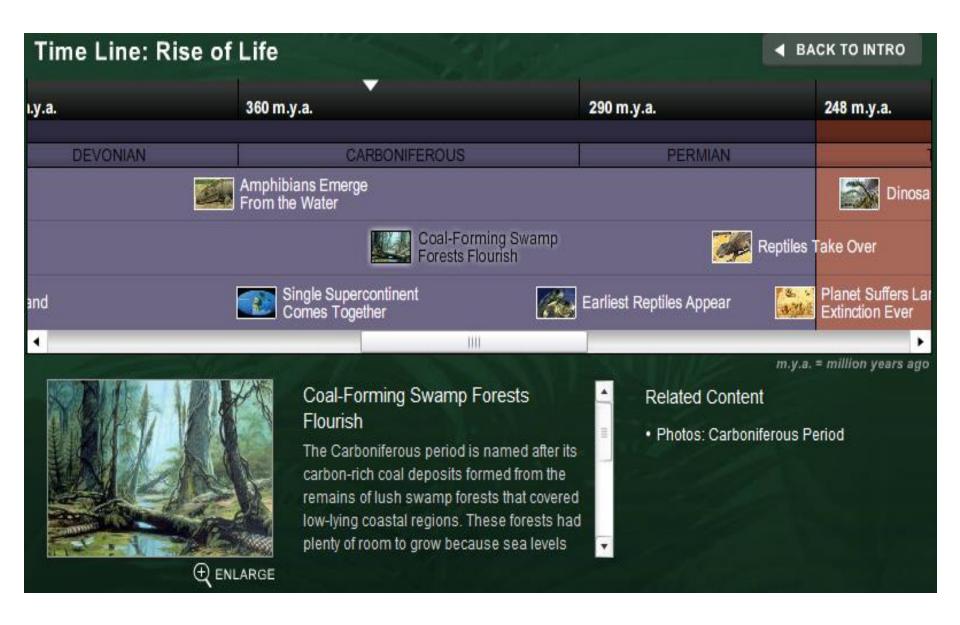


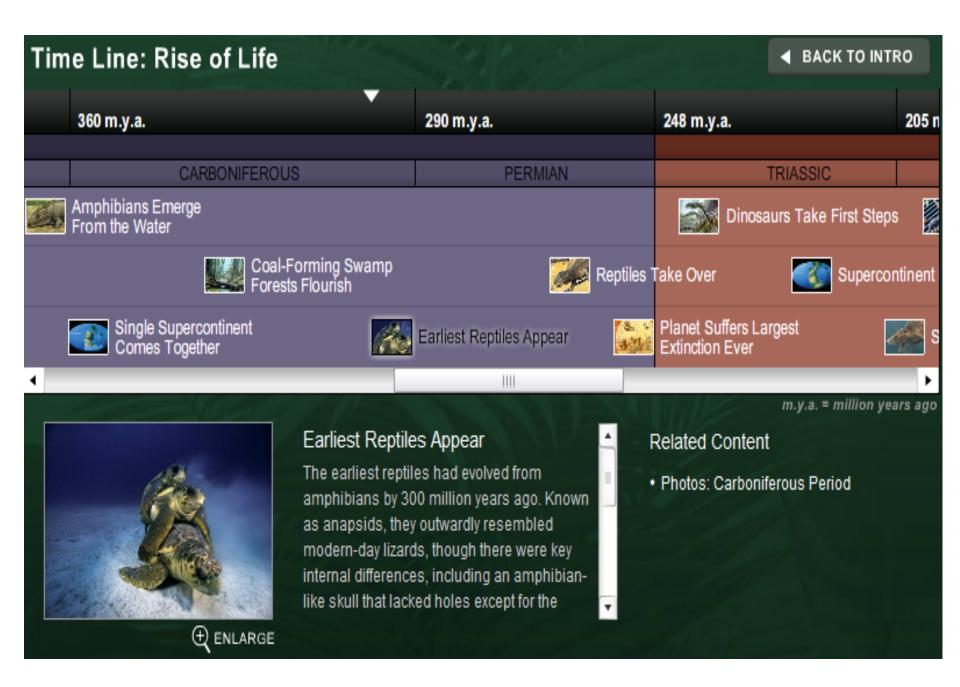
Amphibians Emerge From the Water

Amphibians started hauling themselves out of the water about 370 million years ago. The first vertebrates to walk on land, they evolved from air-breathing fish that waddled in the shallows on strong, limblike fins. So far, the closest fish candidate for the crossover animal identified is Tiktaalik. It had a crocodile-like head, as well as some features of land animals, such as ribs, a neck, and nostrils for taking in air. Proto-amphibians, such as Elginerpeton, probably had finned tails and breathed through simple lungs and their

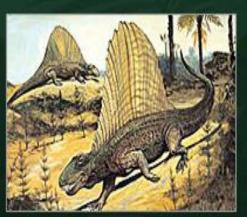
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Reptiles Take Over

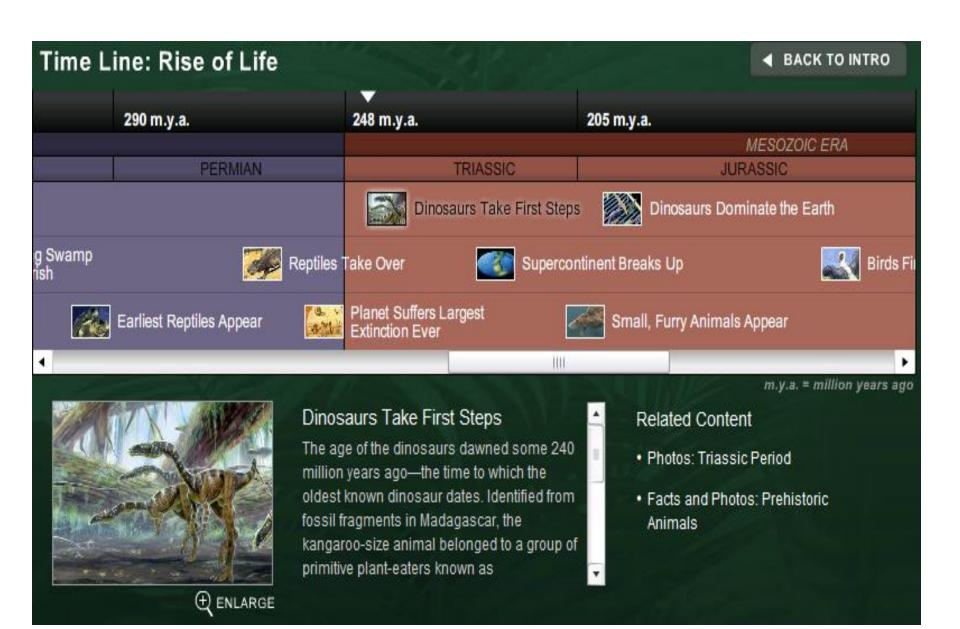
The emerging supercontinent of Pangaea presented a hostile living environment, its vast, arid interior suffering huge daily temperature extremes. These conditions favored reptiles that could adapt to the dry conditions. Growing to large sizes, some

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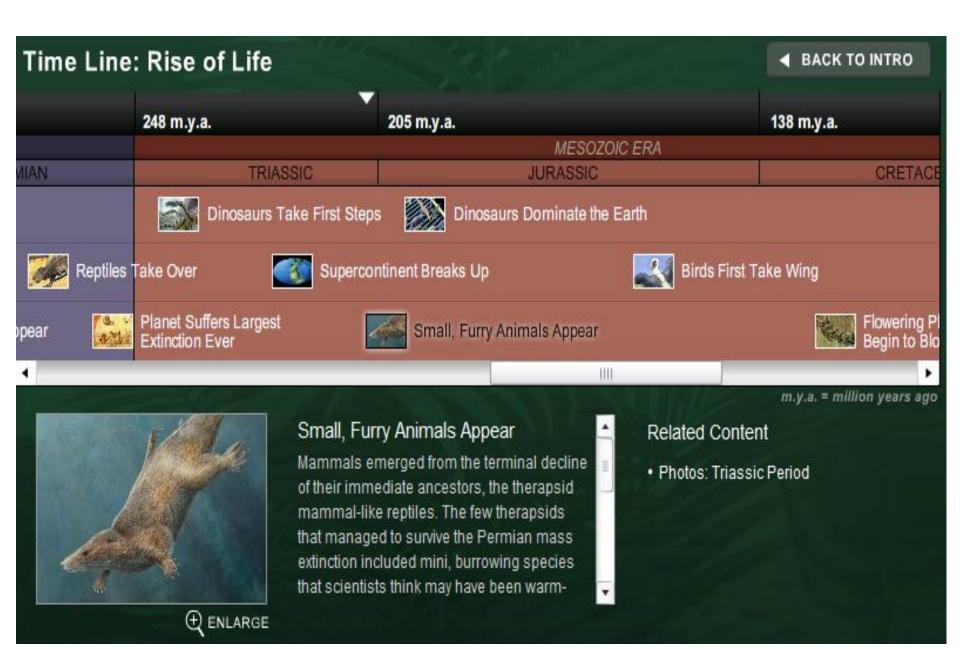
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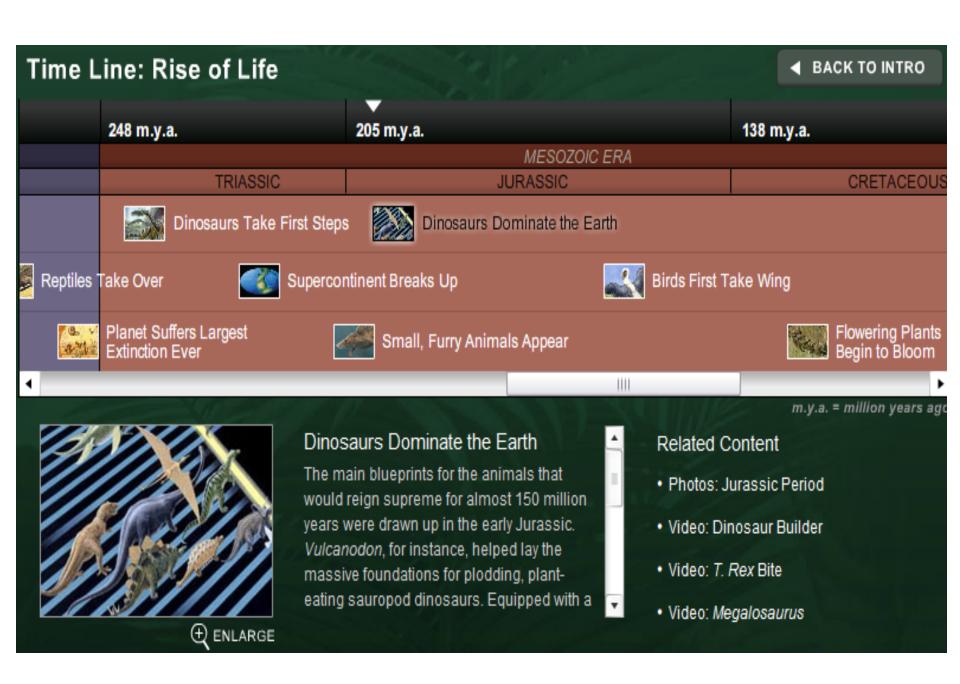
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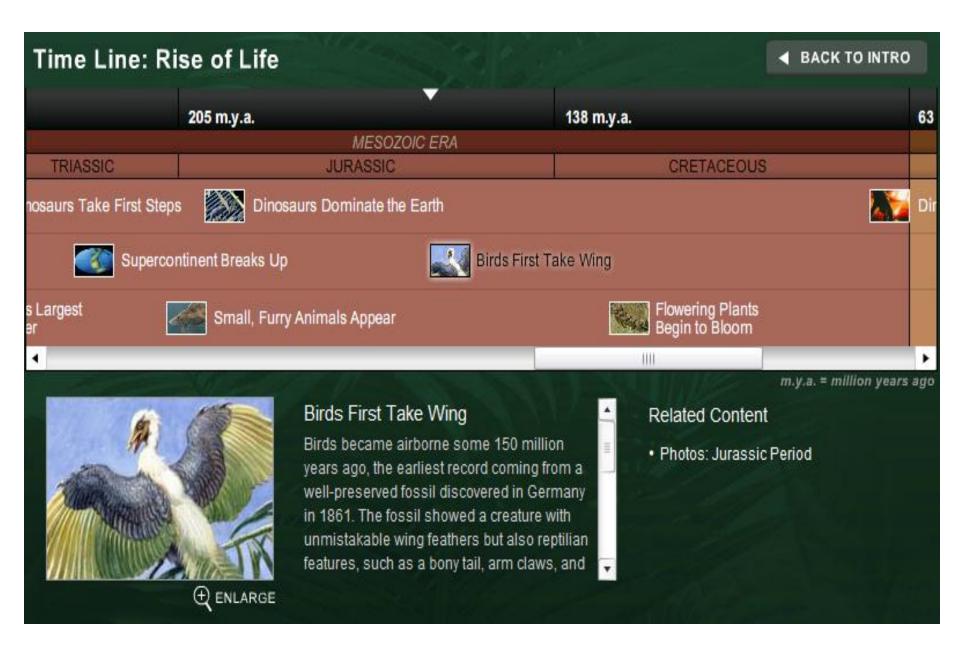


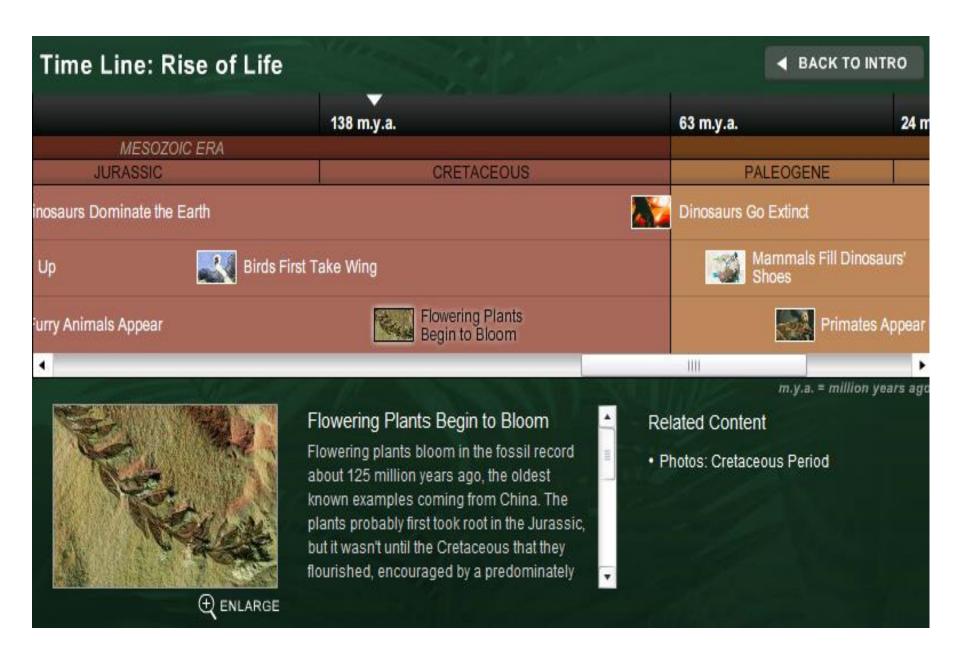


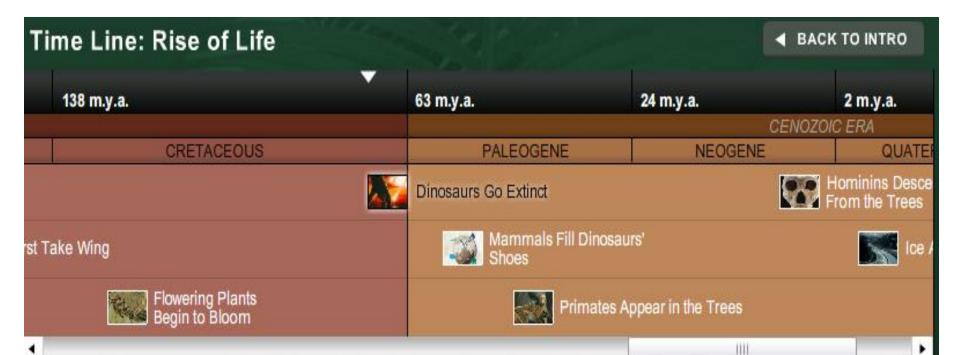












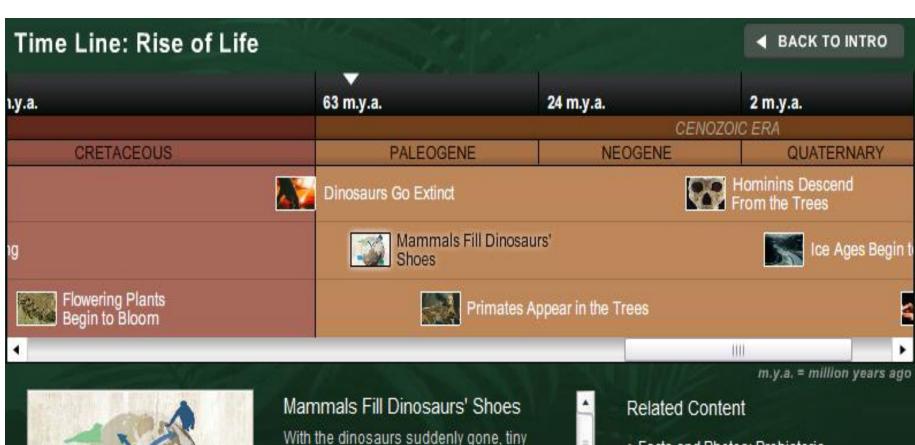


Dinosaurs Go Extinct

The end of the Cretaceous, 65 million years ago, was signaled by a massive extinction event that wiped out the non-avian dinosaurs. Up to 50 percent of the planet's animal and plant species disappeared. Other notable victims included giant marine reptiles,

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With the dinosaurs suddenly gone, tiny mammals stepped into their big shoes, rapidly diversifying and growing in size as the animals filled newly vacant ecological niches. Before long—about 60 million years ago—there was a dramatic explosion in

 Facts and Photos: Prehistoric Animals



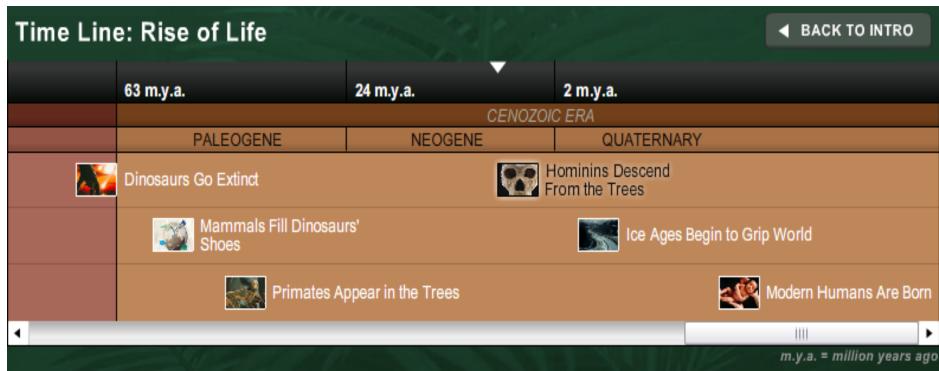


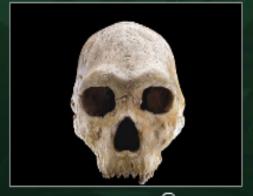


Primates Appear in the Trees

Exactly when the first primates appeared isn't clear. While teeth remains suggest their emergence could date as far back as the late Cretaceous, the earliest certain primate fossils are about 55 million years old. These belonged to tarsier-like mammals such as those in the genus *Teilhardina*, remains of which have been identified in North America, Asia, and Europe. They were small, furry, agile tree-dwellers with relatively large brains for their body size; well developed, grasping hands; and big, saucer-like eyes that



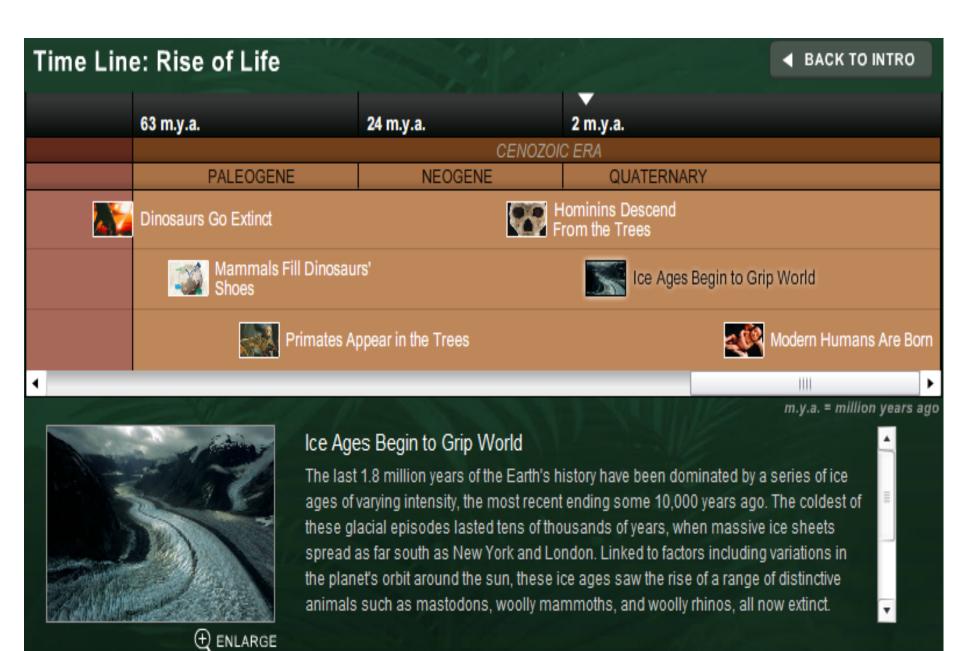




Hominins Descend From the Trees

Hominins—humans and their immediate ancestors—are thought to have split from the lineage that also gave rise to modern chimpanzees between six million and eight million years ago. The oldest discovered hominin remains (*Ardipithecus*) date to about 5.8 million years ago, with the australopithecines appearing about a million years later. Various australopithecine species have been described, most of them from fossils from the Great Rift Valley region of Africa. These hominins had brains similar in size to those

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Modern Humans Are Born

Fossils indicate our own species, *Homo sapiens*, arose in eastern Africa some 190,000 years ago. First venturing beyond Africa about 70,000 years ago, early modern humans eventually penetrated as far as Australia and South America. Hunter-gatherer groups in Europe and western Asia came into contact with closely related Neandertals, who subsequently died out—possibly because the newcomers outthought and outcompeted them. Some experts, however, suggest that the Neandertals and other non-African

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