

---

**Algorithm 2:** Agglomerative hierarchical clustering

---

1. Begin with  $n$  observations and a measure of all the  $n(n - 1)/2$  pairwise dissimilarities and treat each observations as its own cluster.
  2. for  $i = n, n - 1, \dots, 2$  : do
    1. Examine all pairwise inter-cluster dissimilarities among the  $i$  clusters and identify the pair of clusters that are the most similar.
    2. Fuse these 2 clusters. The dissimilarity between these two clusters indicates the height in the dendrogram at which the fusion should be placed.
    3. Compute the new pairwise inter-cluster dissimilarities among the  $i - 1$  remaining clusters
- end
-