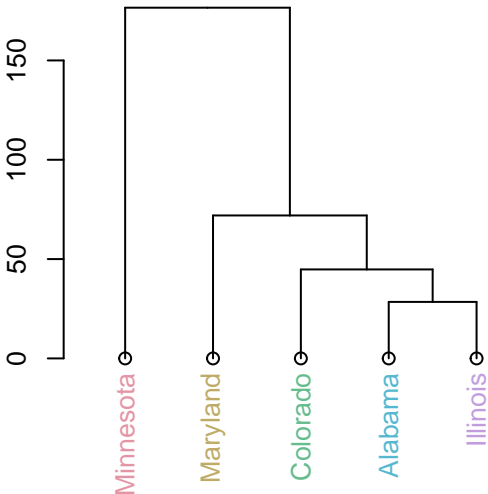


A phylogenetic tree illustrating the relationships between five US states. The tree is rooted at Minnesota (pink label). The first major split occurs at a distance of approximately 150, separating Minnesota from the other four states. The remaining four states form a clade that splits at a distance of approximately 75, separating Maryland (yellow label) from the other three. The remaining three states (Colorado, Alabama, and Illinois) form a clade that splits at a distance of approximately 45, separating Colorado (green label) from Alabama and Illinois. Alabama and Illinois form a sister pair that splits at a distance of approximately 30. The scale bar on the left indicates genetic distance from 0 to 150.

```

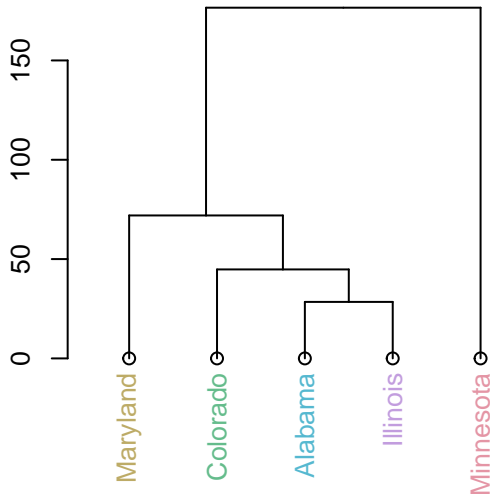
graph LR
    Root --- Node1[~150]
    Node1 --- Minnesota((Minnesota))
    Node1 --- Node2[~75]
    Node2 --- Maryland((Maryland))
    Node2 --- Node3[~45]
    Node3 --- Colorado((Colorado))
    Node3 --- Node4[~30]
    Node4 --- Alabama((Alabama))
    Node4 --- Illinois((Illinois))
  
```



A phylogenetic tree with a vertical scale on the left ranging from 0 to 150. The tree shows the following relationships: Minnesota is the outgroup. The next node splits into Maryland and Colorado on one side, and a clade containing Alabama and Illinois on the other. Within that clade, Alabama and Illinois are sister taxa. The tree is rooted at the bottom left.

```

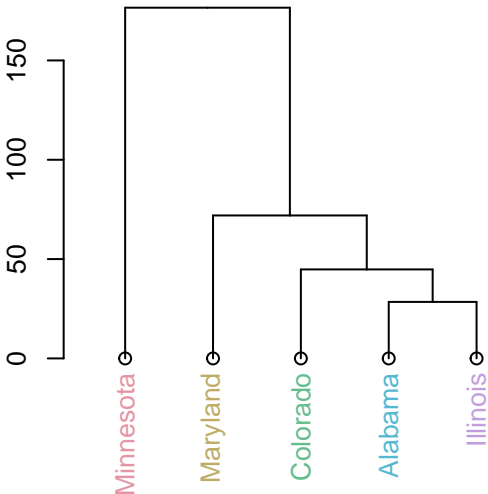
graph TD
    Root(( )) --- Node1(( ))
    Root --- Minnesota[Minnesota]
    Node1 --- Node2(( ))
    Node2 --- Maryland[Maryland]
    Node2 --- Node3(( ))
    Node3 --- Colorado[Colorado]
    Node3 --- Node4(( ))
    Node4 --- Alabama[Alabama]
    Node4 --- Illinois[Illinois]
  
```



A phylogenetic tree illustrating the relationships between five US states. The tree is rooted at Minnesota (pink). The first major split separates Minnesota from a clade containing Maryland, Colorado, Alabama, and Illinois. Within this clade, Maryland (yellow) branches off next. The remaining three states form a sub-clade where Colorado (green) and Alabama (blue) are sister taxa, and Illinois (purple) branches off from Alabama. The scale bar on the left indicates genetic distance with markers at 0, 50, 100, and 150.

```

graph LR
    Root --- Minnesota
    Root --- Node1
    Node1 --- Maryland
    Node1 --- Node2
    Node2 --- Colorado
    Node2 --- Node3
    Node3 --- Alabama
    Node3 --- Illinois
  
```



A phylogenetic tree illustrating the relationships between five US states. The tree is rooted at the bottom left. The scale on the left ranges from 0 to 150. The states are labeled at the tips of the branches: Colorado (green), Alabama (blue), Illinois (purple), Maryland (yellow), and Minnesota (red). The tree shows that Colorado and Alabama are sister taxa, followed by Illinois, then Maryland, and finally Minnesota as the outgroup.

```

graph LR
    Root --- Node1
    Root --- Minnesota
    Node1 --- Node2
    Node2 --- Colorado
    Node2 --- Node3
    Node3 --- Alabama
    Node3 --- Node4
    Node4 --- Illinois
    Node4 --- Maryland
  
```

