

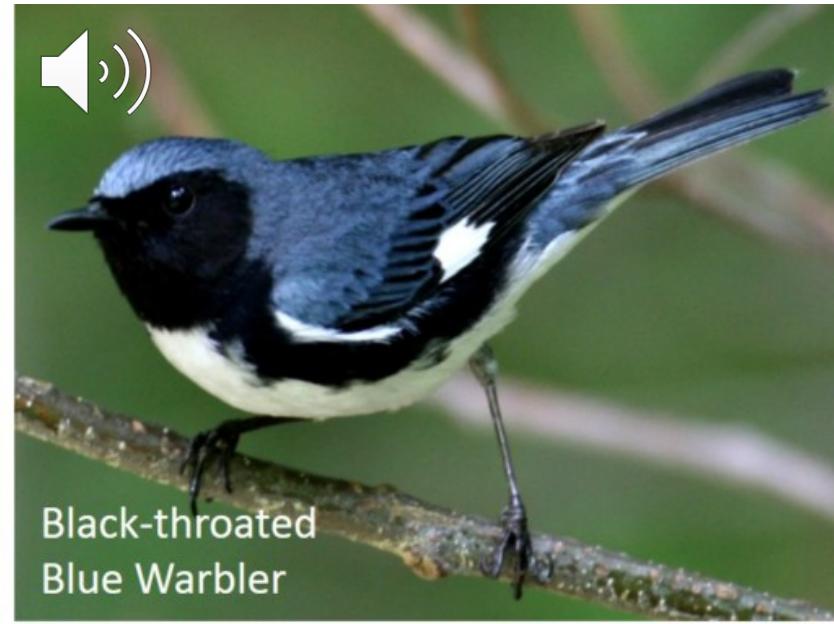
# What can we learn from songbirds? (And their bird brains)



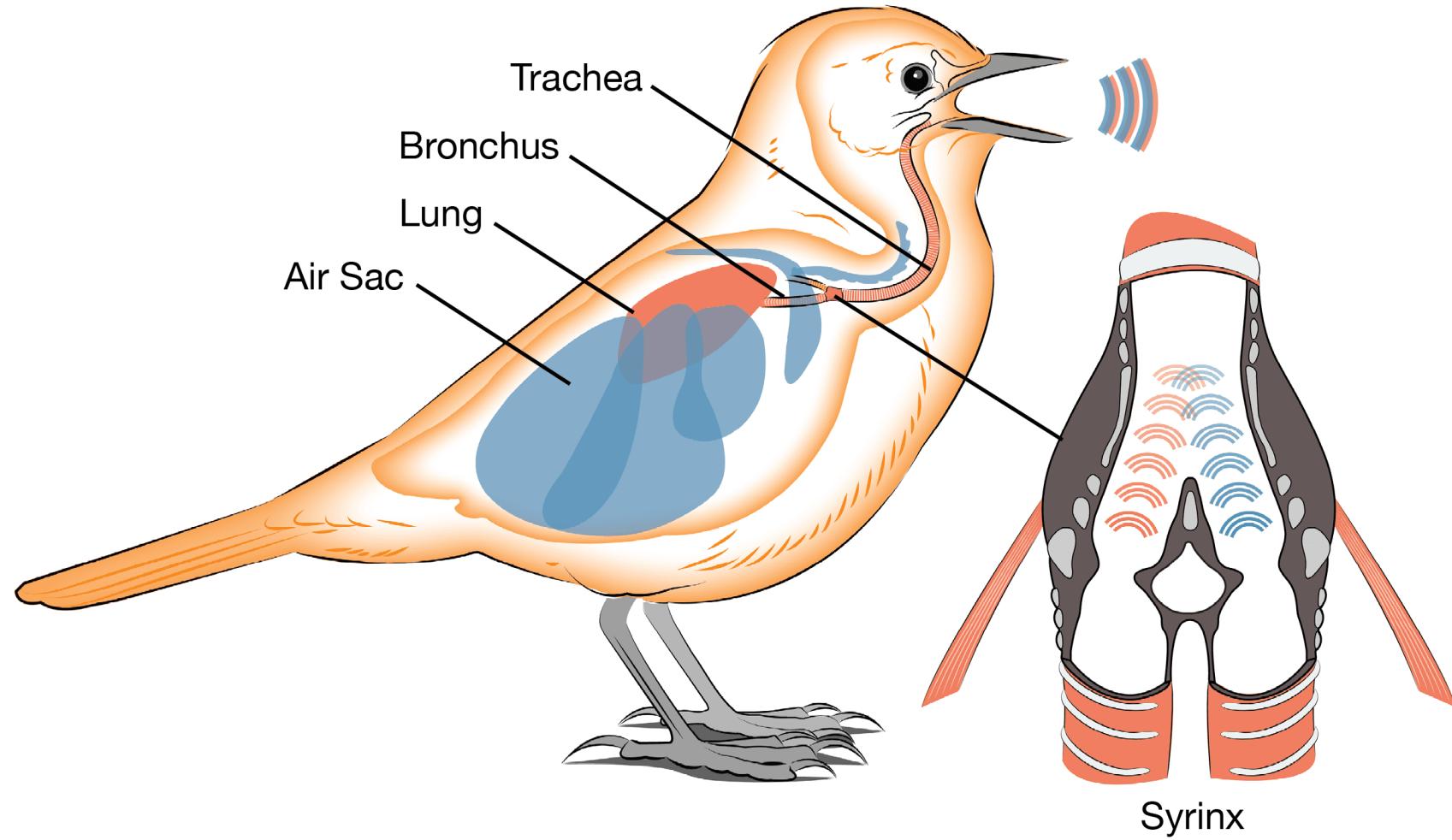
Singing (and speaking) is a choreographed movement



# There are ~5000 songbird species

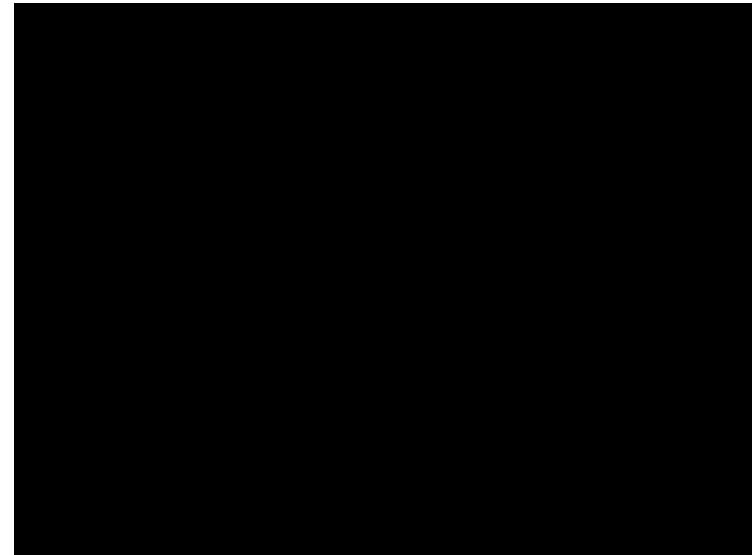


# The musical instrument of songbirds – the syrinx





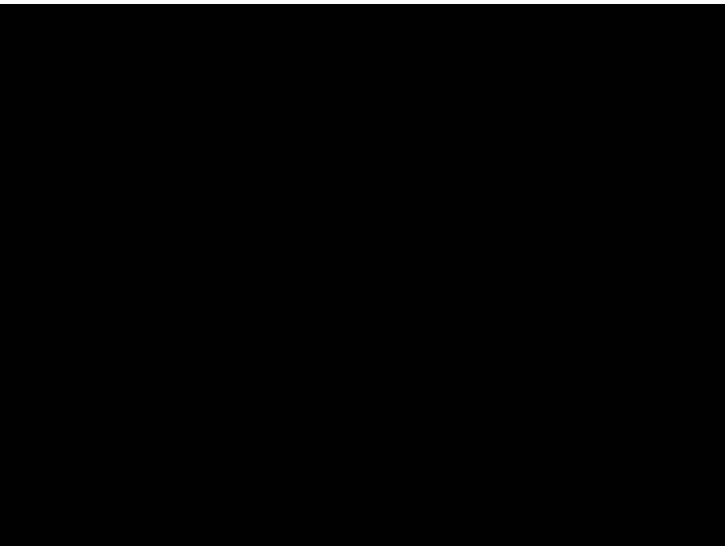
Queen



Beatles



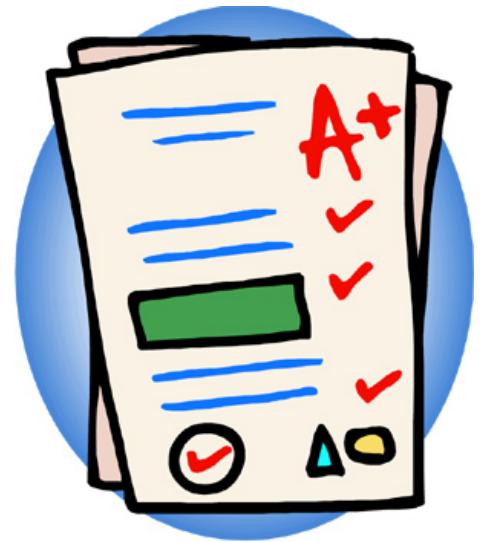
Eric Clapton



Cat Stevens



# Songbirds learn to copy their parents







1  
2  
3  
4  
5  
6  
7  
8  
9





# What is sound?

- How do we describe sound?



# Spectrograms

# Specialized neurons are active when birds sing

