

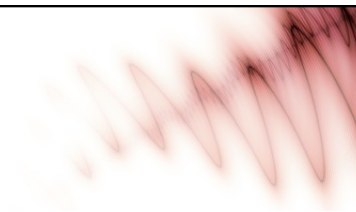
# INTRODUCTION TO COMPUTER MUSIC

## THE HUMAN VOICE

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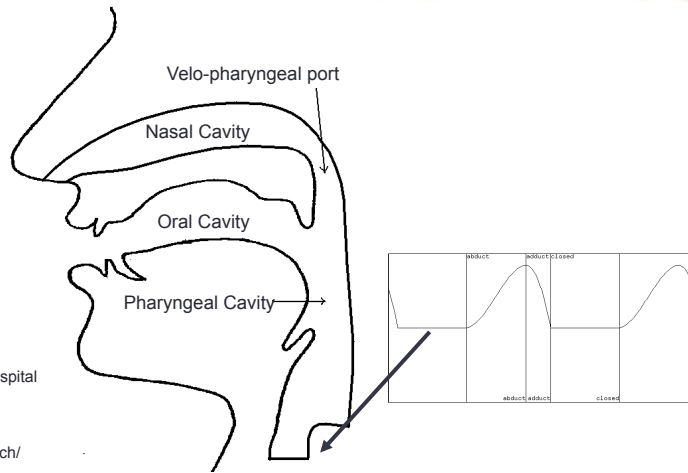
# INTRODUCTION

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## Source Filter Models

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## How The Voice Works



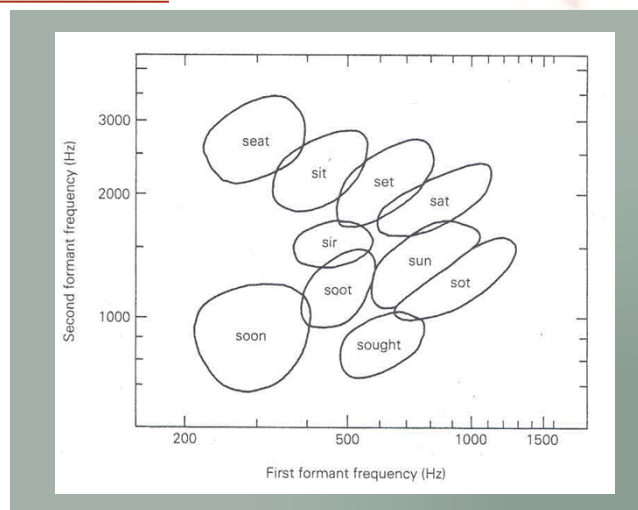
Images from: duPont Hospital for Children and the University of Delaware, *Speech Tutorials*, <http://www.asel.udel.edu/speech/tutorials>

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## Formants and Vowels



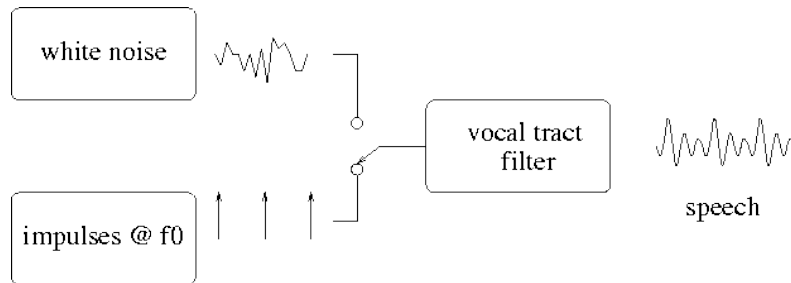
<http://www.phy.davidson.edu/fachome/dmb/digitalspeech/formantmap.gif>

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## Source-Filter Model



From Tony Robinson, *Speech Analysis*, <http://svr-www.eng.cam.ac.uk/~ajr/SA95/SpeechAnalysis.html>