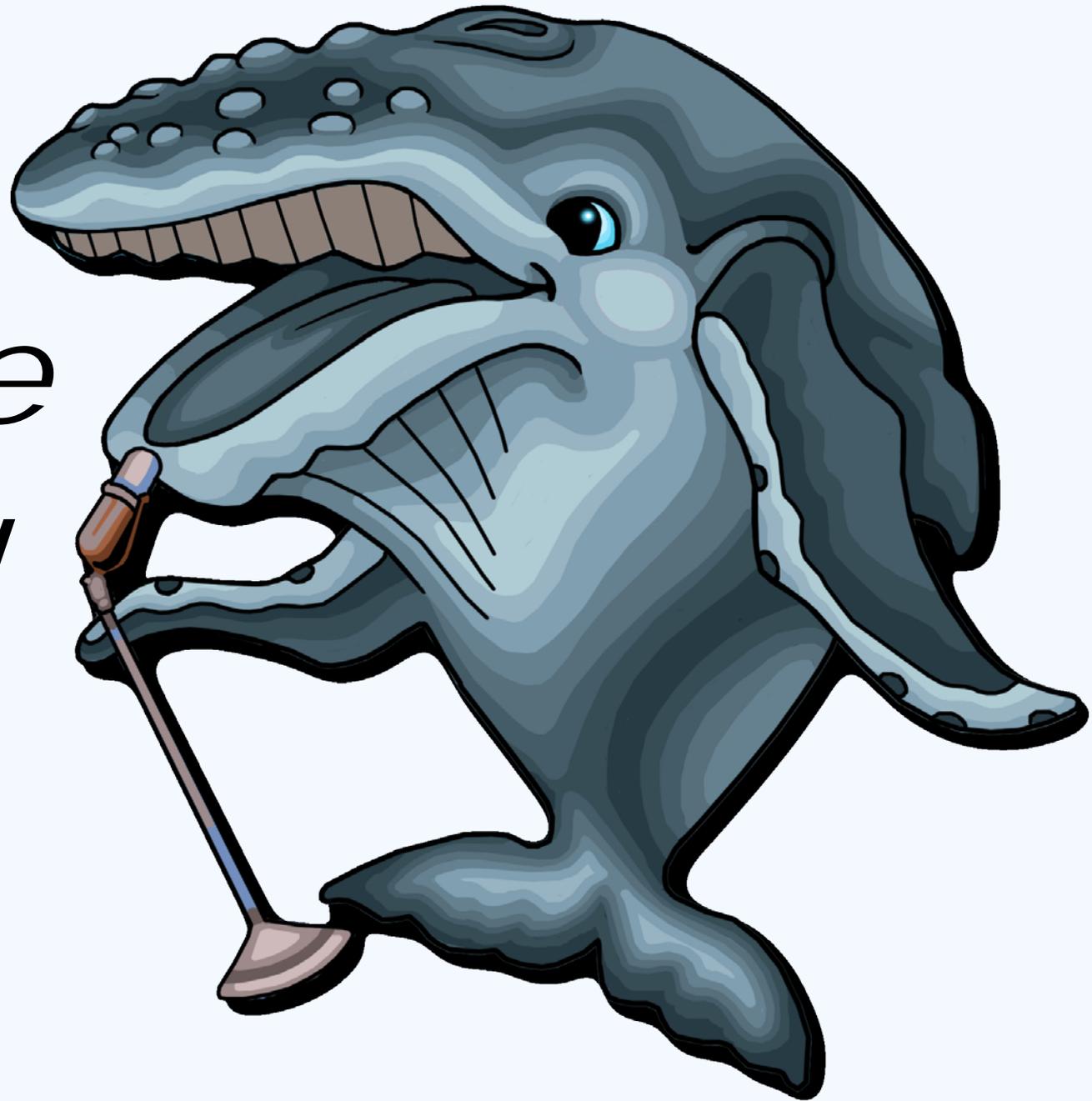
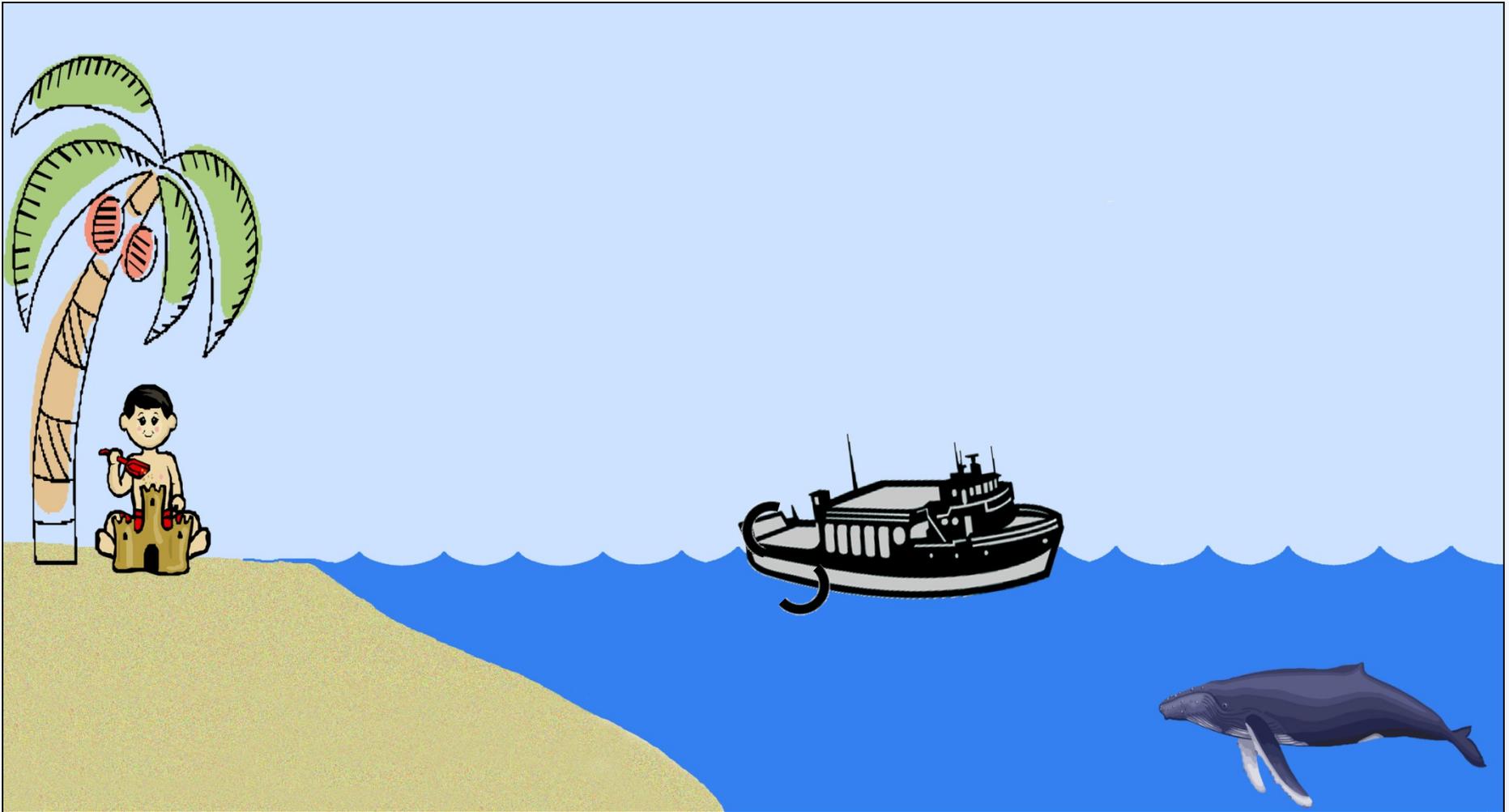


# *Whale Song*

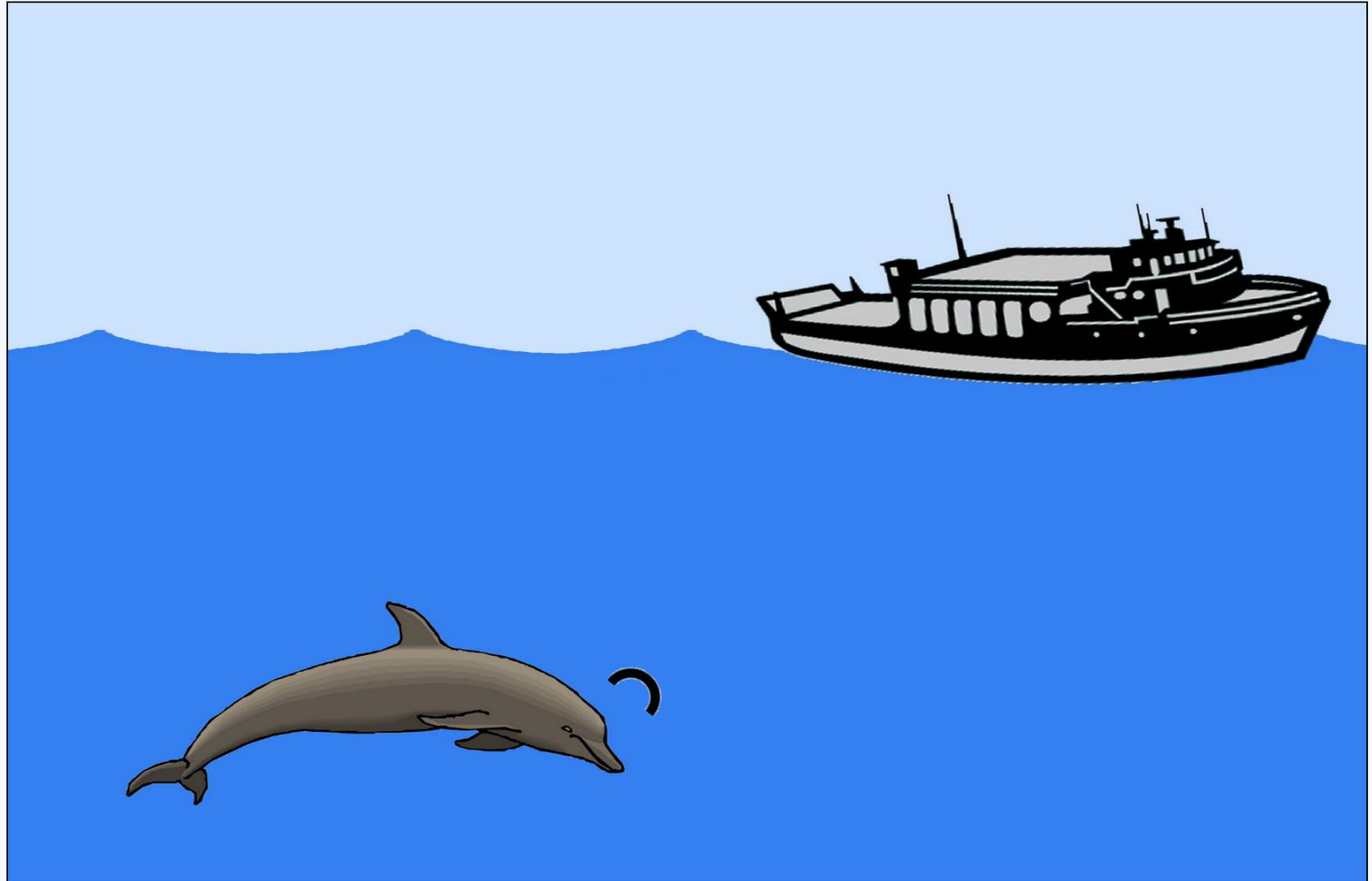
Grade 4 Unit 4 Lesson 3



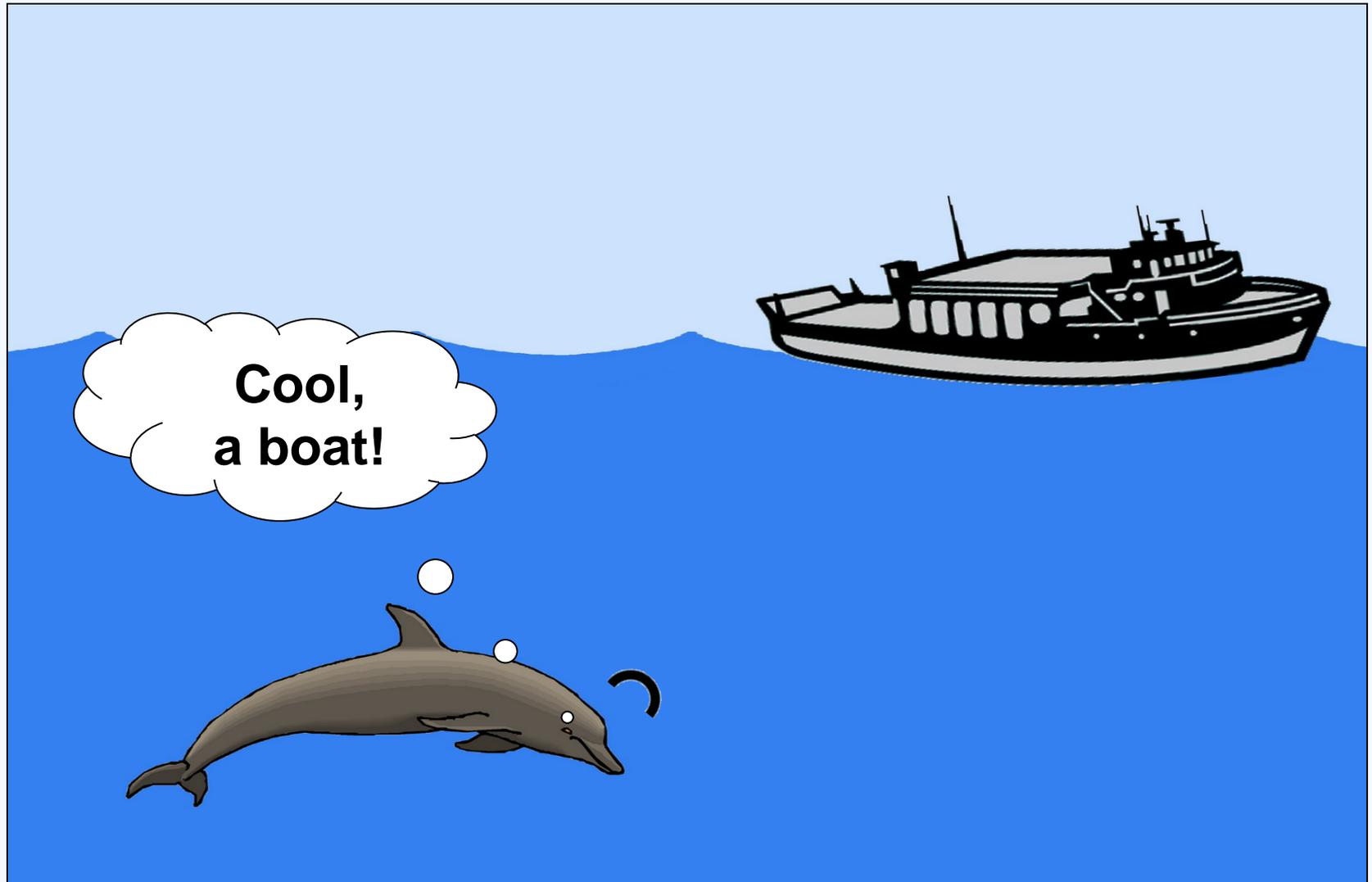
# Sound Travels Faster in Water Than in Air



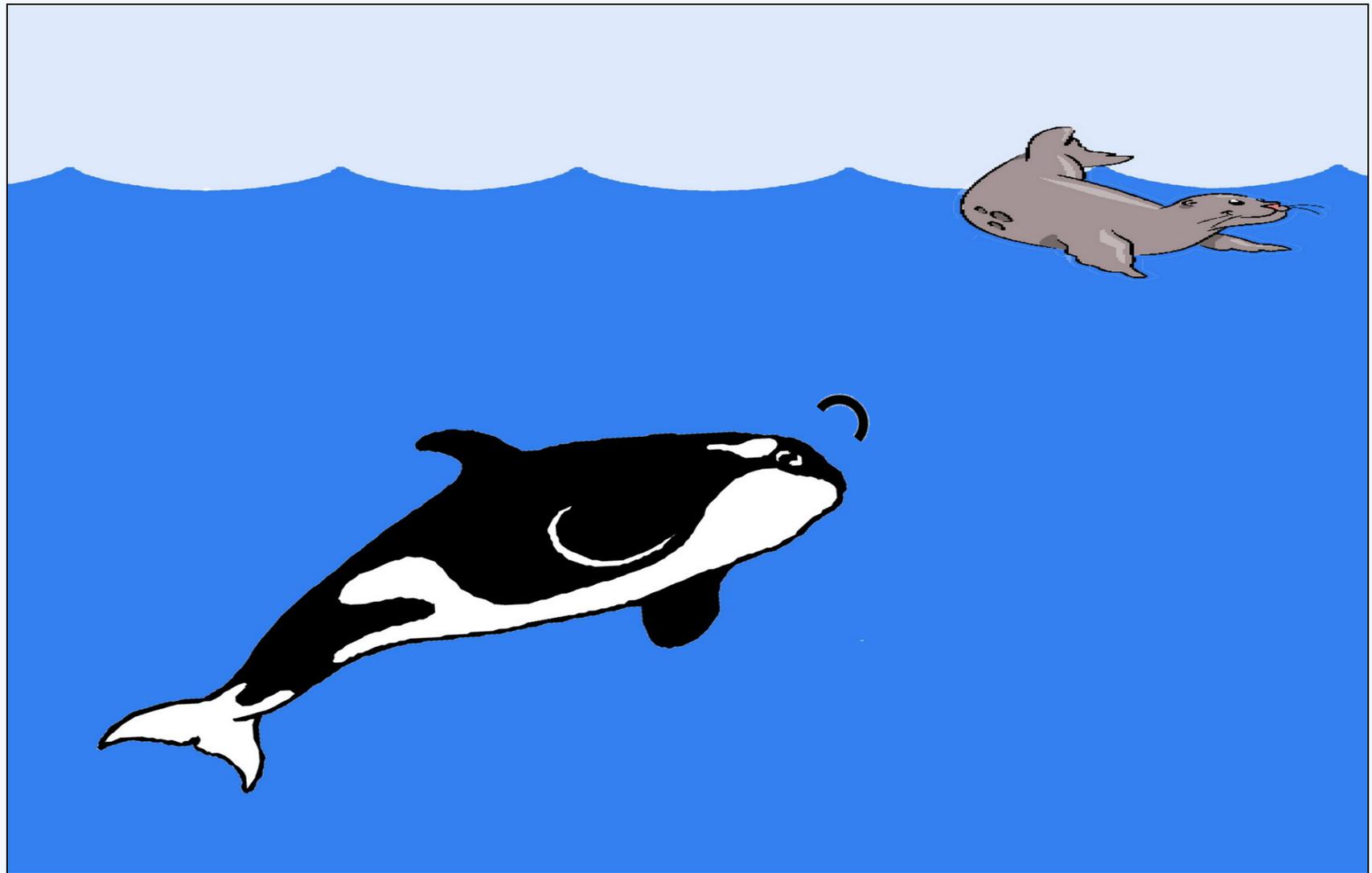
# Odontocetes Echolocate



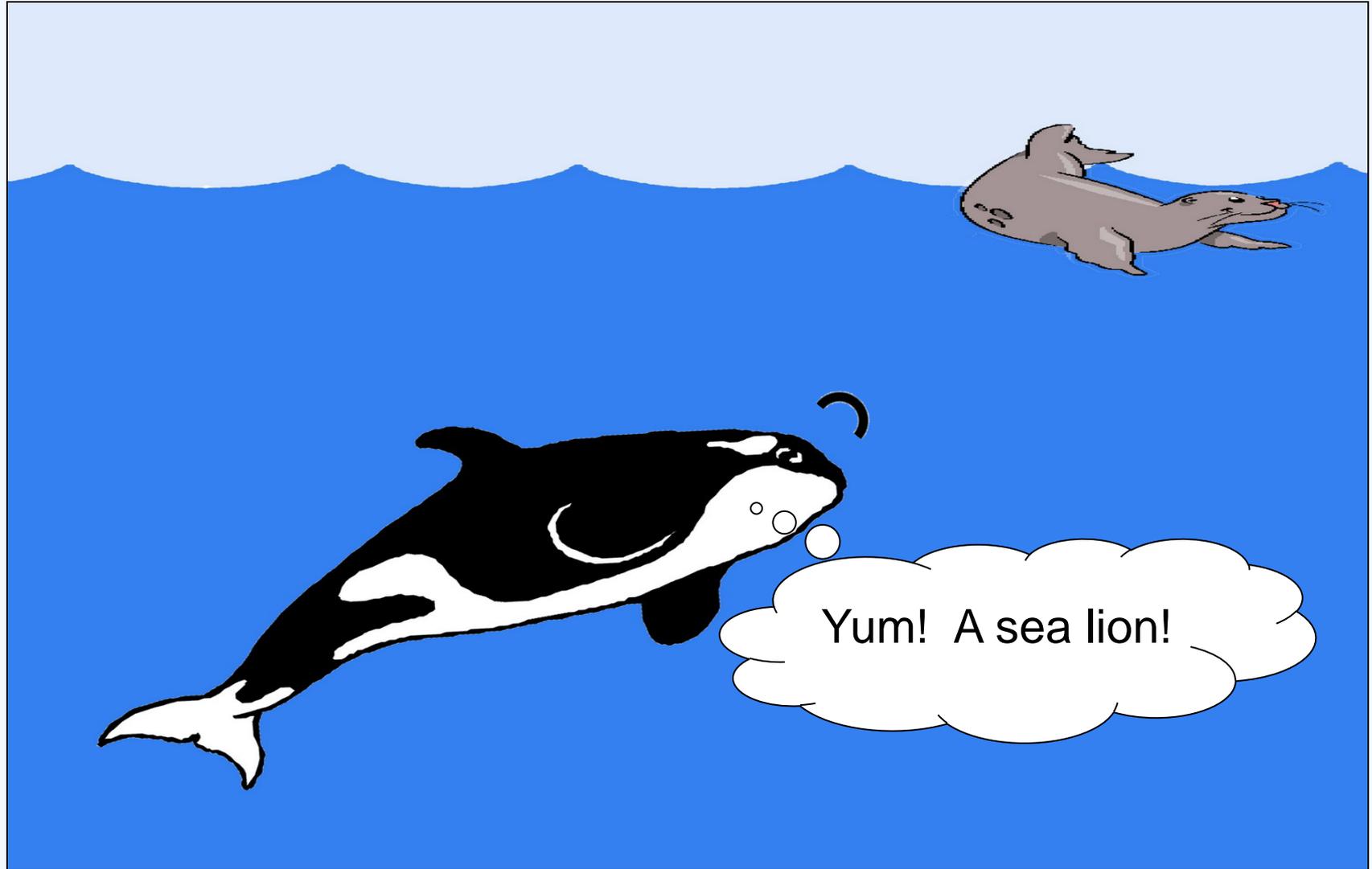
# Odontocetes Echolocate



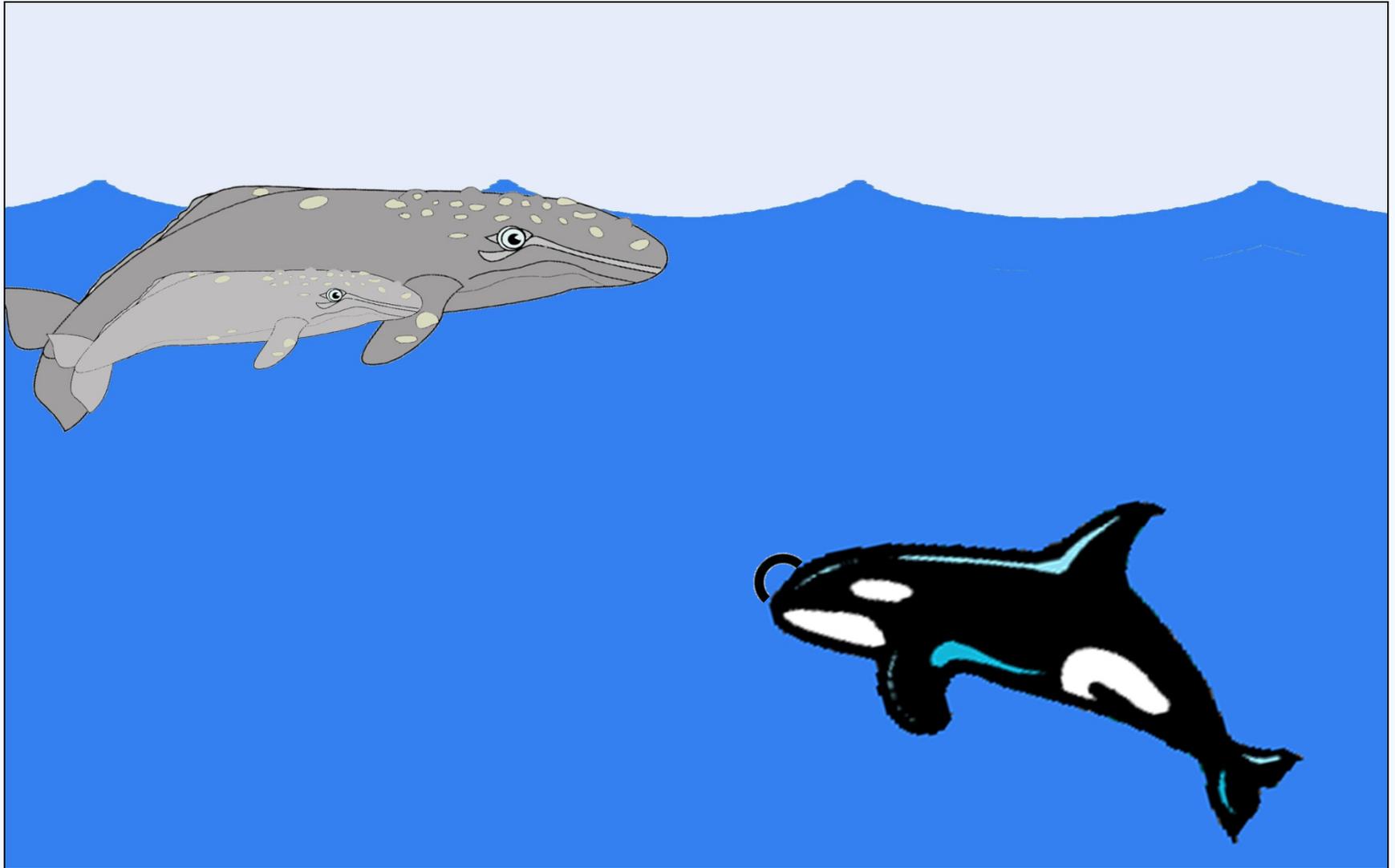
# Sounds Aid in Feeding



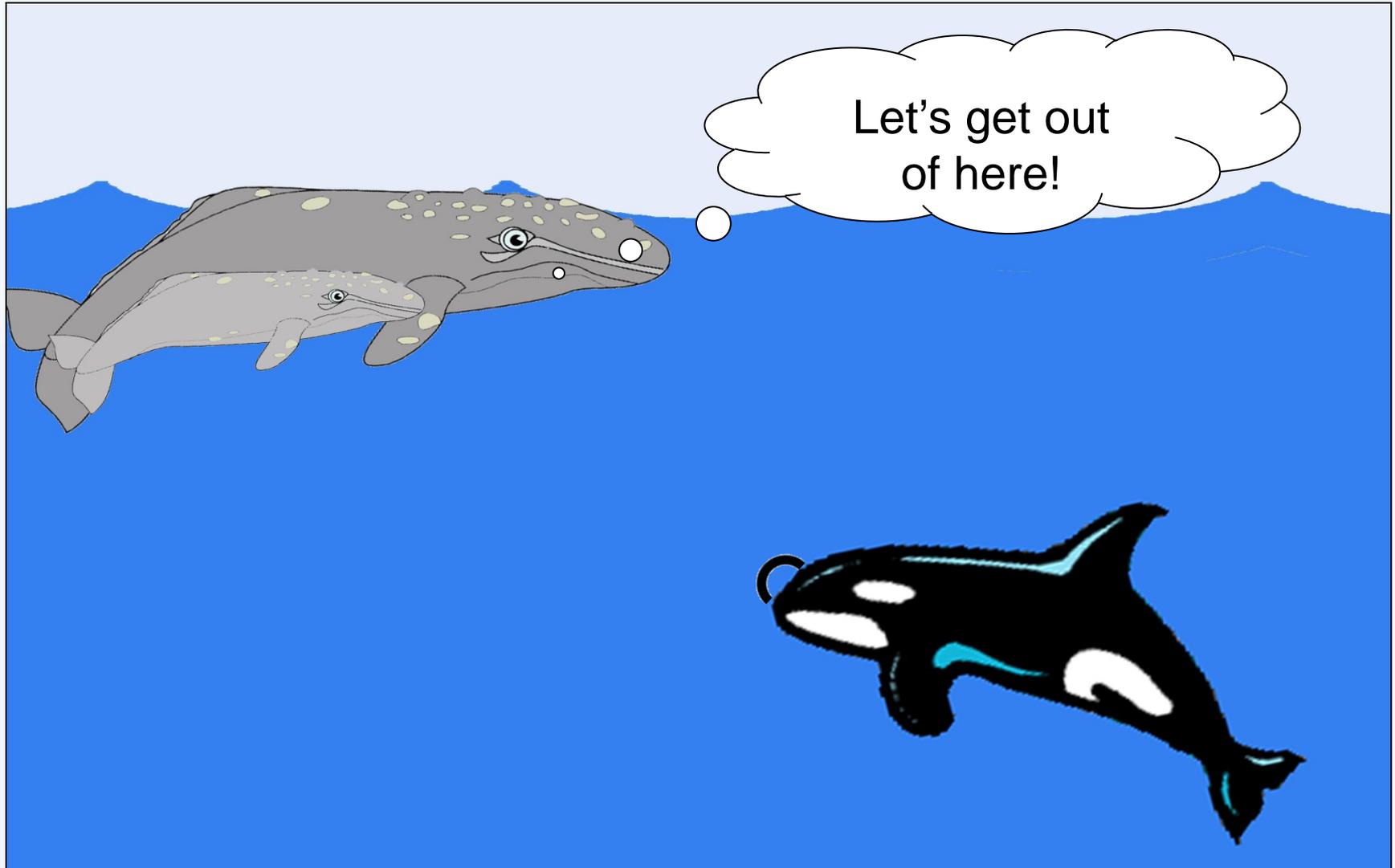
# Sounds Aid in Feeding



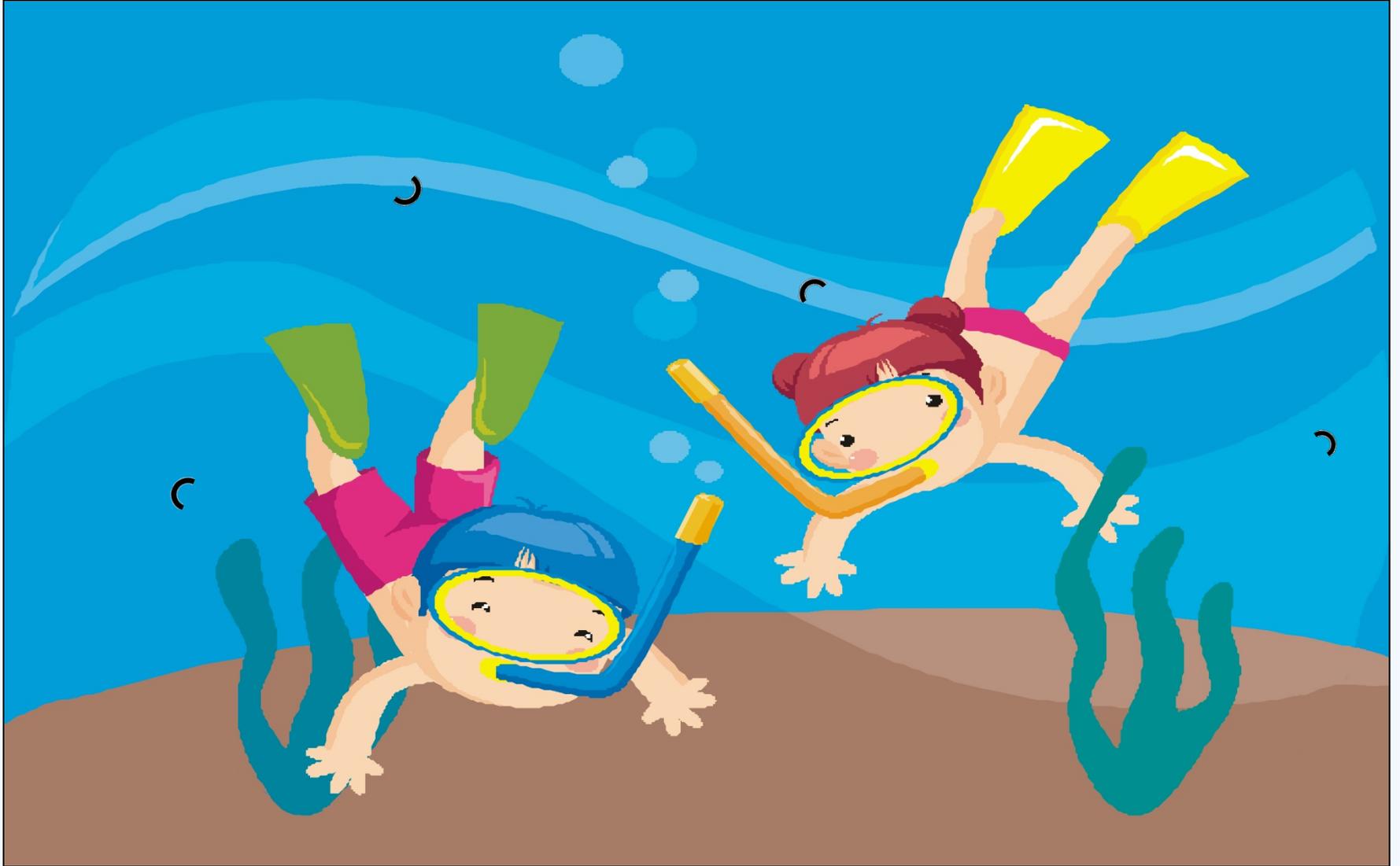
# Sounds Also Aid in Avoiding Predators



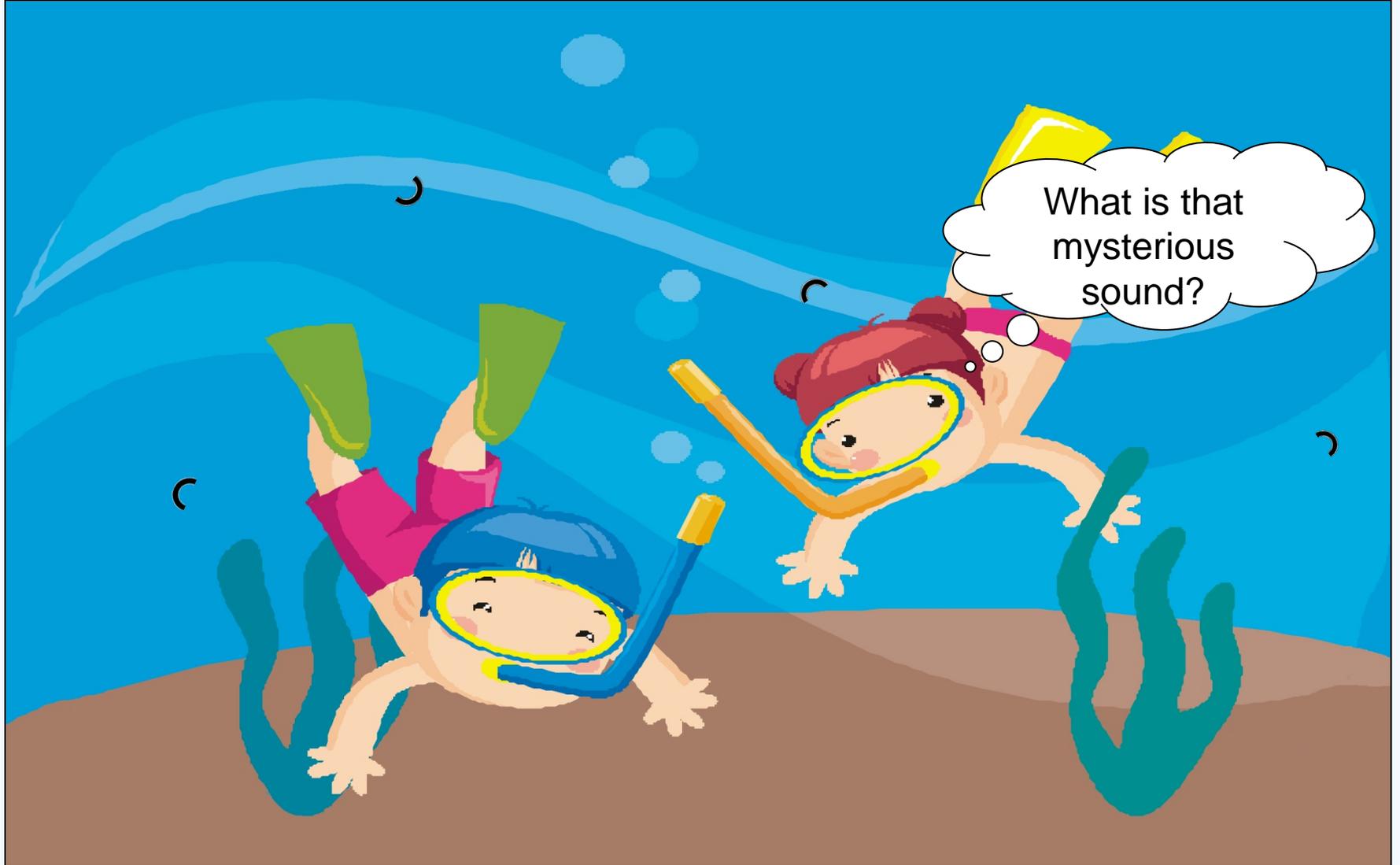
# Sounds Also Aid in Avoiding Predators



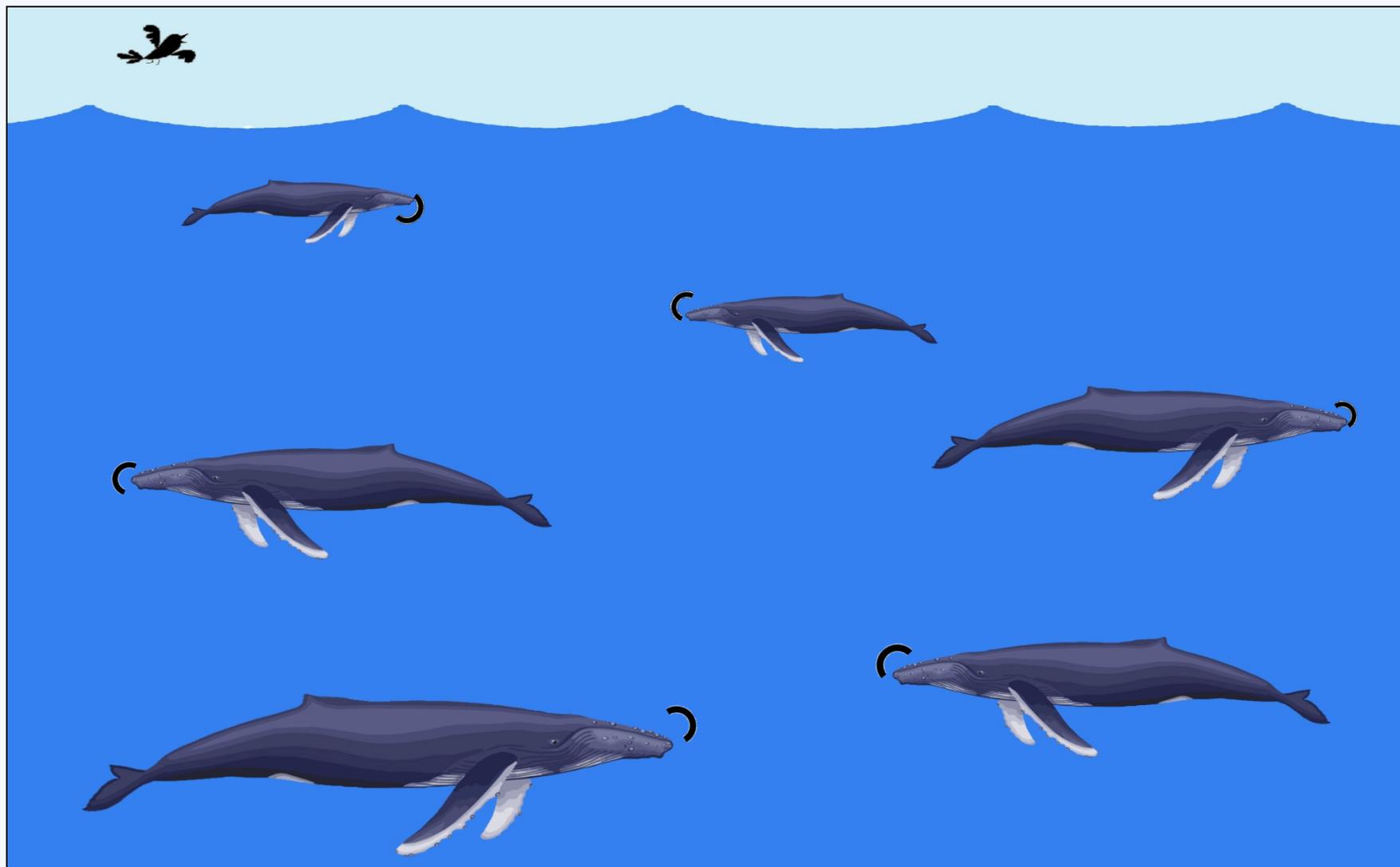
# Humpbacks Sing Myterious Songs



# Humpbacks Sing Mysterious Songs



# Whales Communicate with Other Whales with Sound

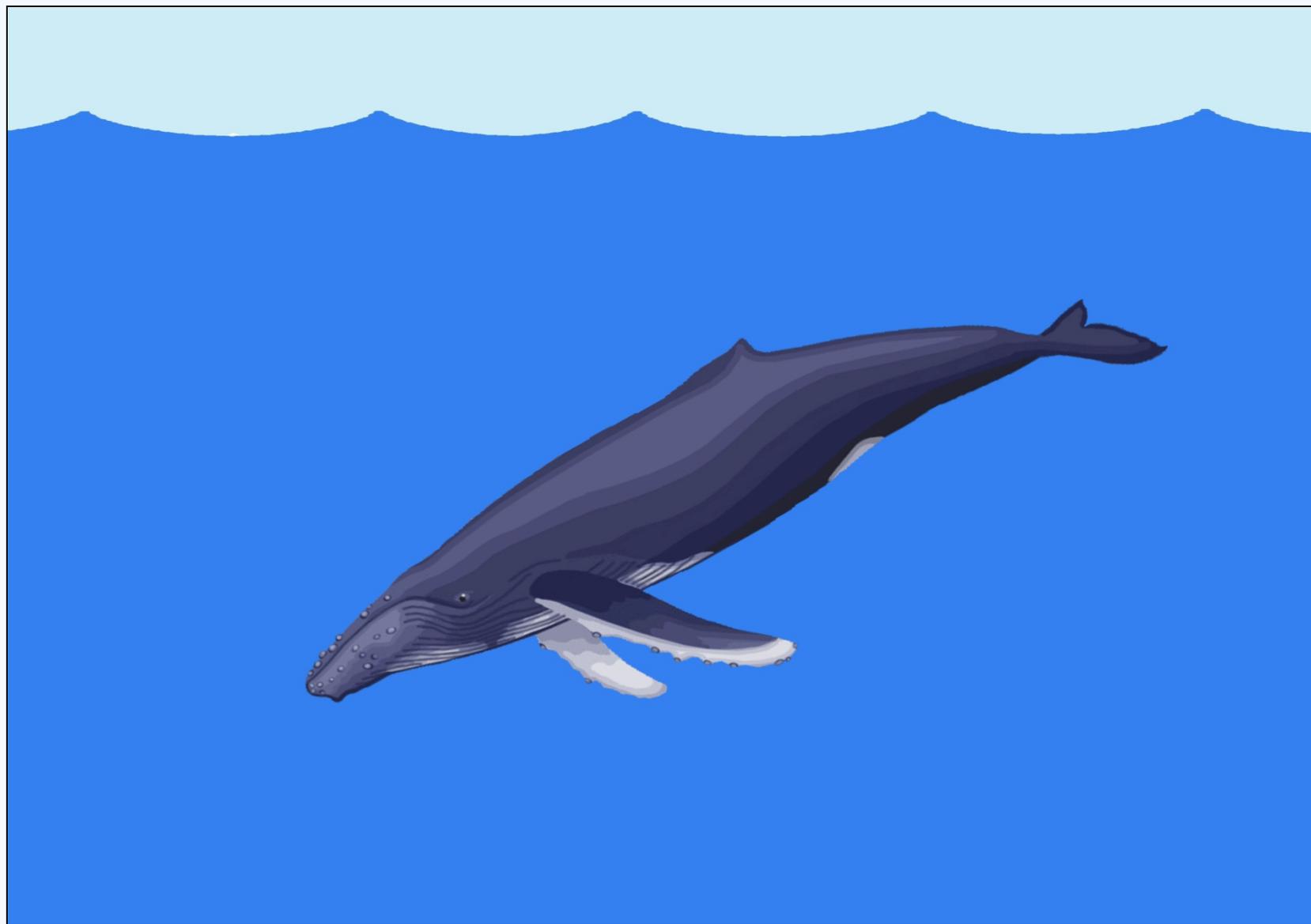


# People Have Vocal Cords

## Whales Do NOT



Who? Where?



# Who? Where?

Only Males Sing



# Who? Where?

Only Males Sing

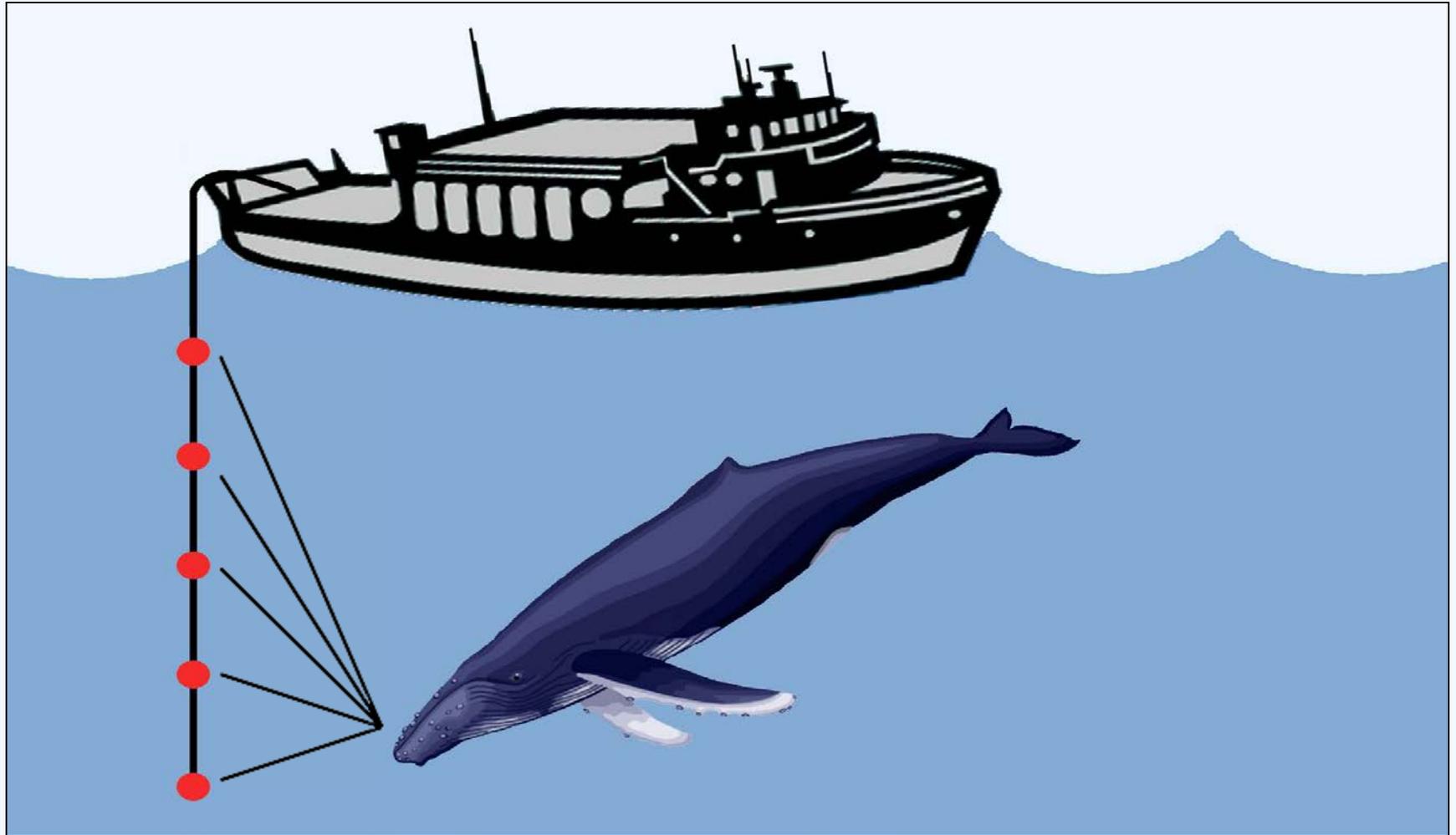
45°



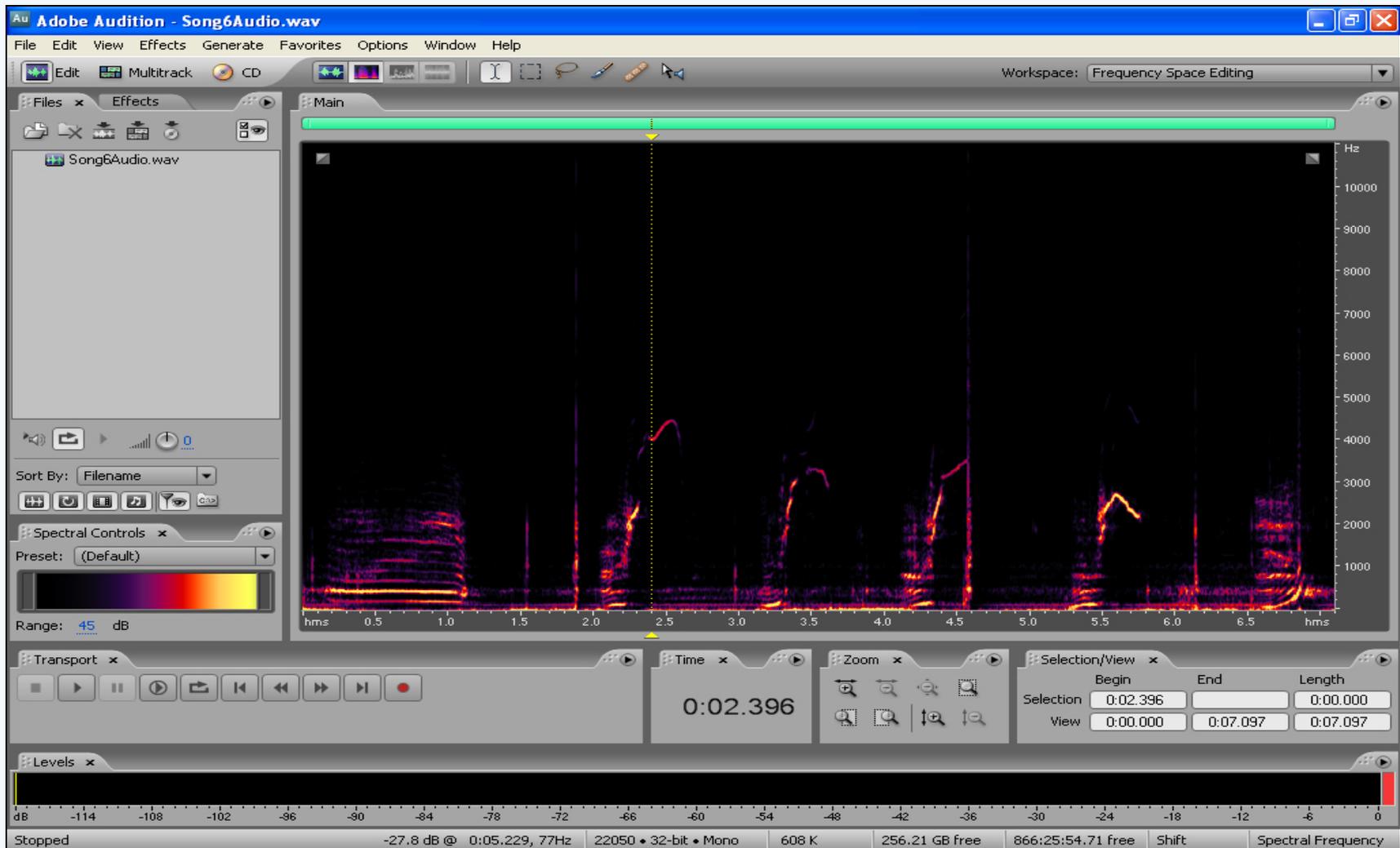
# Who? Where?



# Scientists Record Whale Song

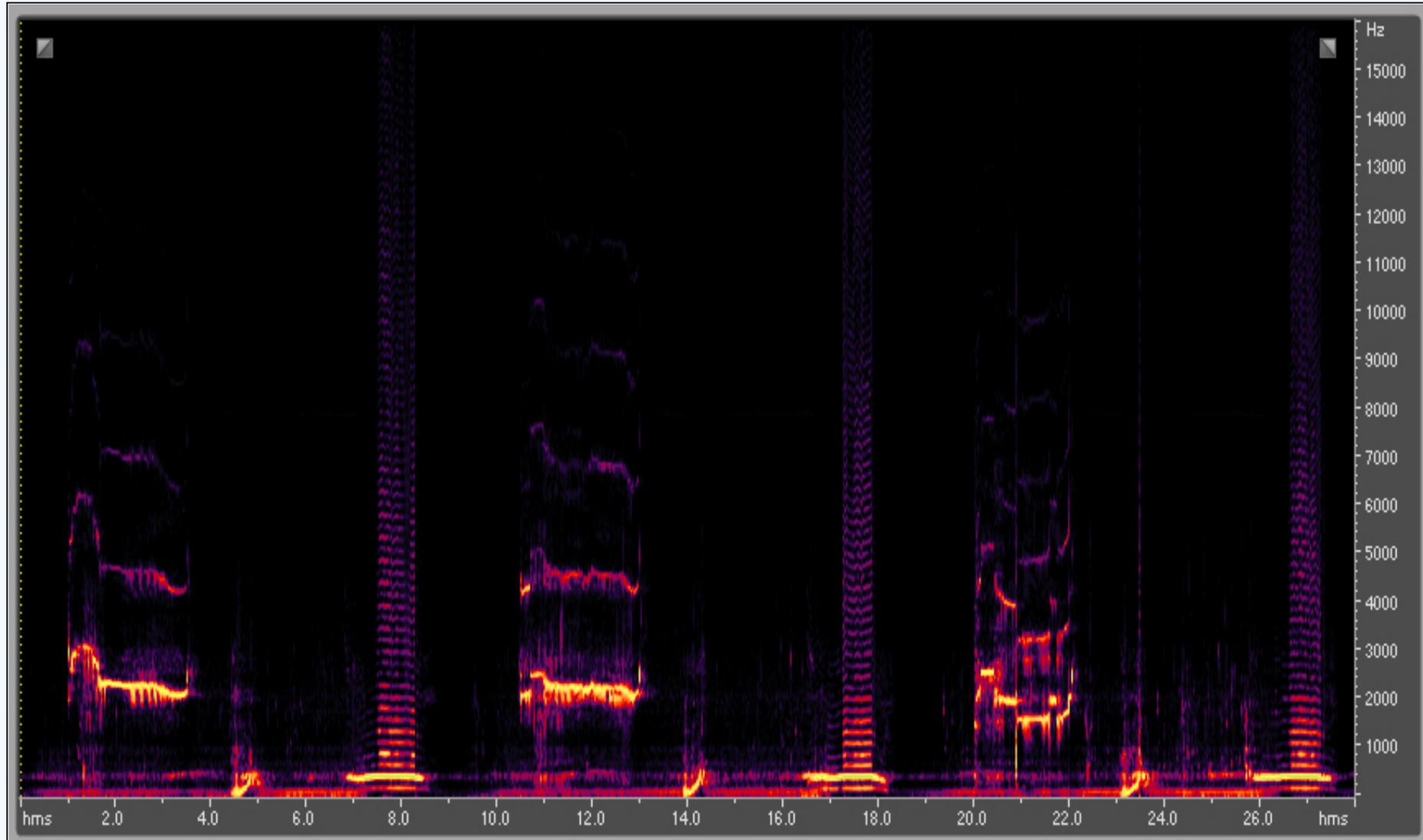


# Scientists Analyze Song with Spectrographs



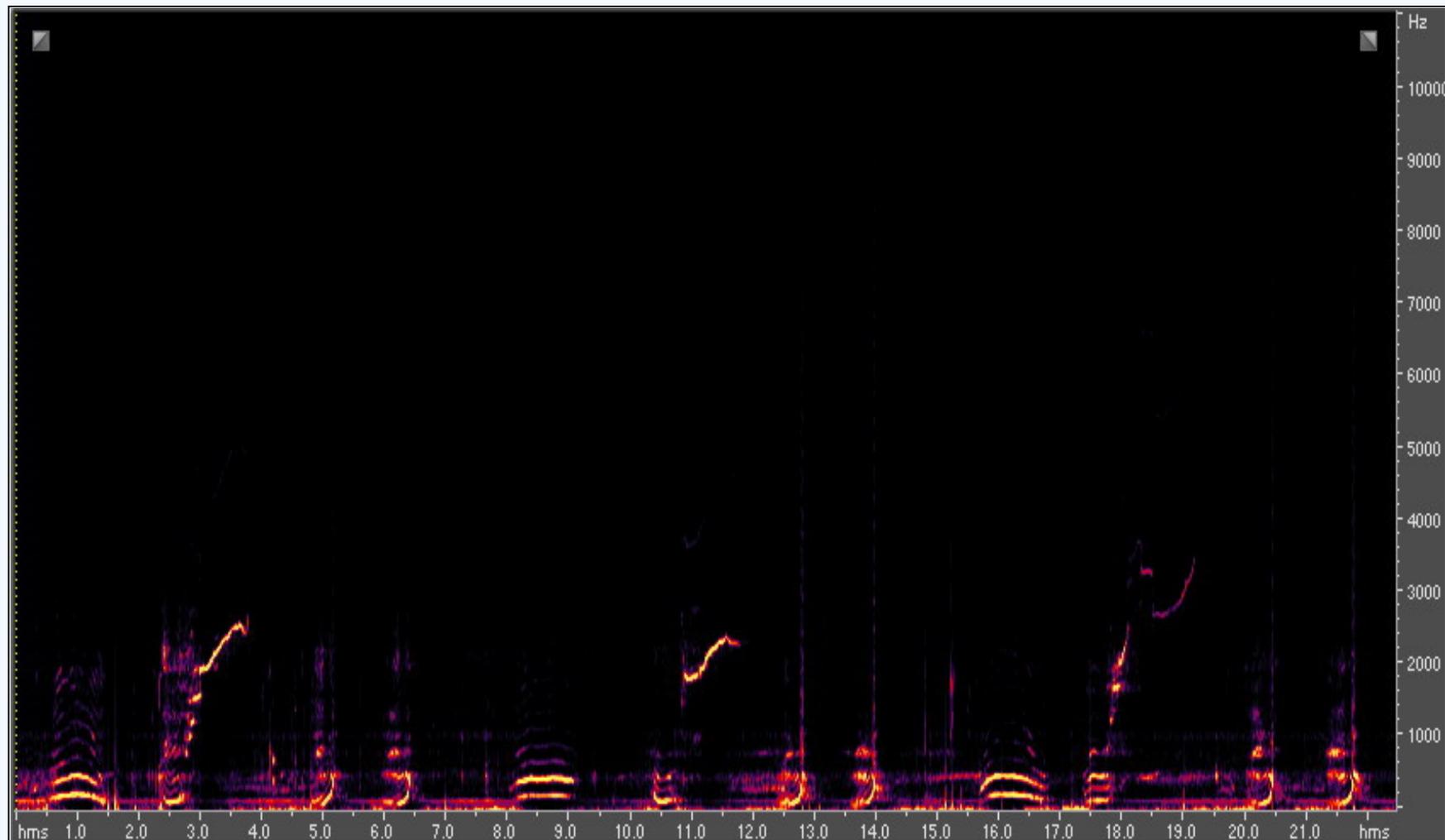


# Song Sounds





# Song Structure



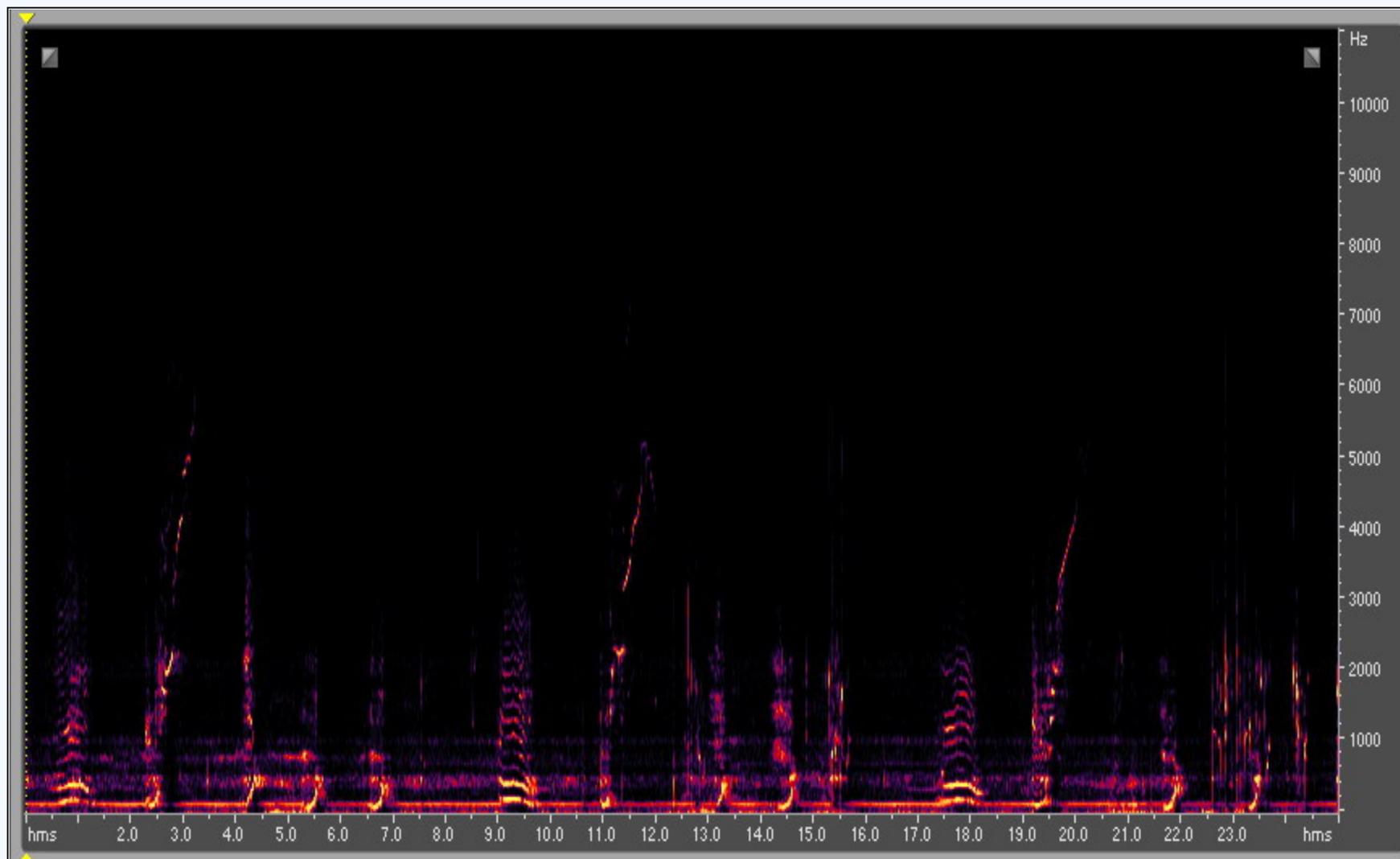
Unit

Phrase

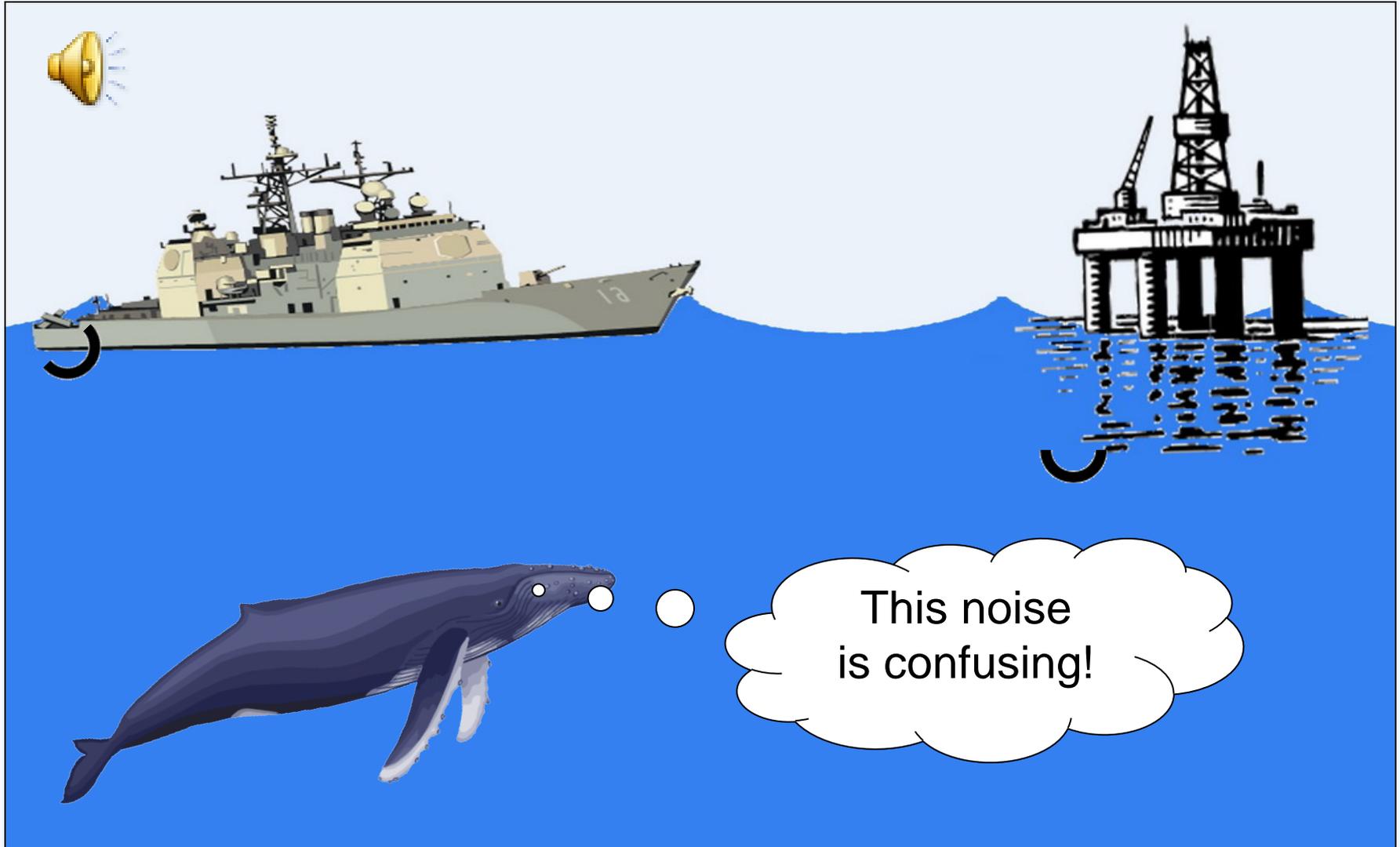
Theme



# Song Changes Over Time



# People Cause Noise Pollution





The End

Thank you  
very much.