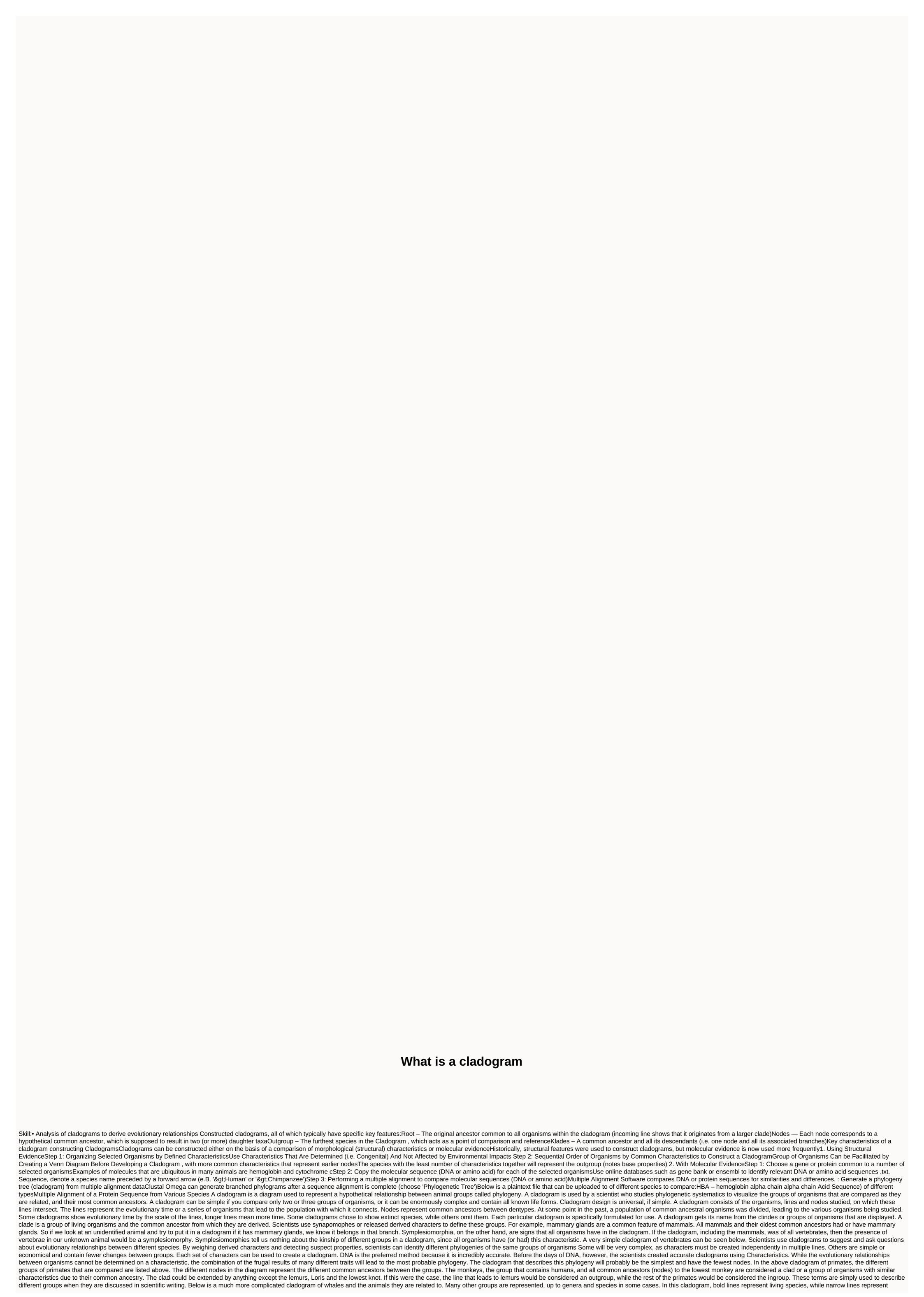
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extinct species from the fossil record. The numbers above each line represent the number of evolutionary changes that had to be made in this branch by the ancestral form. Overlooking the upper box of Cetaceamorpha, this branch represents whales (whales and dolphins) and their related ancestors. Until the discovery of the various fossils that bridge the gap between hippos and whales, the phylogeny of this tree was in question. However, these fossils have begun to close the gap between hippos and whales, forming a series of small steps. Near the top of the chart, the number of evolutionary changes jumps from 1 or 2 to 9 or 10 in each step. This represents an evolutionary gap that is still not understood. The ancestral forms of whales and dolphins presented on this cladogram would have been shallow aquatic animals, as their functional limbs show. As the whales' ancestors moved further out into the sea, it became increasingly unlikely that their fossilized remains would be found. Many characteristics were taken into account when creating this cladogram. For example, The Outgroup Ferae is the only group that does not have hooves or large toes. In addition, the Ferae have specialized carnivorous teeth. The rest of the groups are different various derived characters, such as humps in the camel, the presence of a ruminantiaphorpha and others. Whales are a particularly difficult group to suspect because there is a lack of fossil evidence and the great physiological difference between whales and their closest relatives. Without limbs, it is e.B. z.B. knowing that whales are related to limbed animals, unless evidence is found. Fortunately, new methods of DNA analysis allow the scientist to compare DNA directly, leading to a better understanding of the relationship between organisms and the way changes occur between populations. In the following cladograms it looks as if two different phylogenies are presented. In the cladogram on the right, it appears that A is more closely related to C than in the cladogram on the left. This is simply a trick of presentation, but does not represent any meaning in terms of kinship. These two cladograms are indeed a single phylogeny. When creating or reading Cladogram, it is important to remember that the only important features of the cladogram are the lines and nodes. In these two cladograms, the lengths of the lines are roughly the same and, more importantly, the nodes are in the same places. In both diagrams, A and B share a node that is further from the origin of the row in the chart. This tells us that A and B are more closely related to each other than C to both groups. The order of lines A and B and the orientation of the lines do not matter. A cladogram can be drawn from left to right, from right to left, from top to bottom, or from bottom to top. Some large cladograms are even designed in a circle to include all the groups they represent. In some cladograms, the evolutionary time is represented in millions of the lines. Phylogeny – A hypothetical relationship between organisms represented by a cladogram. Symplesiomorphy—A property that all organisms on a cladogram possess. Synapomorphics—A property that has only a specific group that is descended from a common ancestor. Homoplasy – A common character shared by convergent evolution, not mean decent. 1. Which groups are most closely related in the following cladogram? A. Beetles and Ants B. Flies and Beetles C. Moths and Flies C is correct. Of these decisions, moths and flies are the most related organisms after this cladogram. The flies are least related because they are separated by the most distance and the number of nodes. The beetles and ants are closer, but according to this diagram, it is the moths and flies that recently fell apart and share most of the properties. 2. You make a cladogram of fruits: a banana and orange, a red apple and a green apple. Just when it comes to appearance, which of them is an outgroup, and two belong on the node furthest from the beginning of the diagram? A. Orange; Banana and red apple B. banana; Orange and red apple C. banana; Red Apple and Green Apple C is right. Depending on the shape and appearance, the banana is the obvious outgroup. Unlike the other three fruits, it is rural and not round. The two closest related extend farthest from the origin from the node. Red and green apples are obviously more similar than an orange, which has a completely different skin type, let alone color. This makes the apples furthest from the origin. 3. Look at the cladogram referenced #1. Which of the following features is a symplesiomorphy of the cladogram? A. Wing B. A tongue to collect nectar C. Wings that fold under a hard shell A is correct. All organisms in this cladogram have wings. Unless DNA or fossil evidence shows otherwise, it should be assumed that the wings originated and that all groups have since adapted their wings. Wings are therefore a symplesiomorphy. However, wings that fold under a shell are a common derived character of the beetles, which makes the choice C a synapomorphic. Likewise, a tongue to collect nectar is a property derived from different groups of moths, butterflies, bees and some flies. A nectar collection tongue is therefore also a synapomorphic. Synapomorphics.

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