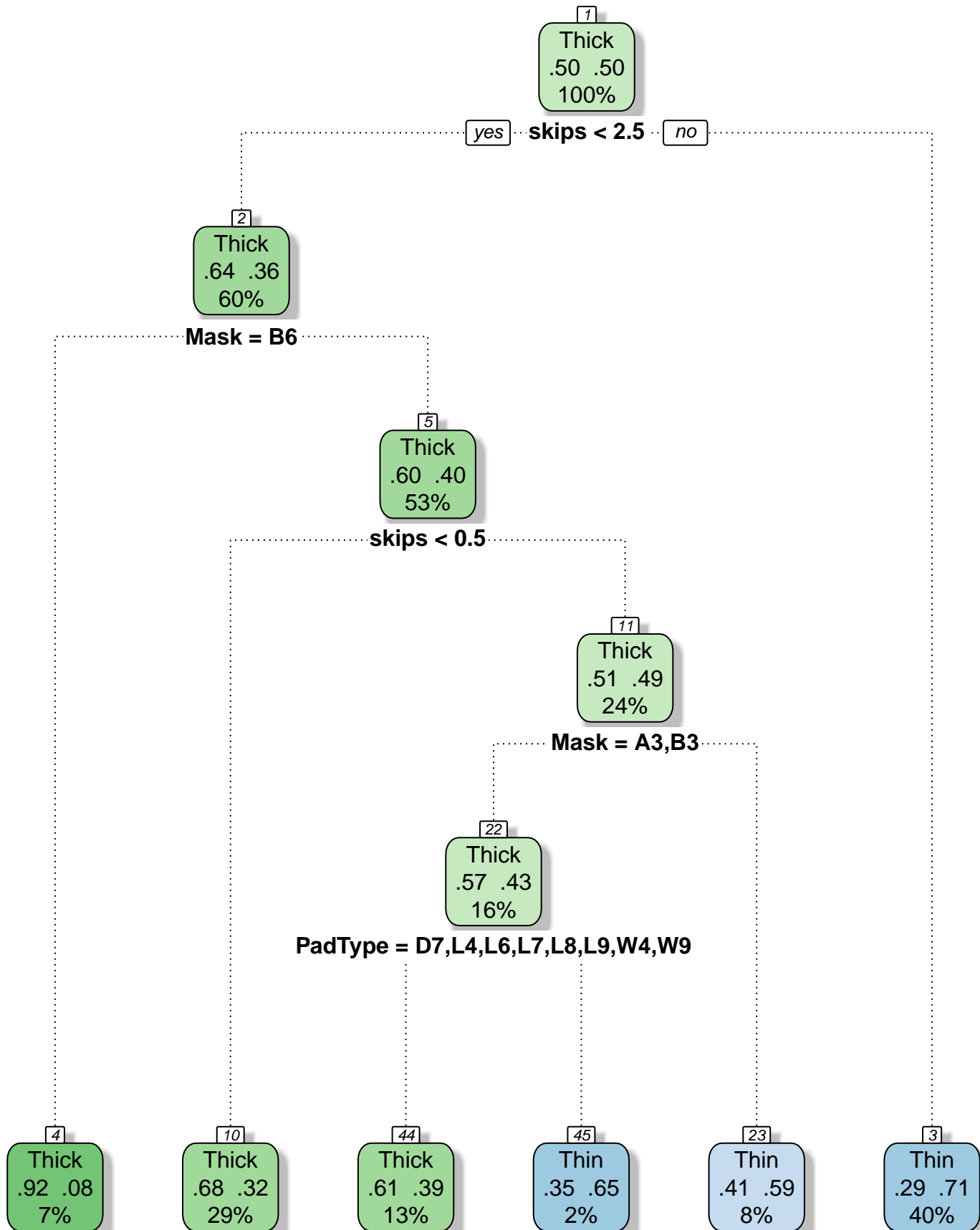
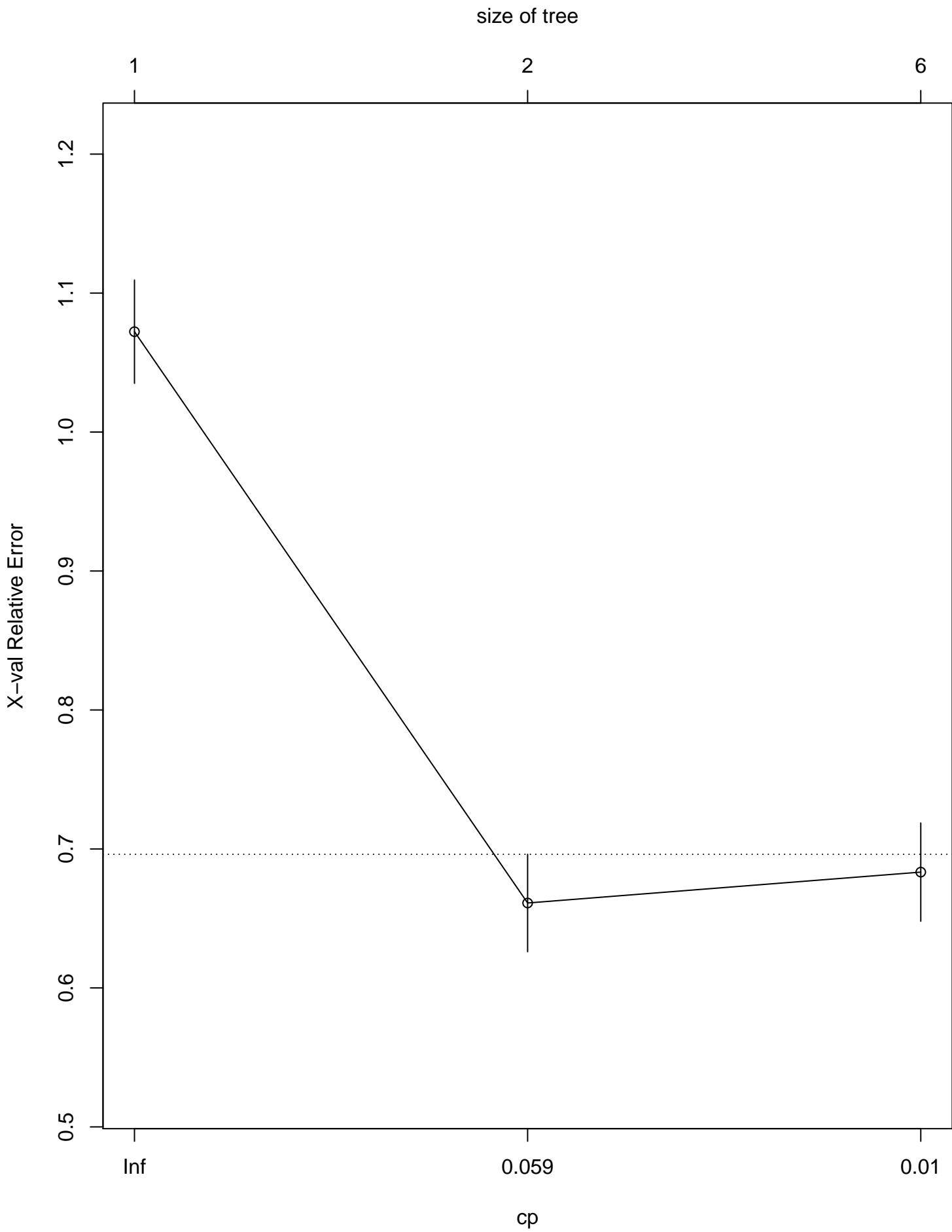
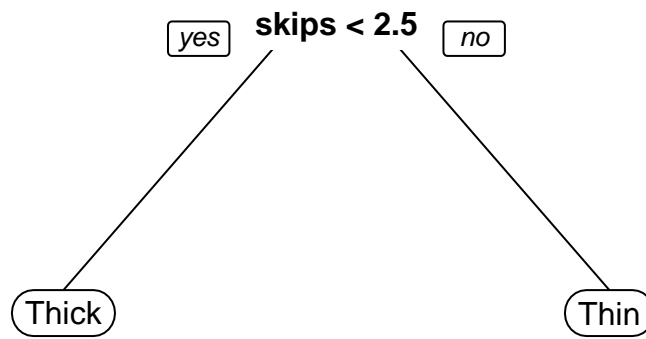


# Decision Tree for Solder



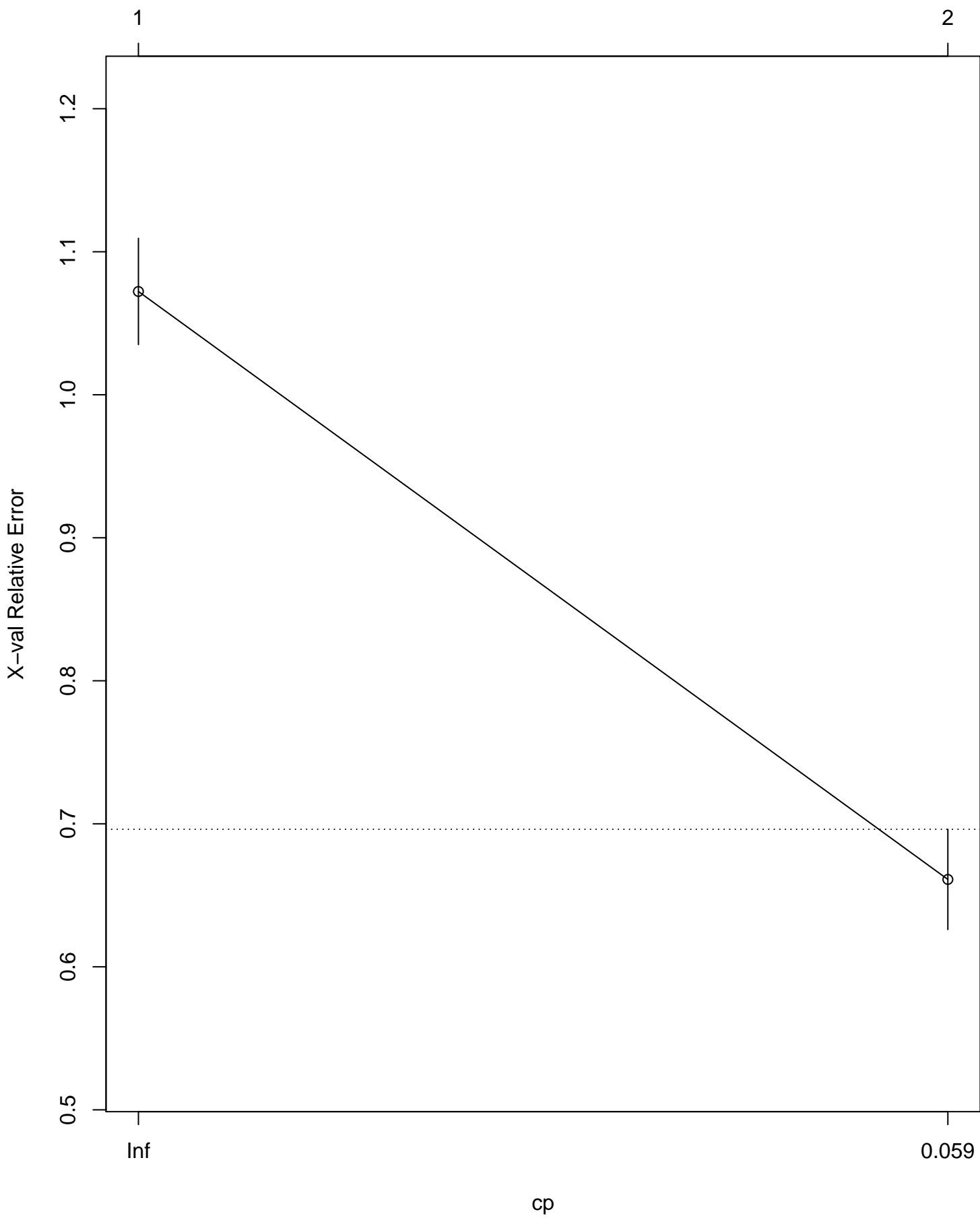


## Pruned Tree

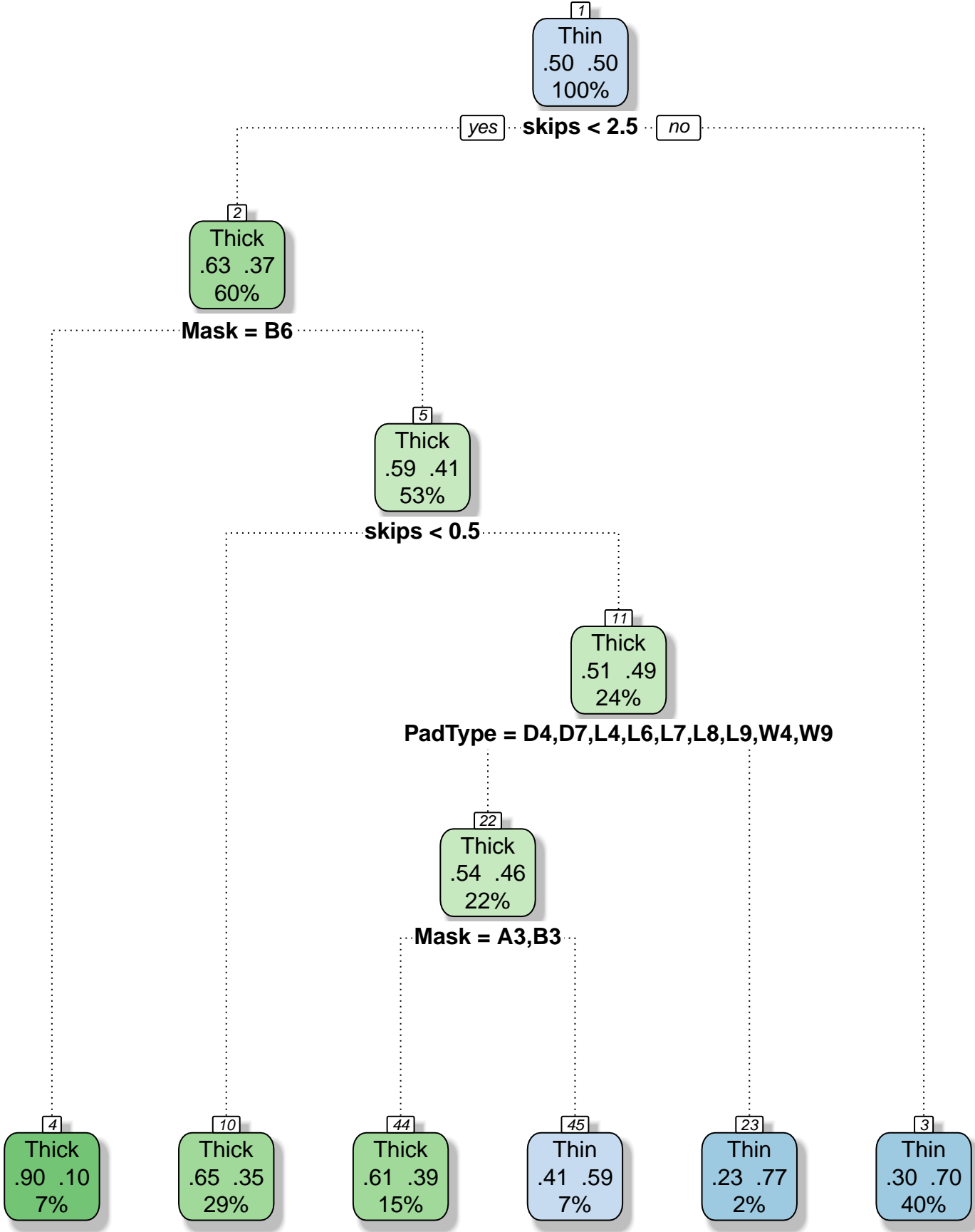


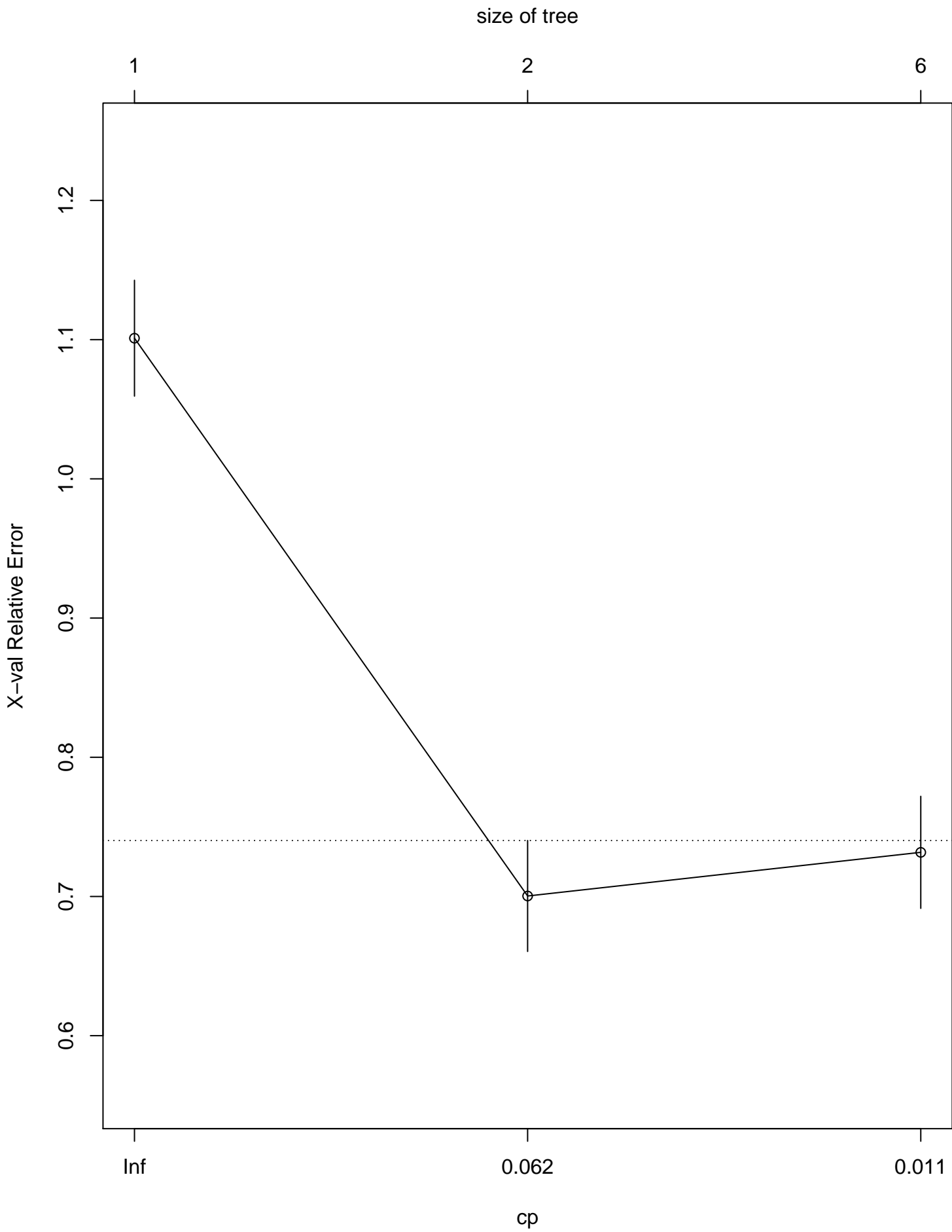
Using Solder Tree

size of tree

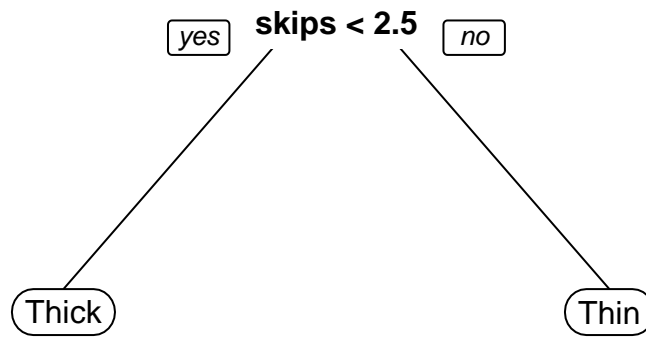


Training Decision Tree for Solder



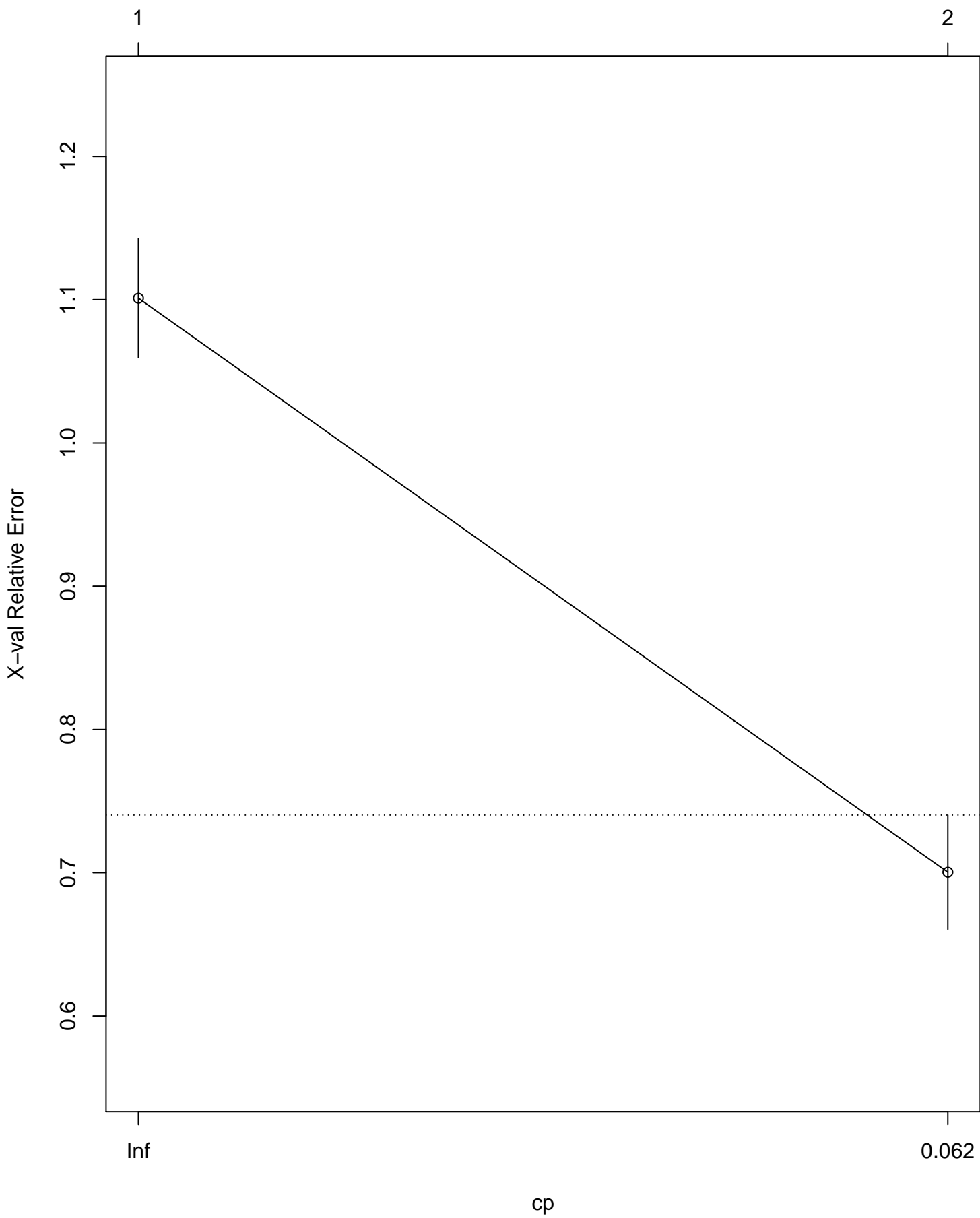


## Pruned Tree from Training Data

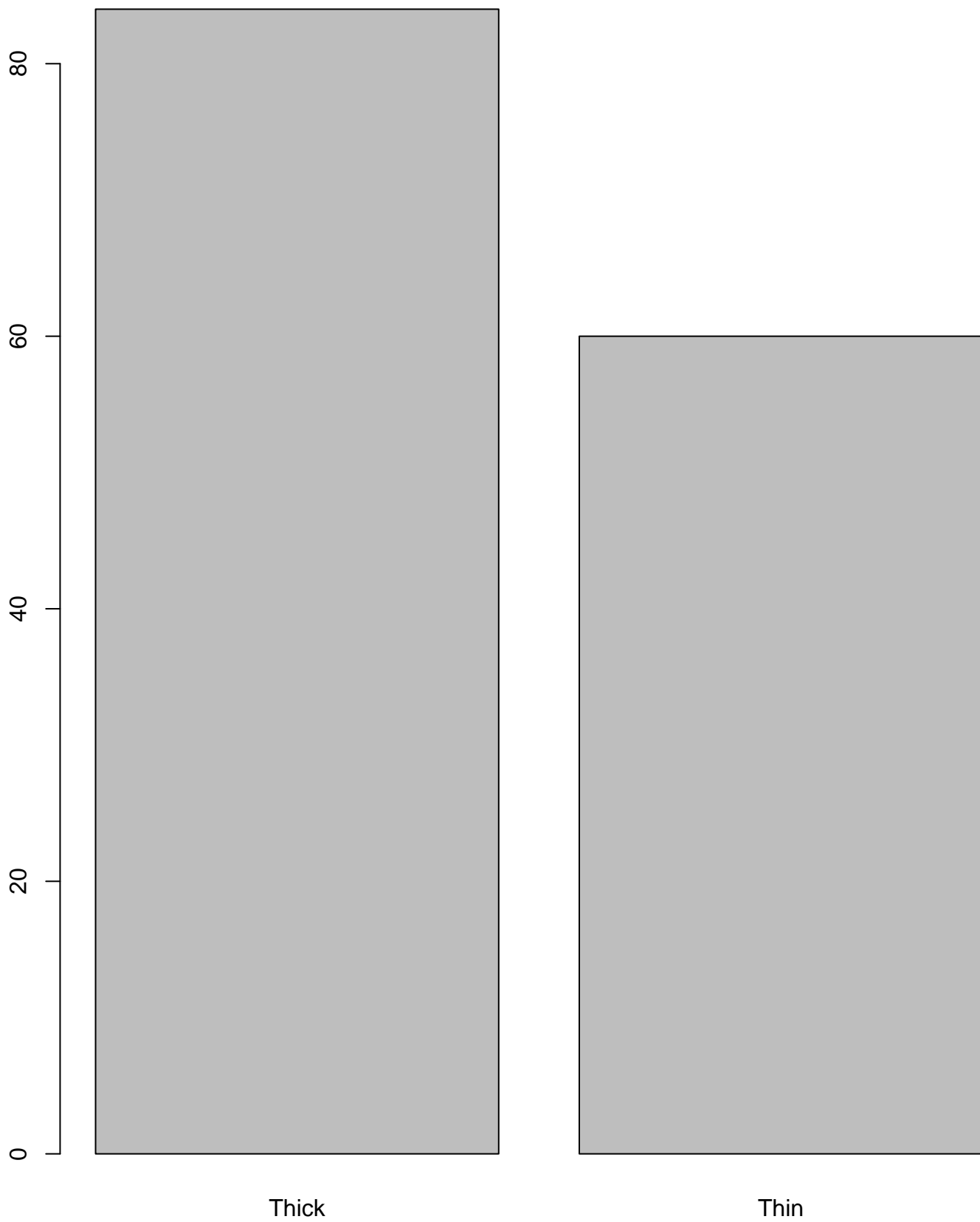


Using Solder Tree in Training Data Set

size of tree







Training Decision Tree for 90 percent data

Solder

Thick  
.50 .50  
100%

yes skips < 2.5 no

2  
Thick  
.64 .36  
60%

Mask = B6

5  
Thick  
.61 .39  
53%

skips < 0.5

11  
Thick  
.51 .49  
24%

PadType = D7,L8,L9

23  
Thin  
.46 .54  
17%

Mask = A3,B3

46  
Thick  
.53 .47  
12%

PadType = L4,L6,L7,W4,W9

4  
Thick  
.93 .07  
7%

10  
Thick  
.69 .31  
29%

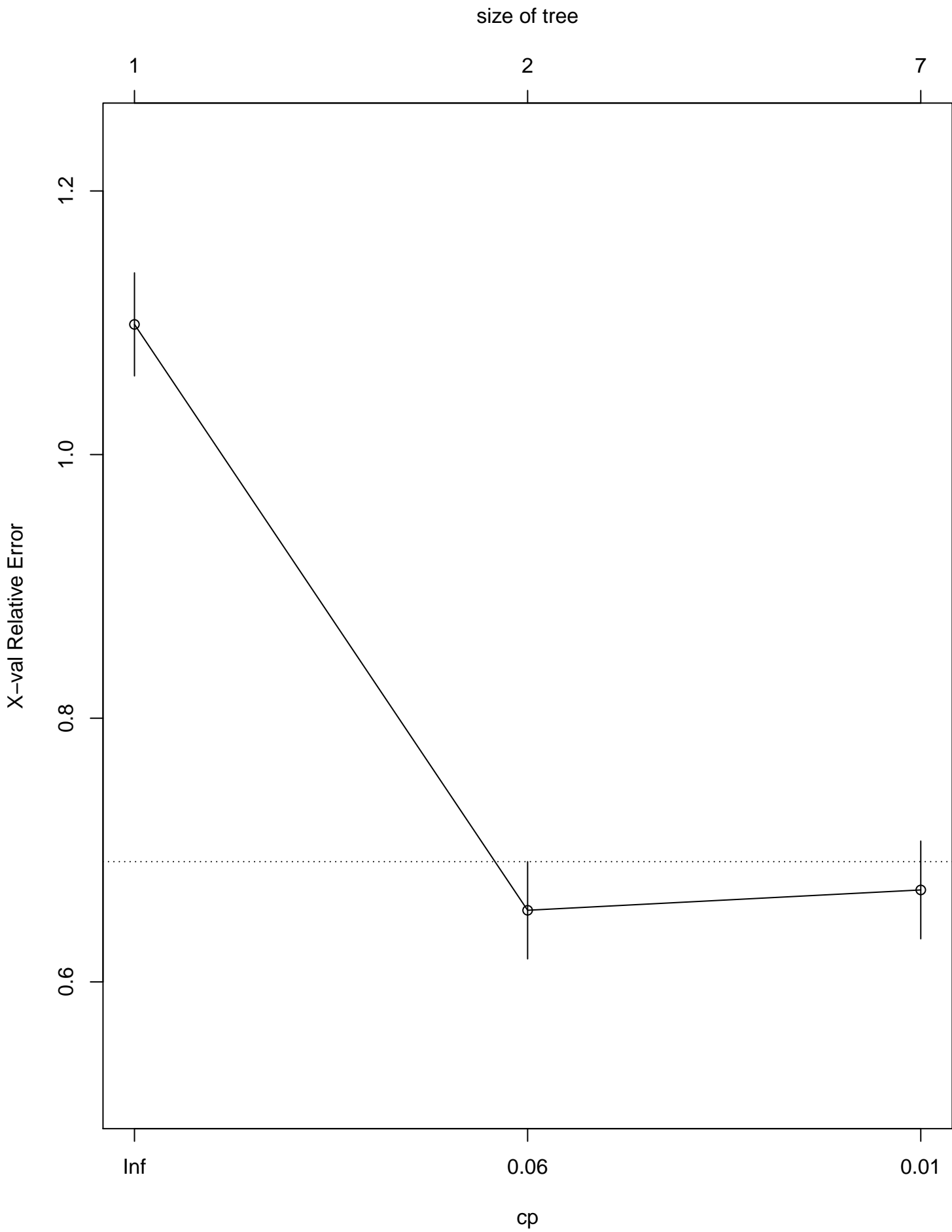
22  
Thick  
.65 .35  
7%

92  
Thick  
.57 .43  
9%

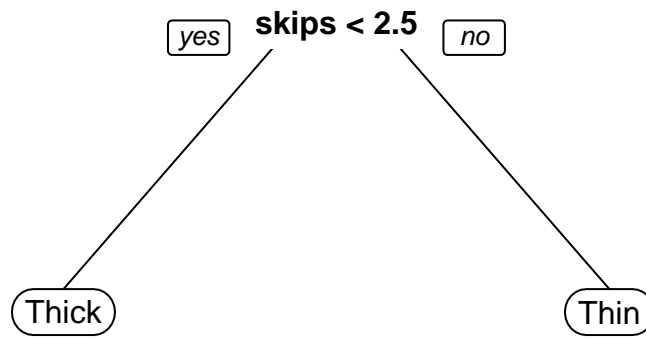
93  
Thin  
.35 .65  
3%

47  
Thin  
.29 .71  
5%

3  
Thin  
.28 .72  
40%



## Pruned Tree from Training 90 percent Data



Using Solder Tree in Training Data Set

size of tree

