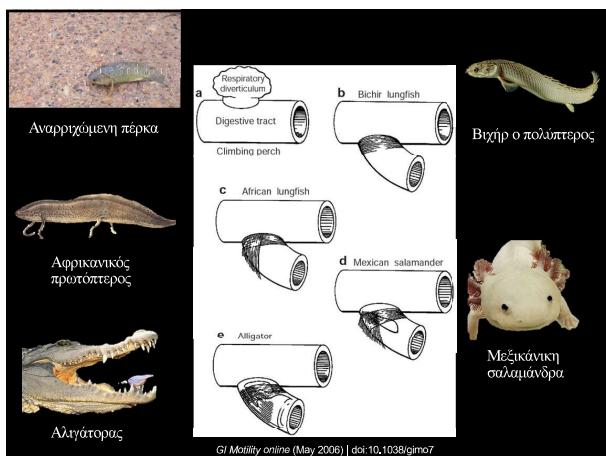


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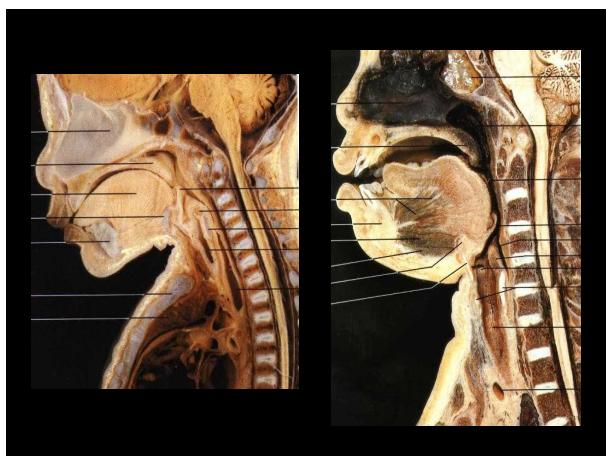
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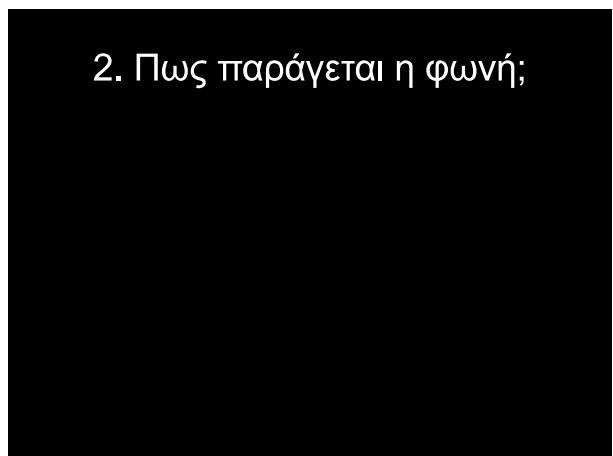
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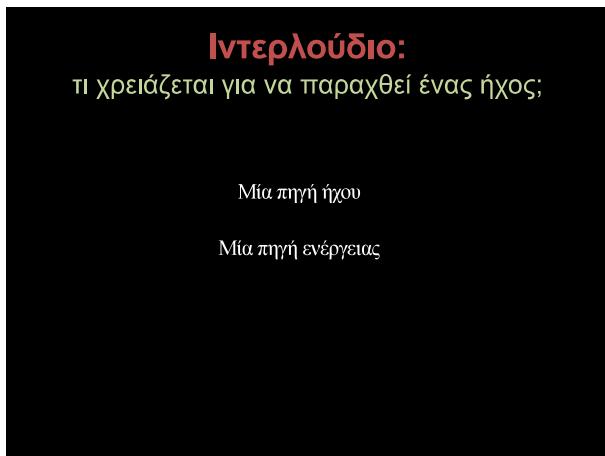
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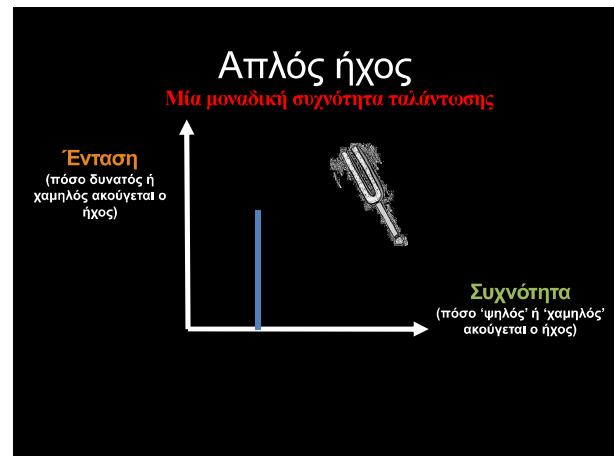
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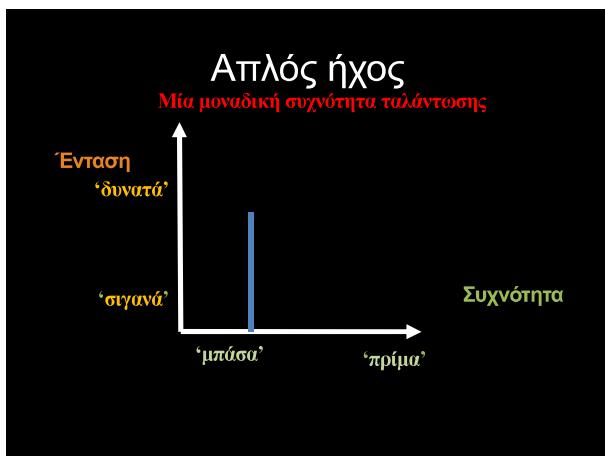
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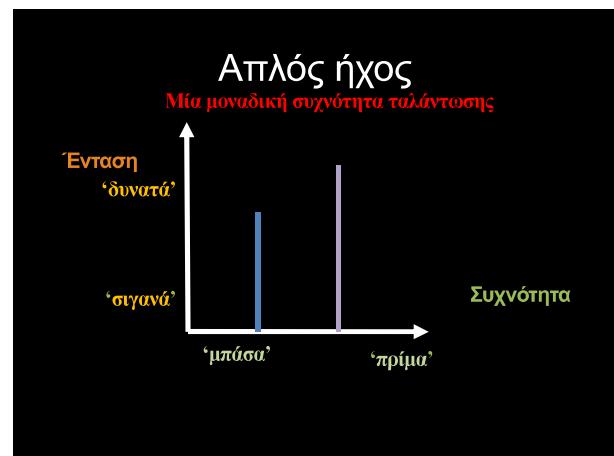
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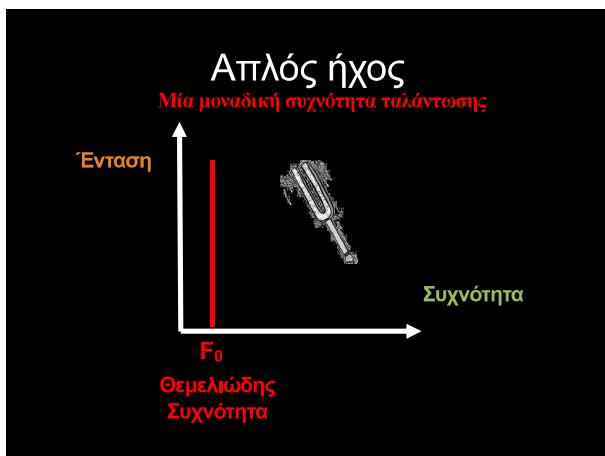
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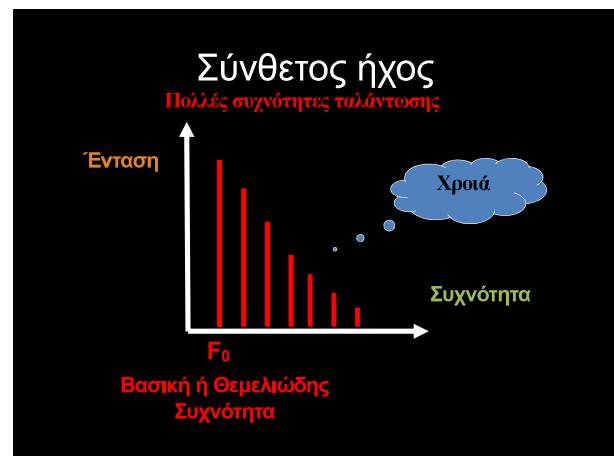
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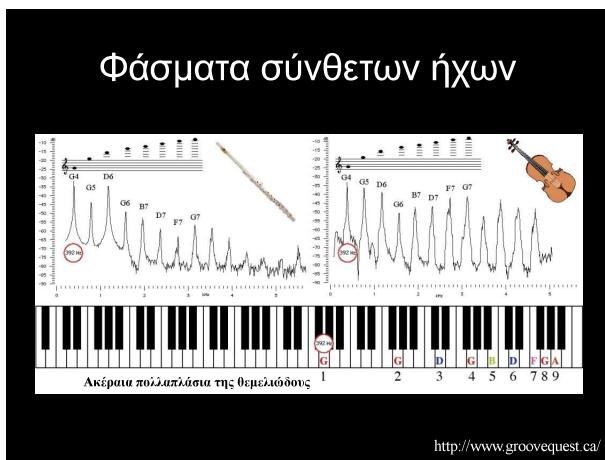
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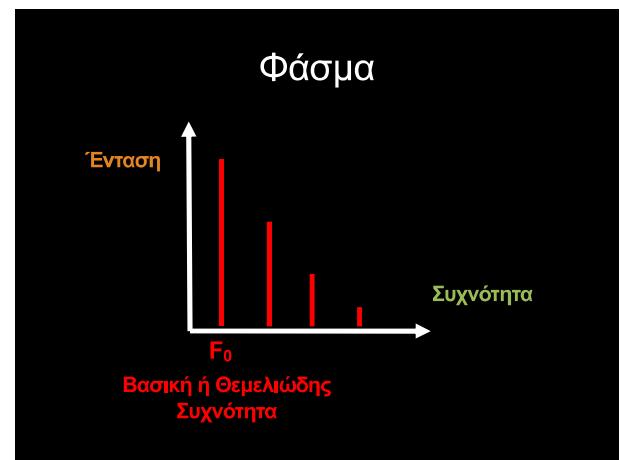
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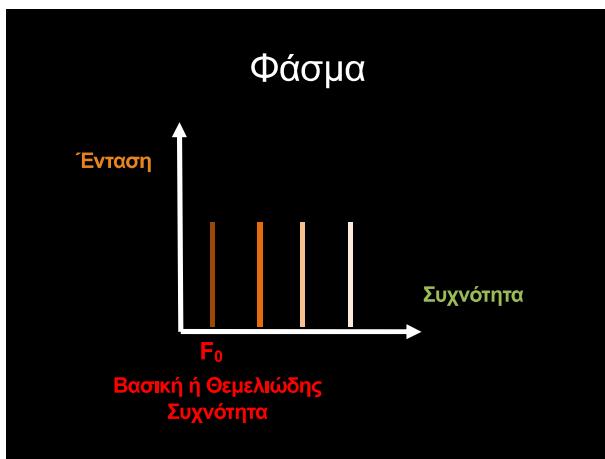
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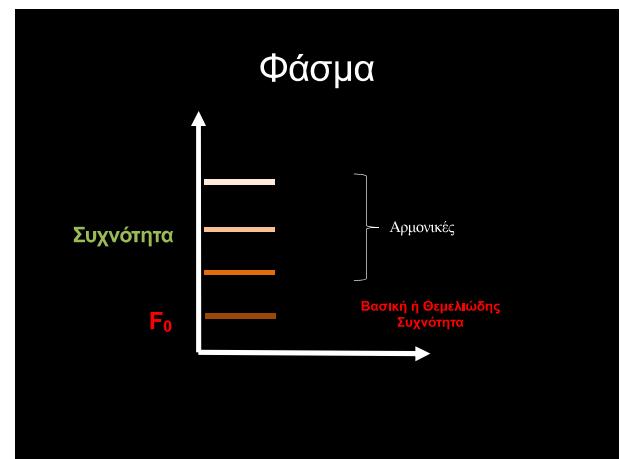
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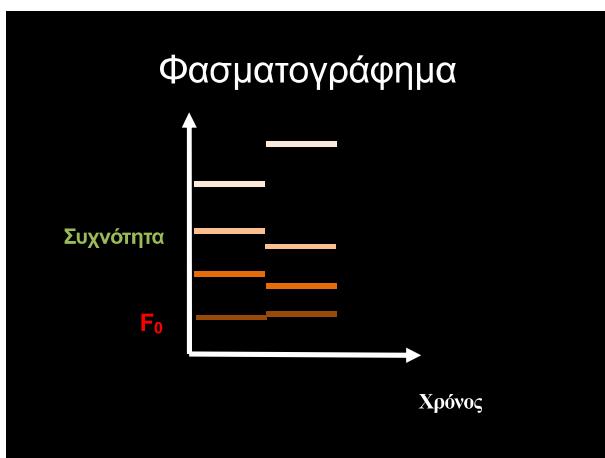
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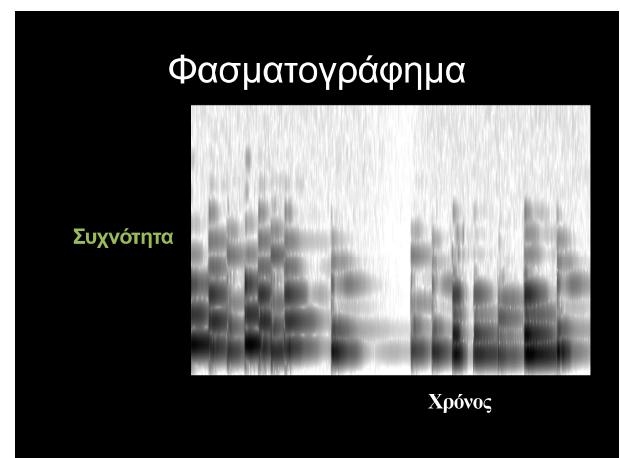
18



19



20



21

Παραγωγή και διαμόρφωση ήχου

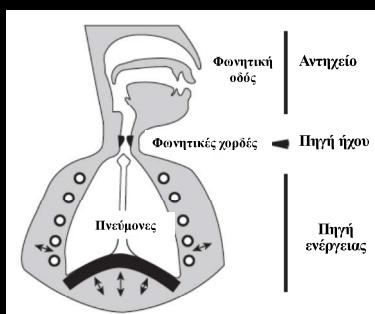
- Για να παραχθεί ένας ήχος χρειάζεται μία πηγή ήχου και μία πηγή ενέργειας
- Ένας ήχος μπορεί να διαμορφωθεί από ένα αντηχείο

22

2. Πως παράγεται η φωνή;

23

Το σύστημα της φώνησης



Howard, 2009

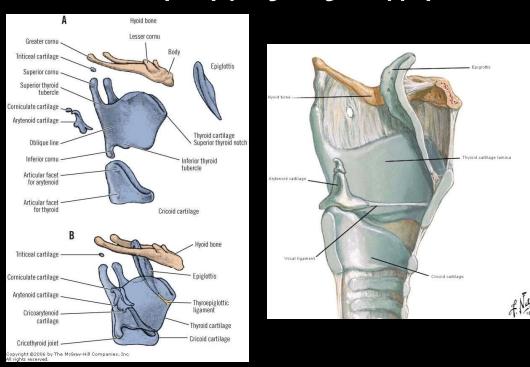
24

Ο λάρυγγας ως πηγή



25

Ο λάρυγγας ως πηγή

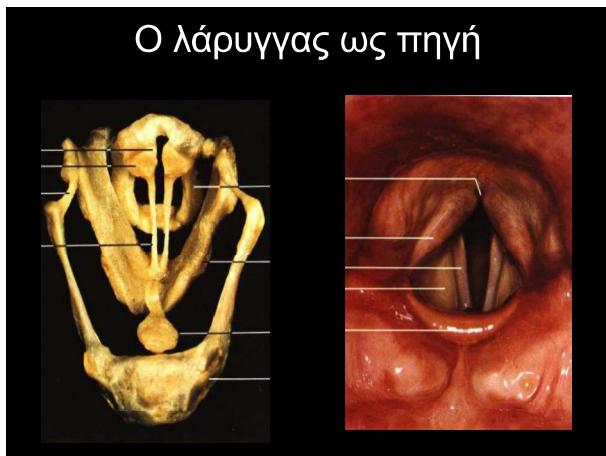


26

Ο λάρυγγας ως πηγή



27



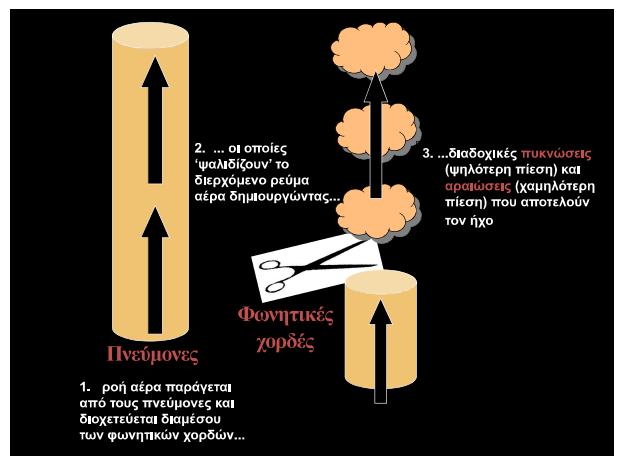
28



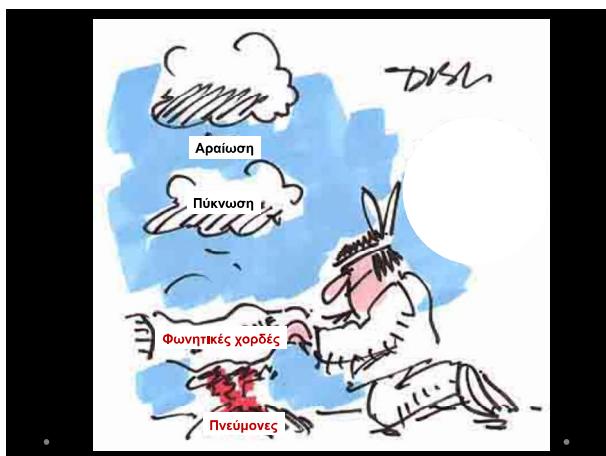
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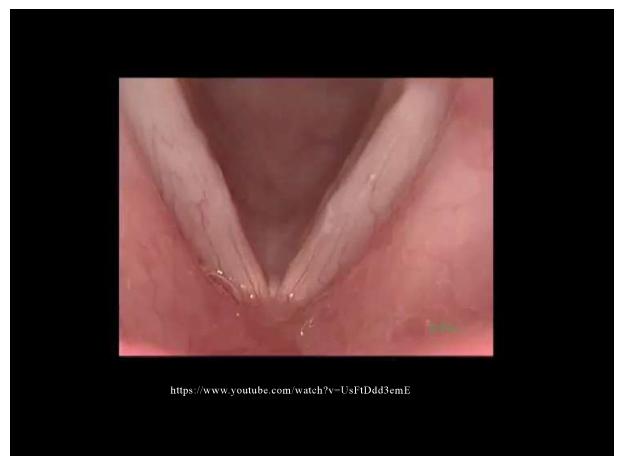
30



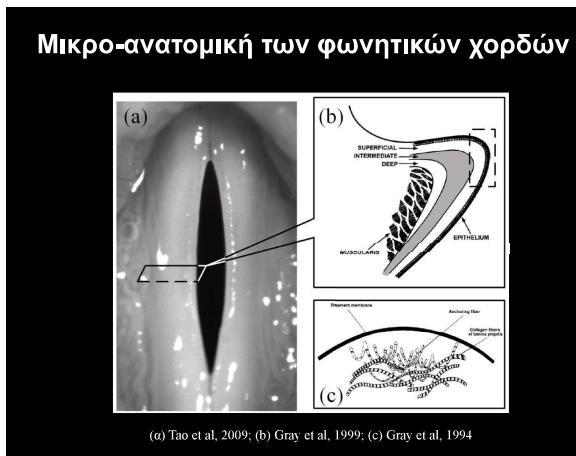
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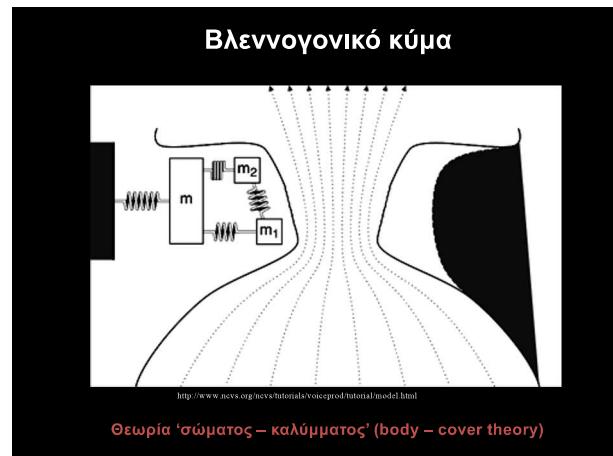
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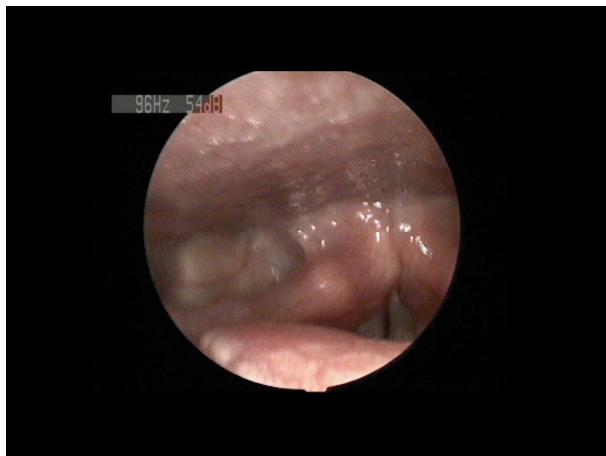
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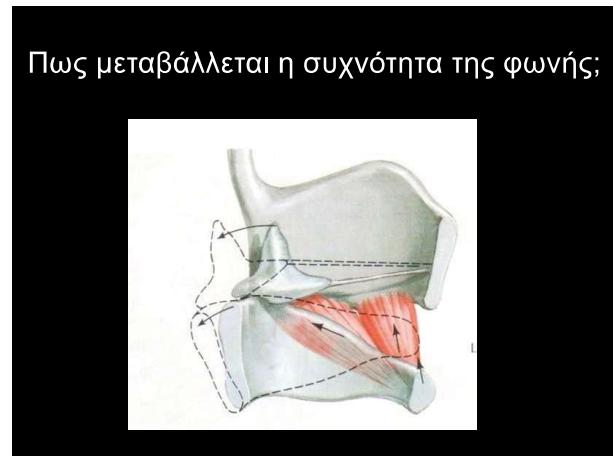
34



35



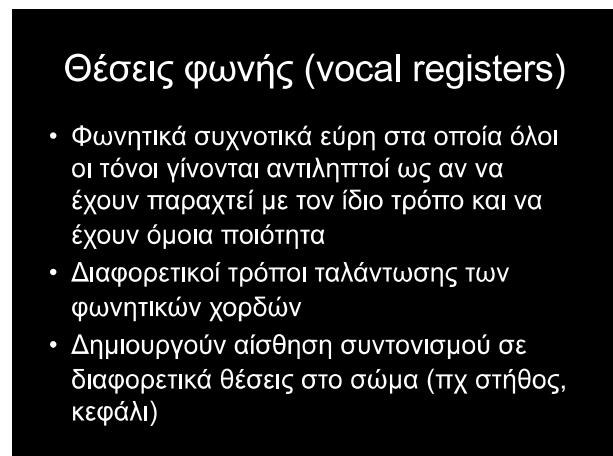
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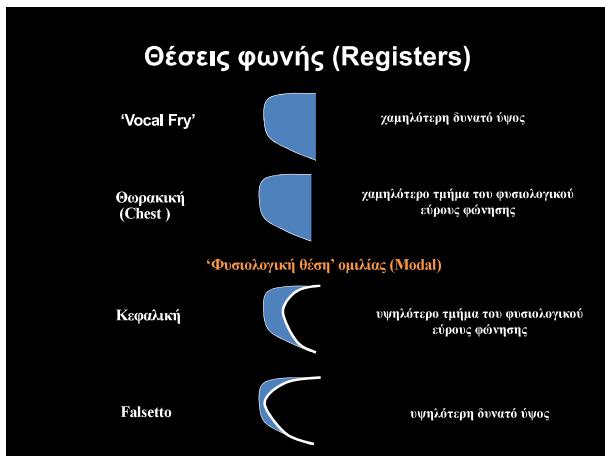
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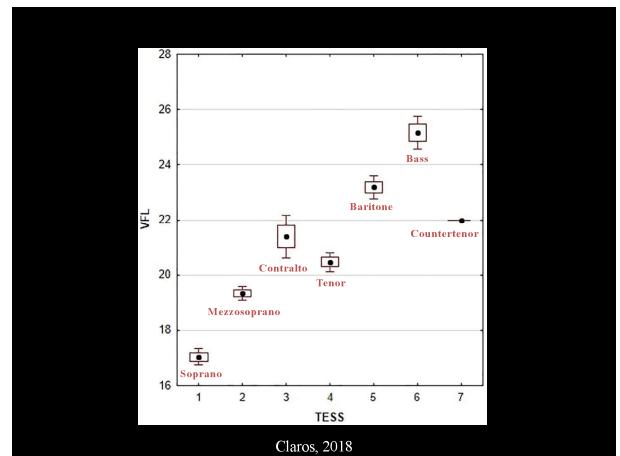
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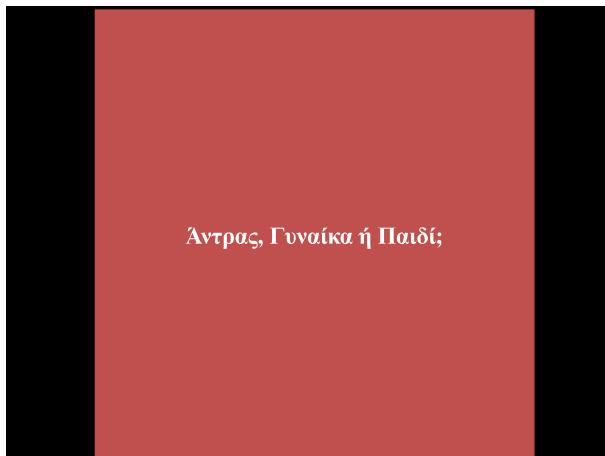
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40



41

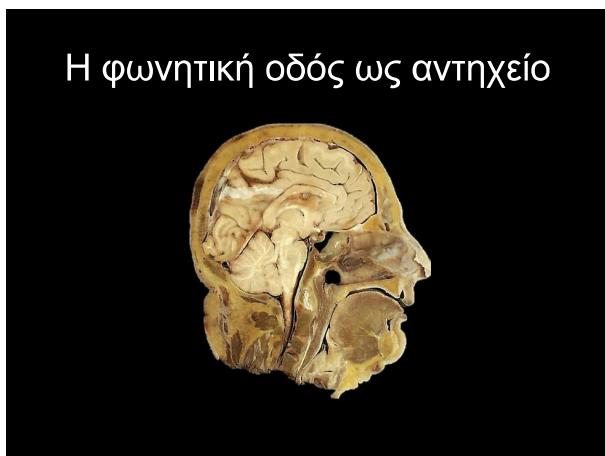


42

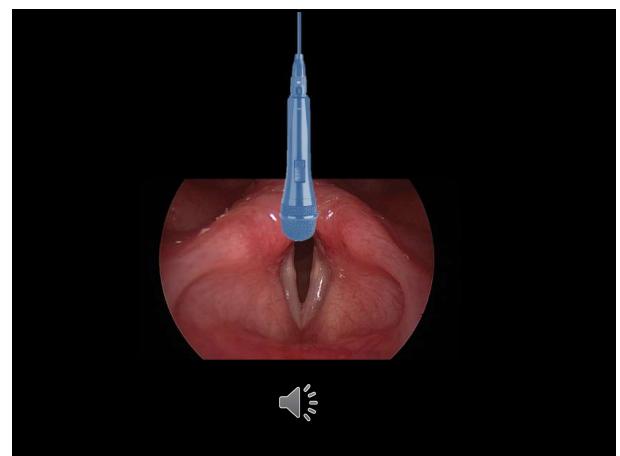
Ως εν πάσαις τις εικλησίες των γίων, αι γυναίκες ημών εν ταις εικλησίες σιγάτωσαν. ου γαρ επιτέτραπται αυτοῖς λαλείν, αλλ’ υποτάσσεσθαι, καθώς και ο νόμος λέγει

Προς Κορινθίους Επιστολές 14:34

43

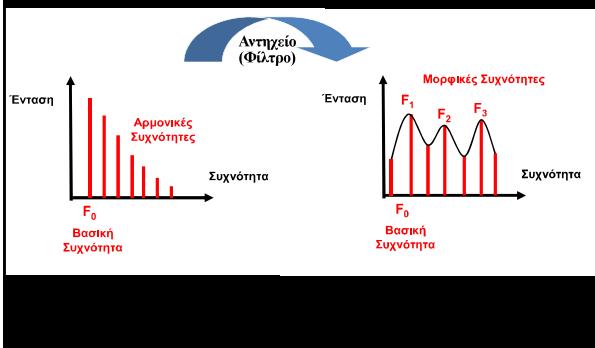


44



45

Μεταβολή του φάσματος από το αντηχείο



46



47



48

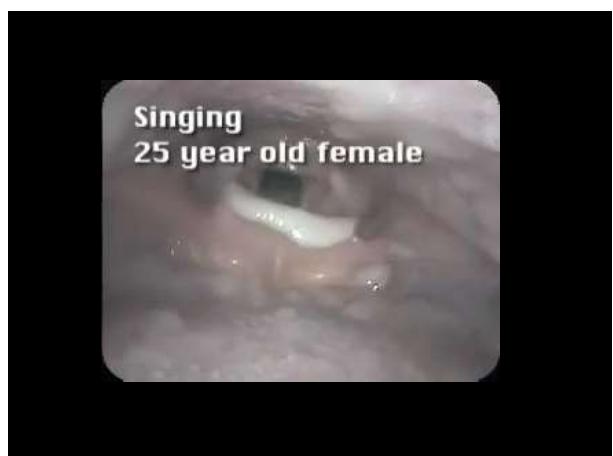
Πως μπορεί να ακουστεί μία σοπράνο 'πάνω' από την ορχήστρα;



50



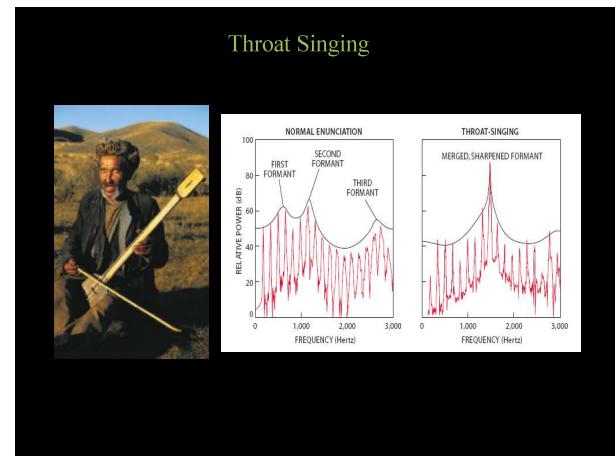
51



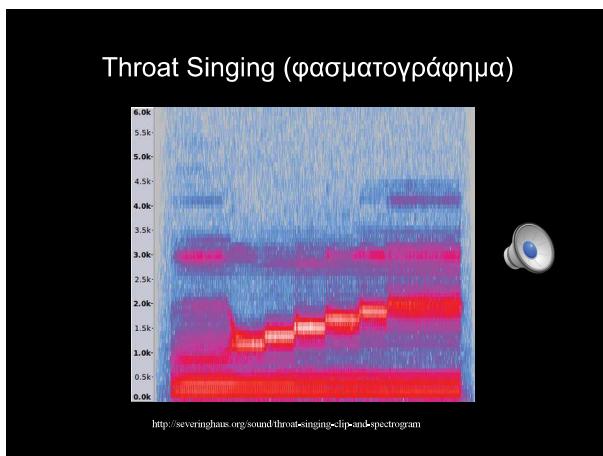
52



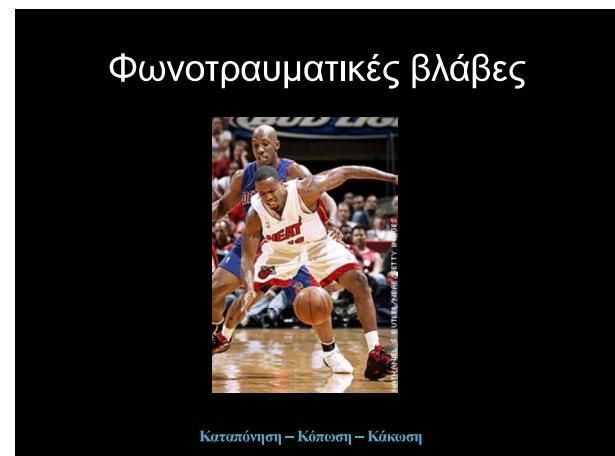
53



54



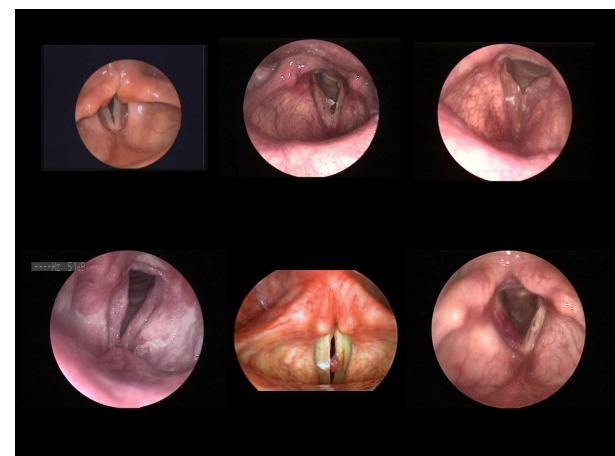
55



57



58



59



60



61