

EE599-020
Audio Signals and Systems

Speech Production

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Related Web Sites

Speech modeling is a very popular topic. Many web sites are devoted to education and research in this area. A general search of speech production, modeling, synthesis, analysis ... will turn up many interesting web sites. A few examples are given below:

<http://www.asel.udel.edu/speech/tutorials/production/index.html>

<http://www.haskins.yale.edu/haskins/HEADS/production.html>

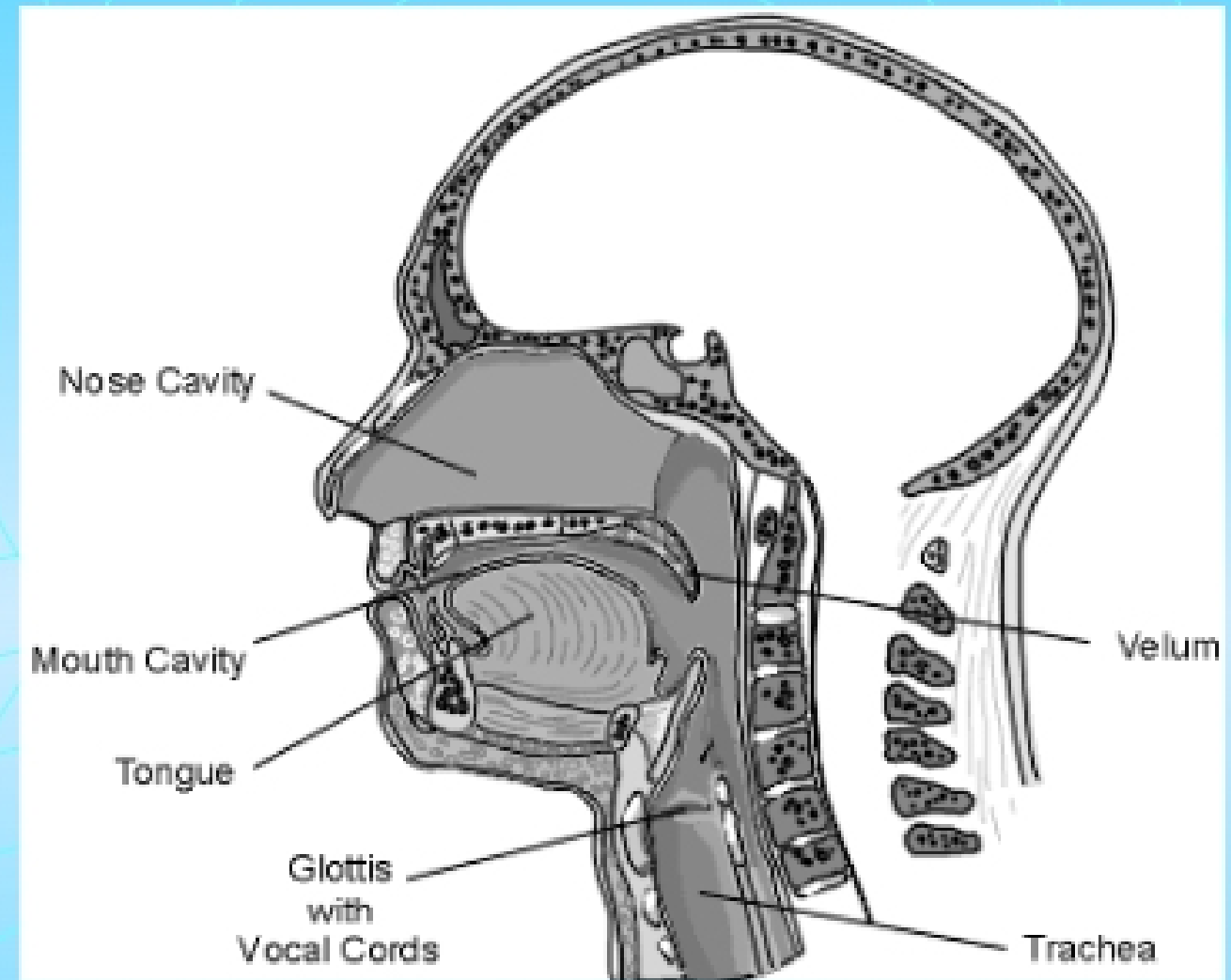
<http://www.kt.tu-cottbus.de/speech-analysis/>

Speech Generation

Speech can be divided into fundamental building blocks of sounds referred to as **phonemes**. All sounds results from turbulence through obstructed air flow

The vocal cords create quasi-periodic obstructions of air flow as a sound source at the base of the vocal tract. Phonemes associated with the vocal cord are referred to as **voiced speech**.

Single shot turbulence from obstructed air flow through the vocal tract is primarily generated by the teeth, tongue and lips. Phonemes associated with with non-periodic obstructed air flow are referred to as **unvoiced speech**.



Taken from <http://www.kt.tu-cottbus.de/speech-analysis/>