

K-means clustering specifically tries to put the data into the number of clusters you tell it to.



The diagram illustrates three distinct hierarchical structures, each represented by a tree with 4 nodes, arranged sequentially along a horizontal timeline. The timeline is marked by 12 nodes (4 nodes per tree). The first tree (left) shows a root node branching into two children, which then branch into four leaves. The second tree (middle) shows a root node branching into two children, which then branch into four leaves. The third tree (right) shows a root node branching into two children, which then branch into four leaves. The trees are connected by a long horizontal line, suggesting a sequence of operations or a timeline.