

## ⊕ Optimal Spanning Trees

## 1 Why

Trees have the fewest edges of any connected graph. Among spanning trees of a weighted graph, can we find the one for which the sum of weights on the edges is minimal.

## 2 Why

A minimal spanning tree is a spanning tree whose weight is minimal among all spanning trees. A maximal spanning tree is a spanning tree whose weight is maximal among all spanning trees.

