



Vowels are sounds in which there is no obstruction to the flow of air as it passes from the larynx to the lips.



Introduction

1.Consonants are produced with the airstream constructed at some point in the vocal tract, while vowels are produced with no obstruction.



Introduction

2.The distribution of vowels and consonants is different in a language. The study of distribution of sounds is the study of the different contexts and positions in which particular sounds can occur. (*Phonology*)

Example

The [h] sound is considered a consonant in English because of its distribution.

hen, hint, high

The Description of Vowels

 We can classify vowels according to their tongue height and their frontness and backness.
 We can also classify them according to the shape of the lip.

The Description of Vowels

1. The shape and position of the tongue:a. The vertical distance between the upper surface of the tongue and the palate (open and close)







b. The horizontal distance between the front and back of the tongue which is raised highest.







Example

The sound [i:] as in *see* is a close vowel.

The sound [æ] as in *cat* is an open vowel.



Example

The difference between [i:] and [æ] is a difference in the tongue's hight. In making the vowels [i:] and [æ], the front part of the tongue that is raised. We would therefore describe **[i:]** and **[æ]** as front vowels.

Continue

By changing the *shape of the tongue*, we can produce vowels in which a different part of the tongue is the highest point.

A vowel in which the back of the tongue is the highest point is called a back vowel.

Example

- 1. The vowel [a:] as in *calm*.
- 2. The vowel [U:] as in *too*.
- The difference between [a:] and [u:] is that [a:] is an open vowel, whereas [u:] is close.



Continue

2. The shape of the lips:

Although the lips can have many different shapes and positions, we will consider only three possibilities: 1. rounded 2. spread **3. neutral**



Variables in Vowel Quality

1. Rounded: where the corner of the lips are brought towards each other and the lips pushed forwards as in [u].



Variables in Vowel Quality

Vowels

2. Spread: with the corner of the lips moved away from each other, as for a smile. It is seen in the vowel [i].



Variables in Vowel Quality

3. Neutral: where the lips are noticeably rounded or spread. The noise most **English people make when** they are hesitating has a nutral lip position as [**ə**].



Cardinal Vowels

The cardinal vowels are a standard reference system used to describe vowels in any language.

Vowel Quadrilateral







1. I as in bit, pin, fish is a close front vowel. The lips are slightly spread.



2. [e] as in men, bet, yes is a front openmid vowel. The lips are slightly spread.



3. [æ] as in bat, man, gas is a front open vowel. The lips are slightly spread.



4. [**^**] as in but, some, rush is a central open vowel. The lips are neutral.



5. [*p*] as in

pot, gone, cross
is a back
open-mid vowel.
T h e lips are
slightly rounded.



6. [**U**] as in pull, put, push is a *central* open vowel. The lips are rounded.



7. [Ə] called (schwa) as in oppose, about, perhaps is a *central* close vowel.



1. [i:] as in

beat, meat, peace is a *close front vowel.* The lips are slightly spread.



2. [3:] as in

bird, fern, purse

is a *central*

mid-open vowel. The lips are neutral.



3. [*a*:] as in card, hall, pass is a *mid-back* open vowel. The lips are neutral.



4. [5:] as in
board, torn, horse
is a back
half-close vowel.
The lips are

strongly rounded.



Vowels

5. **[u**:] as in food, soon, loose is a back close vowel. The lips are moderately rounded.

