

CONSONANTS

Obstruents

Sonorants

Stops Fricatives Affricates Nasals Liquids Glides

Obstruents

Stops

complete closure of the articulators

oral ([d]) or nasal ([n])

Pulmonic egressive stops = plosives; the oral plosives can be voiced or voiceless

[t, d], [p, b], and [k, g] the most common plosives in languages.

Glottalic egressive = ejectives: [tʰ], [pʰ], [kʰ].

only voiceless ejectives are possible (since they are produced with the closed glottis).

Glottalic ingressive = implosives: [ɗ], [ʙ], [ɗ].

Most of the implosives are voiced (since for their production the glottis is narrowed). Voicelessness may be showed with a little circle underneath the segment: [ɗ̥] = voiceless bilabial implosive.

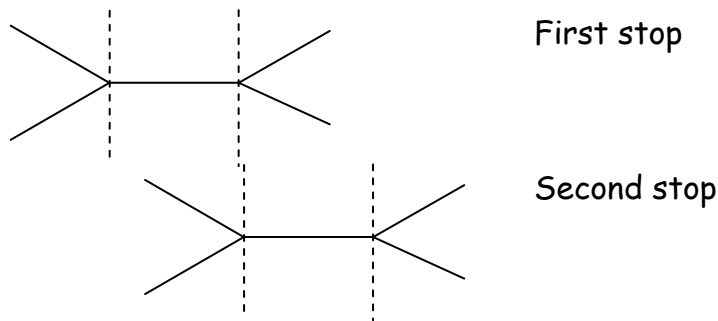
Velaric ingressive airstream = clicks (common in African languages). Clicks can be bilabial [ɘ], dental [ǀ], alveolar [ǃ] and alveolar lateral [ǁ]. There are no velar or pharyngeal clicks

because of the nature of these sounds: they are produced with participation of the velum. In other languages clicks can exist (and exist) in non-linguistic function (to express disapproval, to attract the horse's attention).

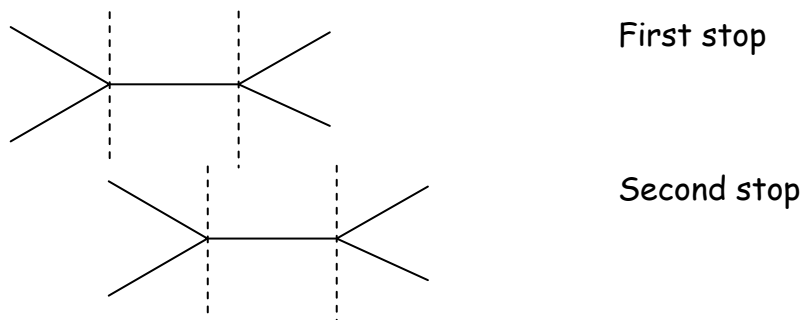
The articulation of any consonant involves **three stages**: **closing** (the active articulator raises to the passive one), **closure** (the articulators remain in contact), and **release**

If there is no closure, there is no stop. (The absence of the other two stages can be observed when a stop neighbours with a homorganic segment [t+d], d+n, etc.)

a) Non-overlapping stop sequences:



b) Overlapping stop sequences:



Release stage:

Voiceless plosives and aspiration.

Voicing lag; voicing lead

Voice Onset Time (VOT);

positive VOT

negative VOT

Phonetically, English distinguishes *voiced plosives*, *voiceless unaspirated plosives*, and *voiceless aspirated plosives*.

voiceless plosive + liquid or glide = devoicing liquid or glide:
'play', 'tree', 'cute'.

Fricatives

narrow passage between the articulators; the air passing through creates this friction.

voiced or voiceless.

English has: alveolar [s, z], labio-dental [f, v], dental [θ, ð], alveo-palatal [ʃ, ʒ], and glottal [h]. There is no voiced pair to [h], even though sometimes, depending on the voice quality of the person or on this person's emotional stage, we can here [ɦ]: 'behind'.

ϕ, β - Spanish

ç - German

x - Irish, Welsh English, German, Russian

ɣ - Byelorussian

ɦ - Ukrainian

Affricates

Affricates have the closing stage and the closure as the plosives, but the release is gradual, which creates a friction, and in this affricates are similar to the fricatives. English has [tʃ] and [dʒ], German has [pf], Quebecois French has [ts, dz].

Sonorants

Nasals

Nasals are nasalized plosives. The most common nasals are alveolar nasal stop [n] and bilabial nasal stop [m].

English [ŋ]

French [ɲ]

Liquids

laterals (l-sounds):

[l]

[ʎ] - palatal lateral (some dialects of Spanish, 'calle')

[ɭ] - velar lateral (an Australian language)

rhotics (r-sounds):

alveolar trill [r]

alveolar tap [ɾ]

alveolar continuant [ɹ]

retroflex [ɻ]

uvular roll [ʀ]

fricative [ʁ]

Variation of [r] in English:

- a. Rhotic accents (postvocalic [r], 'clear', 'chart', 'bird') - most American Englishes, Irish English, Scottish English.
- b. Non-rhotic accents (only a prevocalic [r]) - most varieties of British English, Australian English, South African English.

Linking 'r' vs. Intrusive 'r': 'bear is there' vs. 'idea [r] is clear'.

Glides

Articulatorily = vowels, but behave like consonants (cannot be the centre of a syllable).

[j], [w], [ɥ]