   |                 |   |                 |       | 1        |     |                     |                   |              | *            |          |             |
| 2            | Retroflex<br>Approximant |   |          |   |                 |   |                 |       | I        |     |                     |                   |              |              |          | * · · · · · |
|              | Glide                    | M | w        |   |                 |   |                 |       |          |     |                     | j.                |              | <u>.</u>     |          |             |
|              |                          | - |          |   |                 | S | tate o          | f the | Glotti   | 3   | www.thicologicional | A                 | (freesenses) | accaciilinad | <b>M</b> | uðtikur     |
| 1            | voiceless                |   |          |   |                 |   |                 |       | Voiced   |     |                     | e de              |              |              |          |             |

Figure 2. IPA Chart of Consonants in English

#### Vowels

The speech sounds that are produced without any obstruction to the air passage in the vocal tract are called **vowels**. Hence, the air pressure is not built-up at any point above the glottis. During articulation, the airstream vibrates due to the movement of vocal cords and the vocal tract acts as the resonating chamber. Thus, vowels are usually voiced sounds in all languages. Also, they have the most resonance during production and therefore, have the highest sonority. During vowel articulation, the cavities located above the glottis are merely resonating chambers. The shape of these cavities can be modified by the different positions of the tongue and shape of the lips. This results in directing the outgoing airstream in a definite manner.

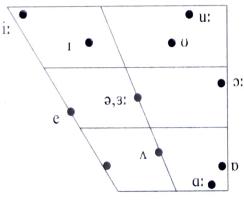


Figure 3. IPA Vowel Chart