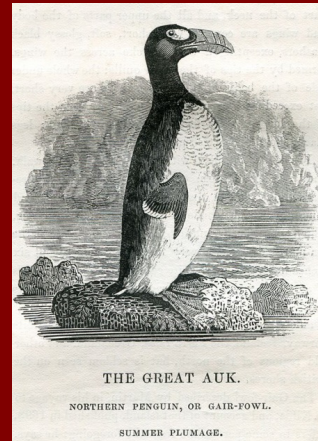


Species Extinction

- What Species Extinction Is
- 7 Extinction Case Studies
 1. Dinosaurs
 2. Dodo bird
 3. Woolly mammoth
 4. Saber-toothed tiger
 5. Tasmanian tiger
 6. Great Auk
 7. Passenger Pigeon
- The Importance of Projecting Species



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- Other slides may have on them, this represents writing that has been removed on this sample

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Species Extinction

- _____
- Extinction occurs when a species dies out completely, either as a result of natural processes or due to human activities
- All living things can become extinct including plants, animals, fungi, and bacteria



The Dodo Bird



Woolly Mammoth

Species Extinction

- There have been many extinct species throughout the history of life on Earth
 - Some scientists estimate that that as
-



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Species Extinction

Implications

- ---

- Species richness (lots of different species) helps maintain biodiversity and keeps ecosystems healthy



Species Extinction - Dinosaurs

- The extinction of dinosaurs is one of the most well-known examples of a mass extinction event
- _____
- The general theory among scientists is that the dinosaur extinction was likely caused by an asteroid impact



Species Extinction - Dinosaurs

About 66 million years ago, a massive asteroid, approximately 10-15 kilometers in diameter, struck the Earth in what is now the Yucatan Peninsula of Mexico.



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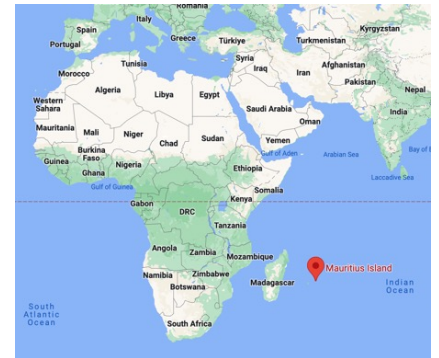
Species Extinction - Dinosaurs

- The impact also kicked up massive amounts of dust and debris into the atmosphere, blocking out sunlight
- _____
- This decreased the amount of available food and contributed to the extinction of the dinosaurs



Species Extinction – Dodo Bird

- The dodo bird was a flightless bird that was found on the island of Mauritius off the coast of Africa



- ---
- The extinction of the dodo bird is a classic



Species Extinction – Dodo Bird

- When humans first arrived on the island of Mauritius, they brought animals that ate the eggs and chicks of the dodo bird
- _____
- Additionally, sailors and settlers hunted the dodo bird for its meat, which was said to be quite tasty



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Species Extinction – Woolly Mammoth

- The woolly mammoth was a large, shaggy mammal that lived during the last ice age
- The woolly mammoth is known to have gone extinct around 4,000 years ago



Species Extinction – Woolly Mammoth

- A number of things caused the woolly mammoth extinction

- _____



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Species Extinction – Woolly Mammoth

- _____
- The climate became warmer and wetter, and the woolly mammoth's habitat began to disappear
- _____



Species Extinction – Woolly Mammoth

- Scientists are currently studying the remains of these ancient animals to learn more about their biology and where they lived
- _____



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Species Extinction – Saber-Toothed Tiger

- One theory of why they went extinct is climate change
- _____
- Climate change would have caused changes to the ecosystems in which the saber-toothed tiger lived, making it more difficult for the animal to find food and survive



Species Extinction – Saber-Toothed Tiger

- Another theory is that the extinction of the saber-toothed tiger was driven by competition with other carnivorous

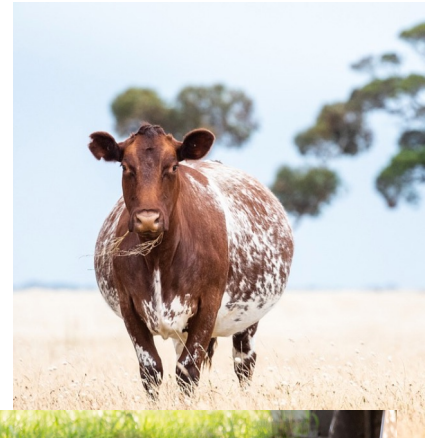
- These animals may have hunted the same prey as the saber-toothed tiger and may have been better predators



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Species Extinction – Tasmanian Tiger

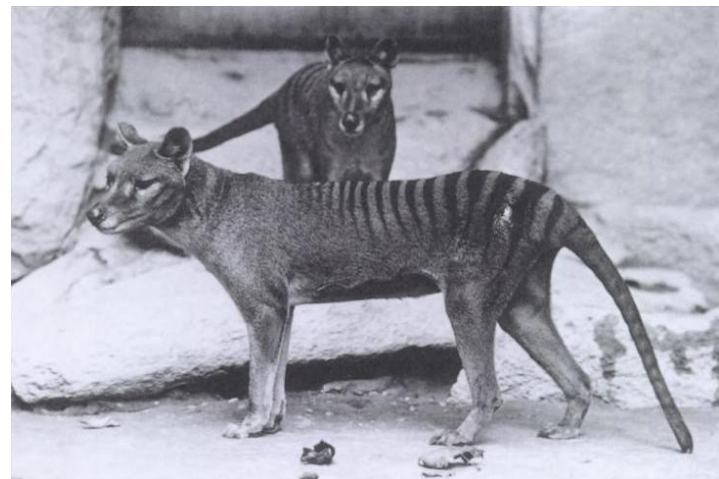
- The Tasmanian tiger went extinct in the early 20th century
 - When Europeans arrive in Tasmania in the early
 - These animals were easy prey for the Tasmanian tiger, and it soon
-



Species Extinction – Tasmanian Tiger

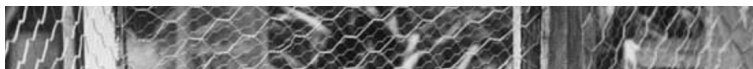
- To protect their animals, the Tasmanian government offered money for those who captured or killed Tasmanian tigers

- _____



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Species Extinction – Tasmanian Tiger

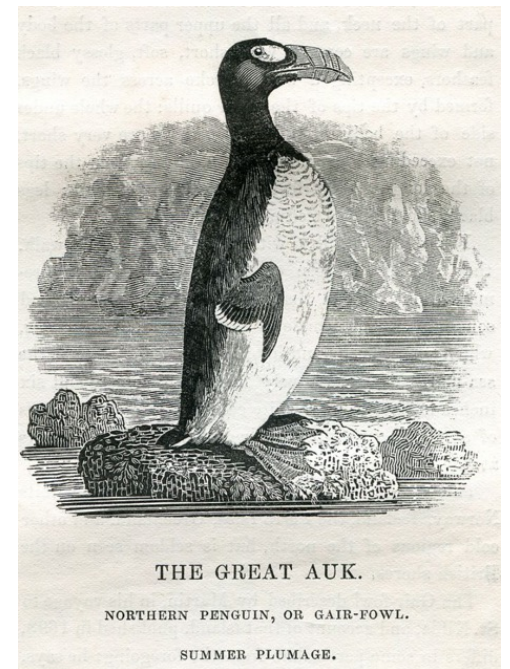
- Tasmanian tiger
 - Today, the Tasmanian tiger is a symbol of the impact of human activities on nature, and its extinction serves as a cautionary tale about the importance of conservation and the need to protect endangered species
- 
- A black and white photograph showing a close-up of a chain-link fence. The fence is made of interlocking diamond-shaped metal links. In the background, there are some vertical wooden posts or poles, possibly part of a gate or support structure. The lighting creates strong shadows and highlights on the metal mesh.



Species Extinction – The Great Auk

- The Great Auk was a flightless bird that lived in the North Atlantic Ocean, off the coast of Canada, Greenland, and Iceland

- ---



Species Extinction – The Great Auk

- _____
- The bird's inability to fly made it an easy target for hunters, and its slow breeding rate made it particularly vulnerable to over-hunting

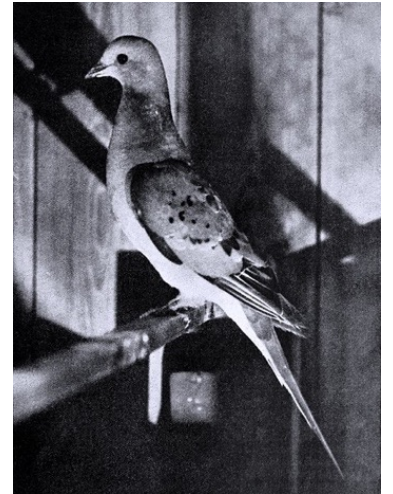


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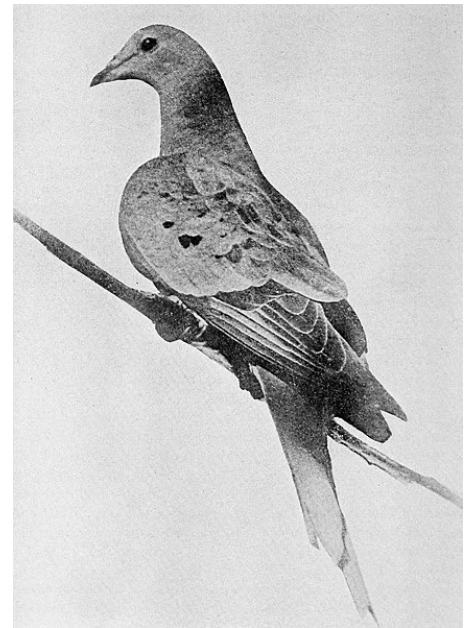
Species Extinction – The Passenger Pigeon

- _____
- This led to large-scale commercial hunting of the bird in the mid-19th century
- The combination of commercial hunting and habitat loss due to deforestation led to a rapid decline in the passenger pigeon's population



Species Extinction – The Passenger Pigeon

- By the late 19th century, the bird's numbers had dropped dramatically



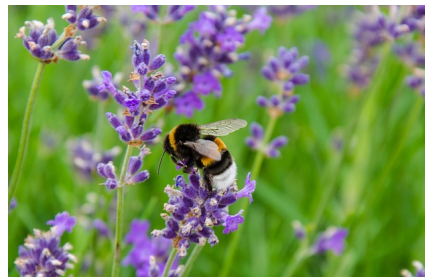
Martha in her enclosure, 1912

- _____

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The Importance of Protecting Species - Biodiversity

- _____
- For instance - Removing a species that pollinates flowers would disrupt the plants that rely on it and the animals that rely on those plants
- Protecting



A bee pollinating a flower

The Importance of Protecting Species

Economic Value

- Some species have economic value, such as those that are used in the production of medicines, food, or other products

Cultural Significance

- Many species have cultural significance for humans
- For example, certain species may have spiritual or religious significance, or be part of traditional cultural practices

Moral Obligation

- Humans have a moral obligation to protect other species from extinction
- We are the primary cause of the loss of biodiversity, and therefore, we have a responsibility to take action to prevent further extinctions