Optimal SearchSettings

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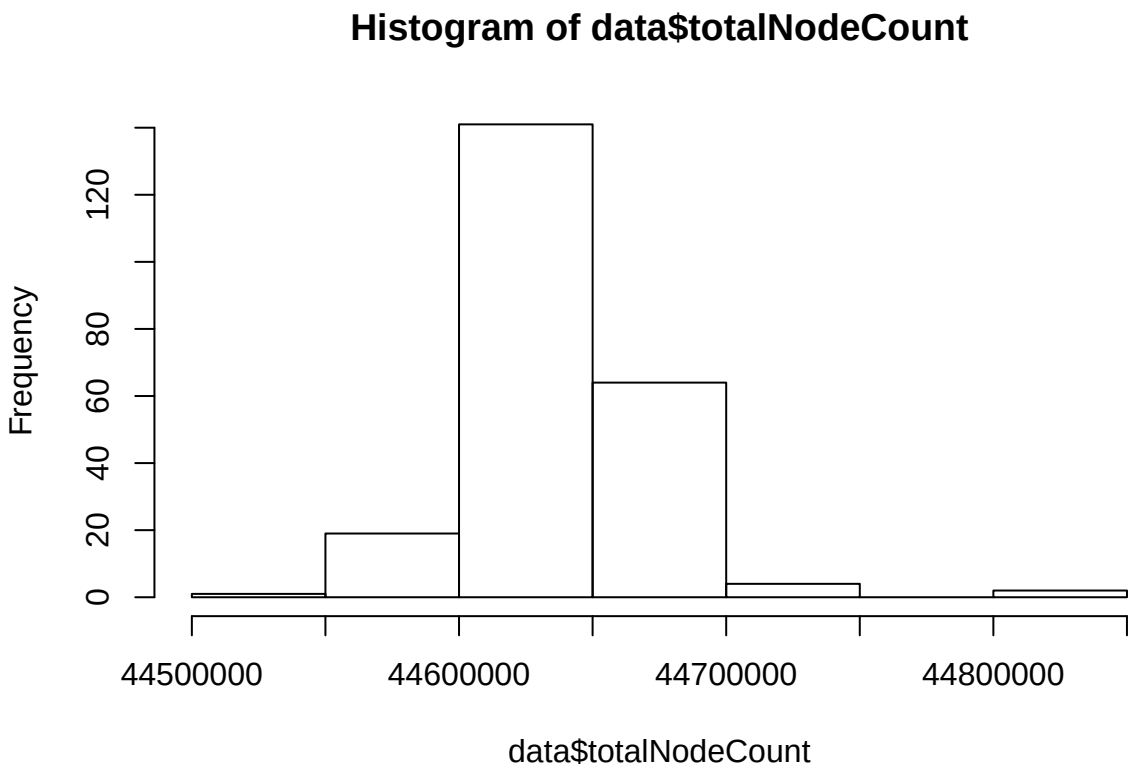
23 prosince 2018

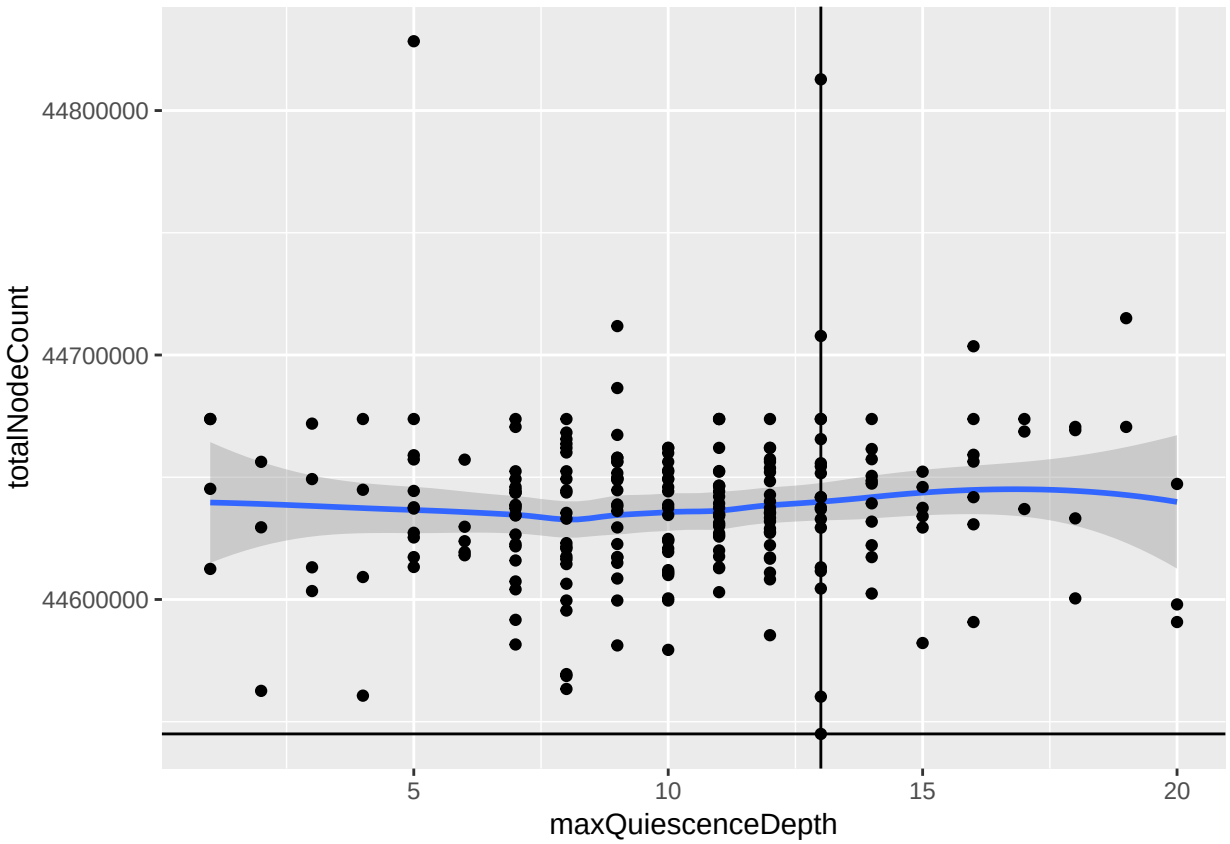
```
rawData <- read.csv('statistics.csv');
rawDataCount <- nrow(rawData);
droppedRows = round(0.02 * rawDataCount);

data <- rawData[order(rawData$totalNodeCount), ][droppedRows:rawDataCount, ];

minNodeCount <- min(data$totalNodeCount);
minRow <- data[data$totalNodeCount == minNodeCount, ];

minRow
```

```
##    maxQuiescenceDepth maxCheckSearchDepth nullMoveReduction
## 47                 13                  11                 4
##    minExtensionHorizon simpleCheckExtension attackCheckExtension
## 47                   2                   0           0.7509766
##    forcedMoveExtension mateExtension rankAttackExtension
## 47           0.6708984           0.5           0.9521484
##    pawnOnSevenRankExtension protectingPawnOnSixRankExtension
## 47                0.9853516                                1
##    recaptureMinExtension recaptureMaxExtension recaptureBeginMinTreshold
## 47              0.171875             0.9580078                      7.381
##    recaptureBeginMaxTreshold recaptureTargetTreshold totalTime
## 47                     8.317                   6.029     38941
##    totalNodeCount
## 47       44545013
```

```
hist(data$totalNodeCount)
```

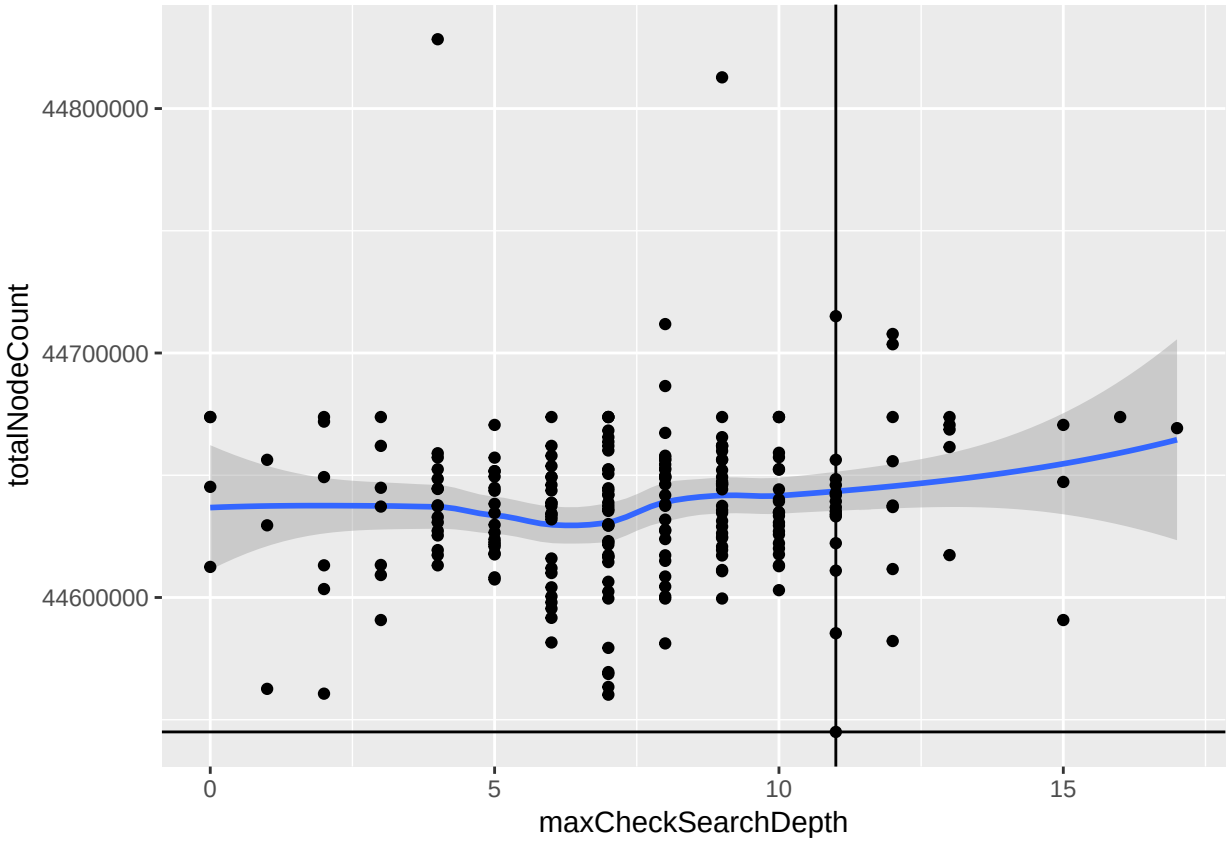



```
geom = 'smooth';

ggplot(data, aes (x = maxQuiescenceDepth, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_vl

## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



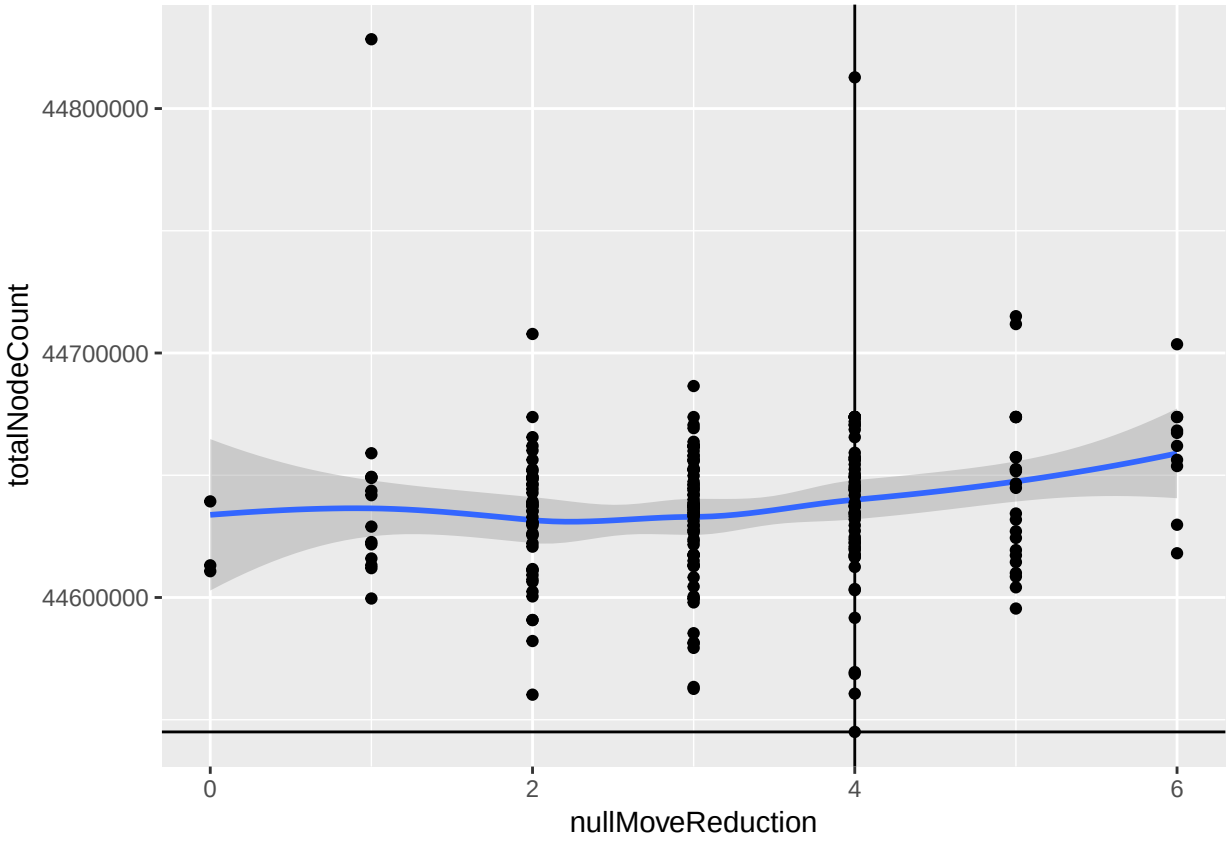

```
ggplot(data, aes (x = maxCheckSearchDepth, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_v
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



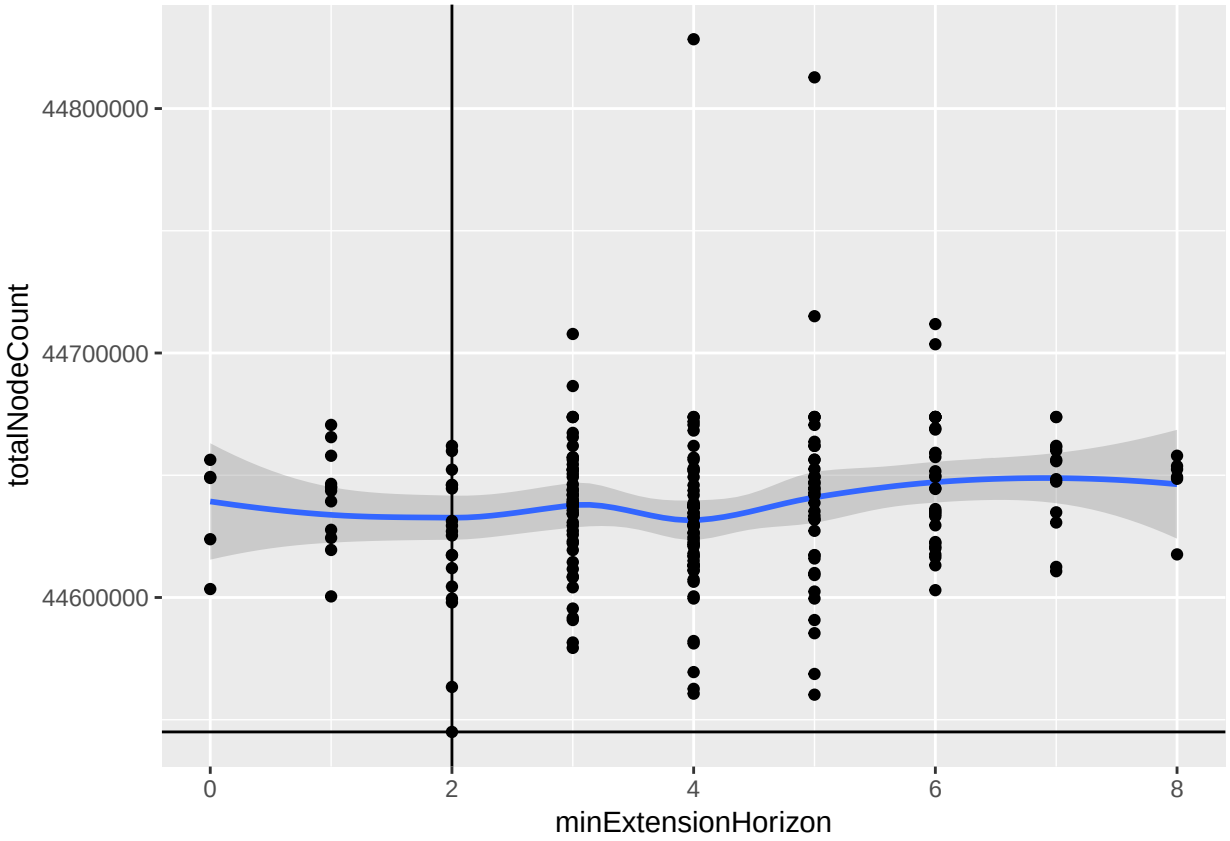

```
ggplot(data, aes (x = nullMoveReduction, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_vli
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



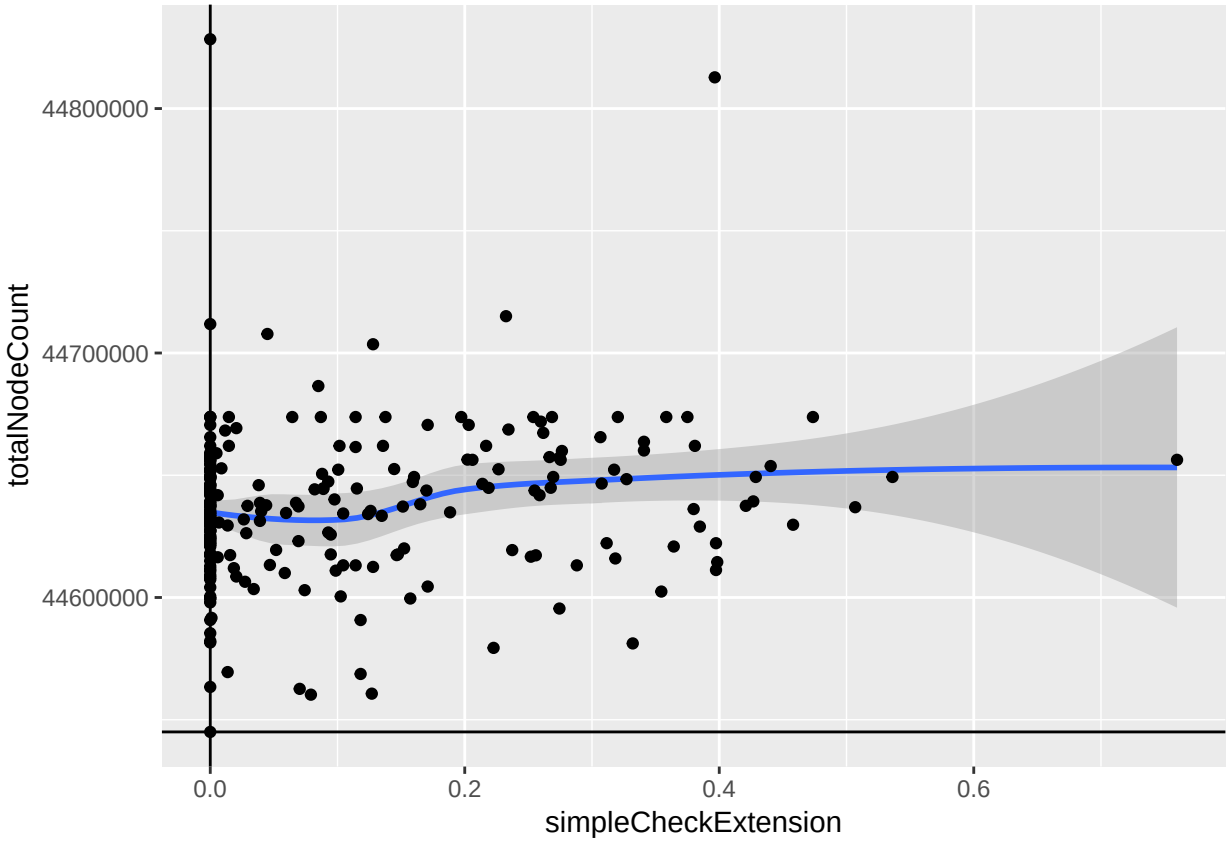

```
ggplot(data, aes (x = minExtensionHorizon, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_v
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



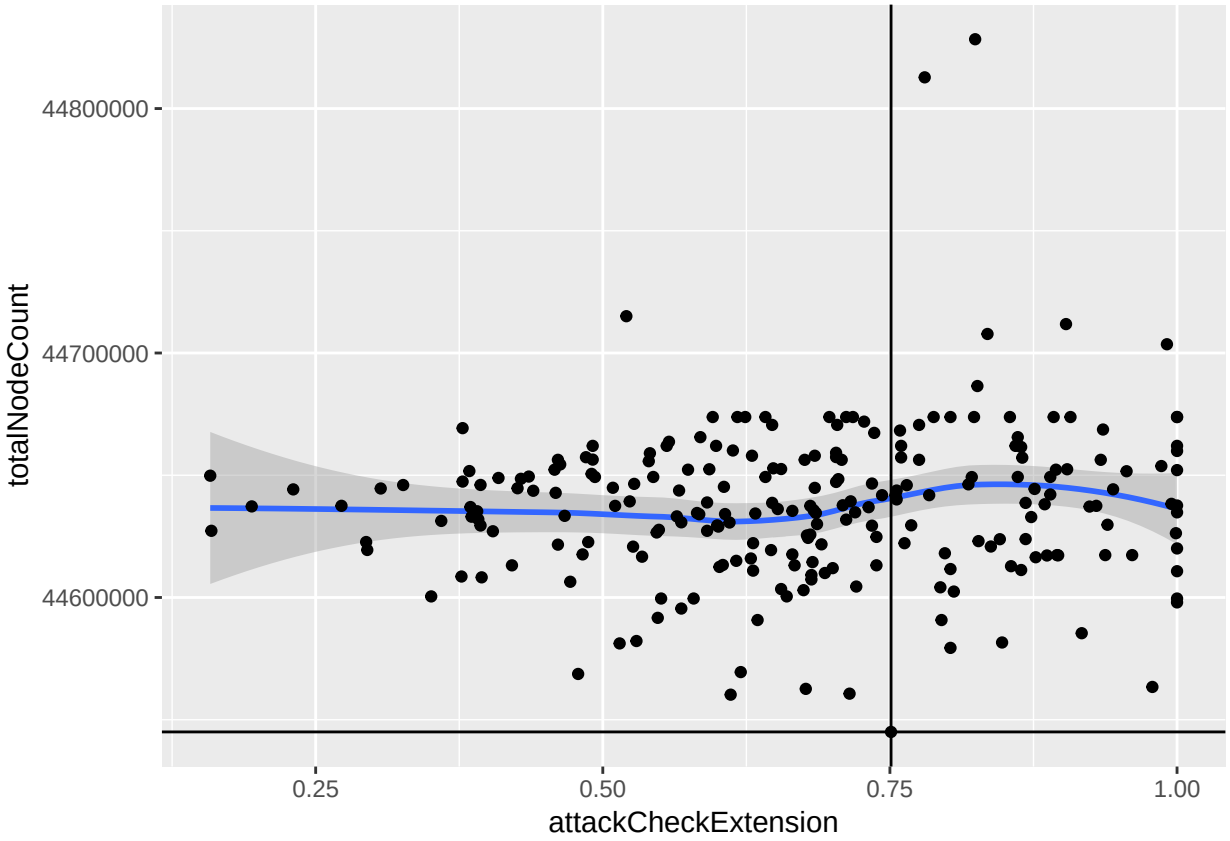

```
ggplot(data, aes (x = simpleCheckExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



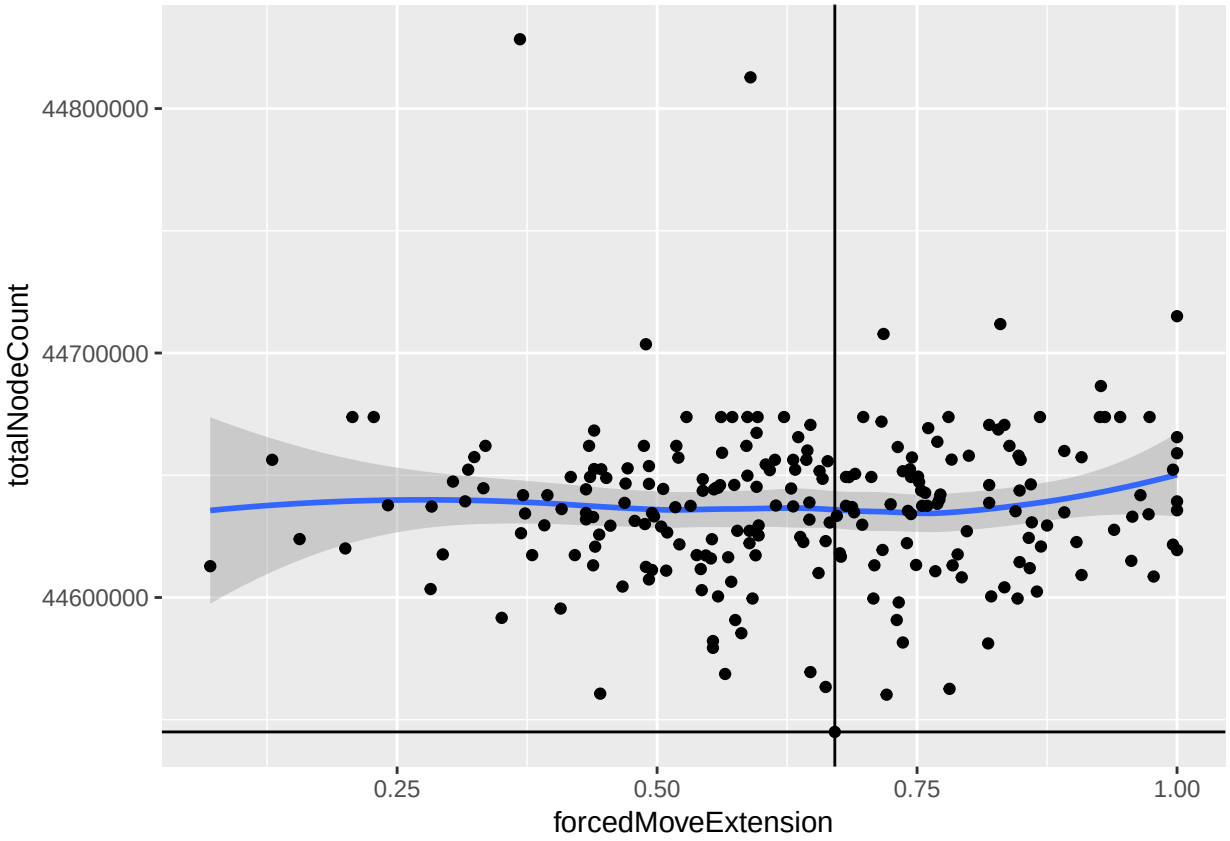

```
ggplot(data, aes (x = attackCheckExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



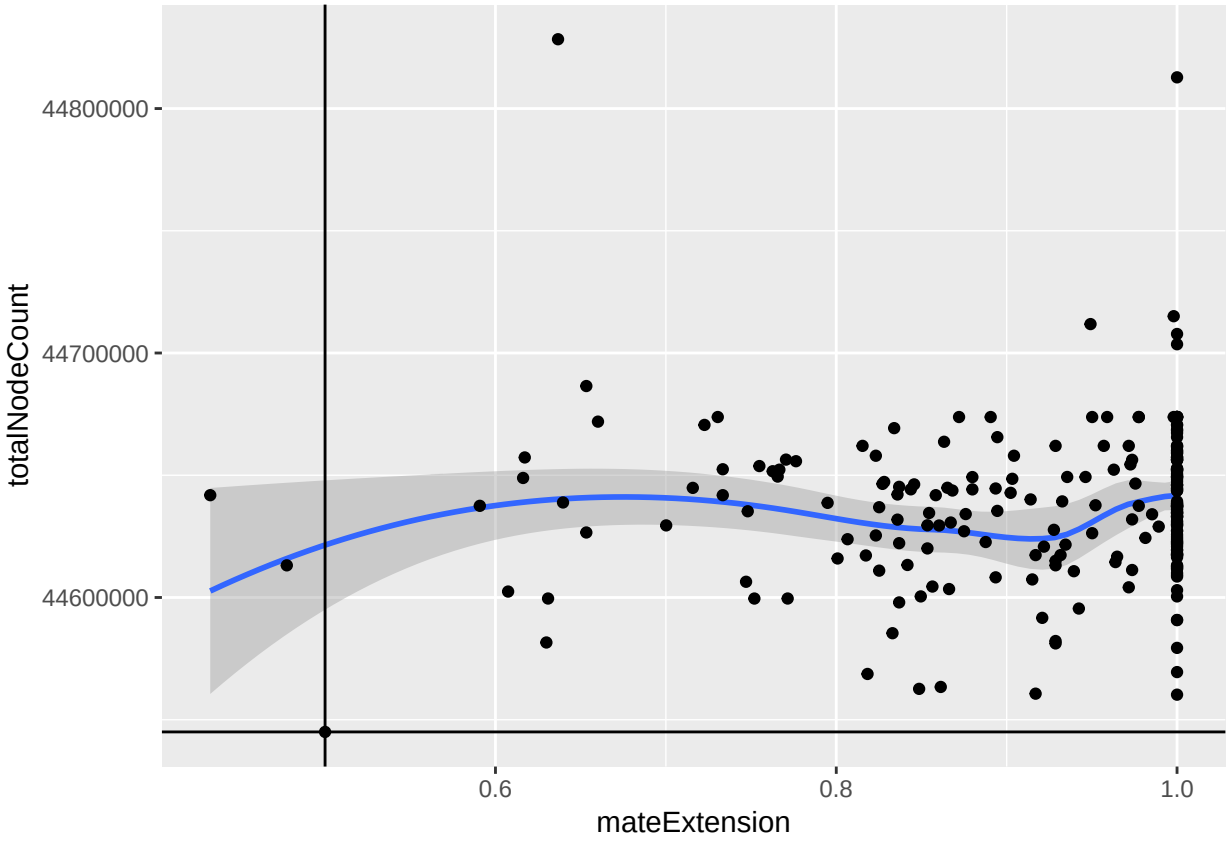

```
ggplot(data, aes (x = forcedMoveExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_v
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



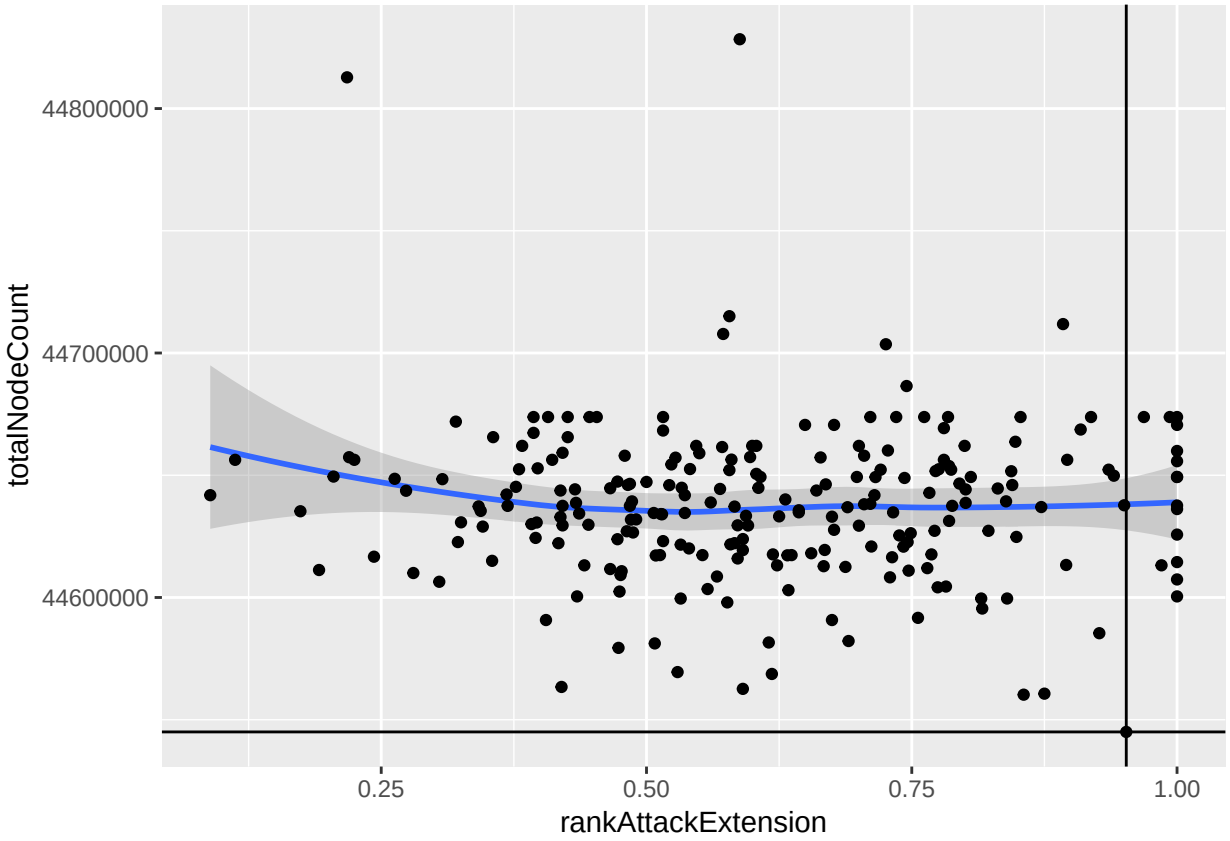

```
ggplot(data, aes (x = mateExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_vline(x
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



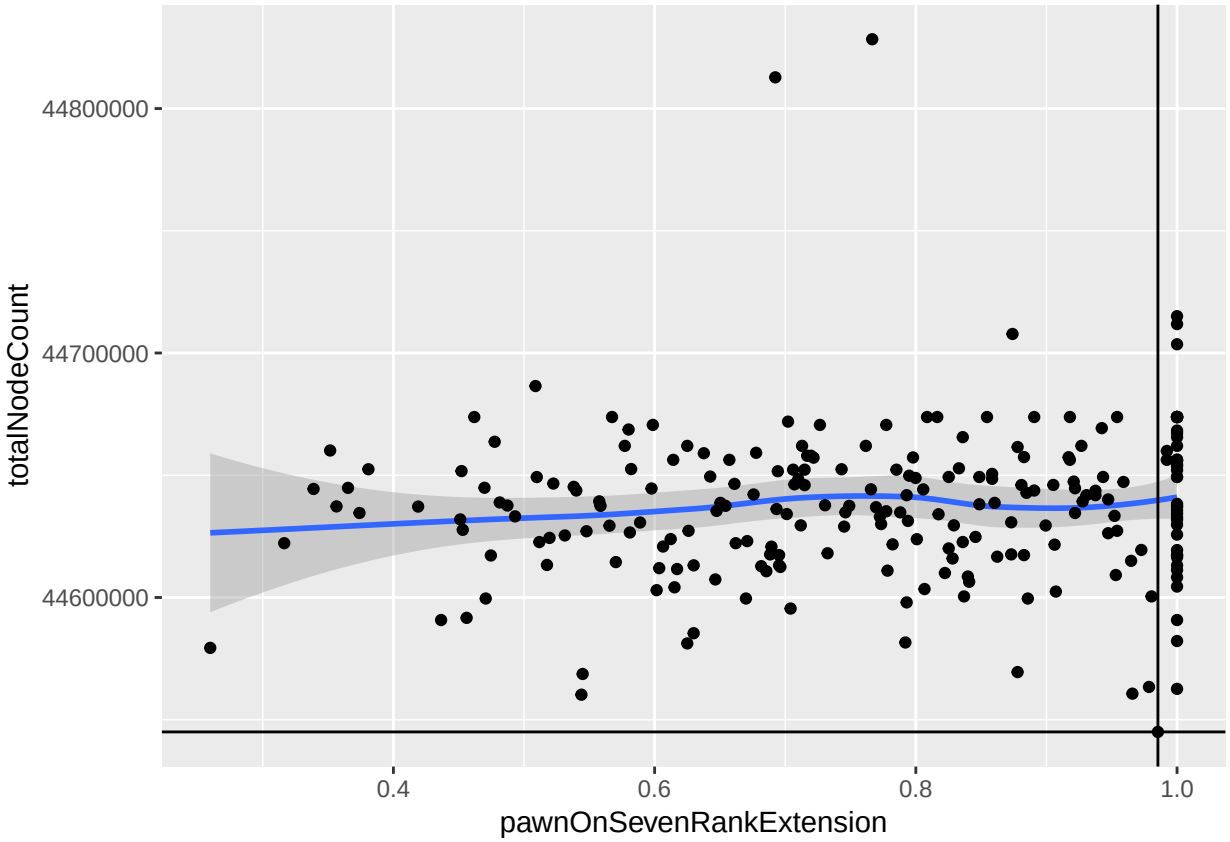

```
ggplot(data, aes (x = rankAttackExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_v
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



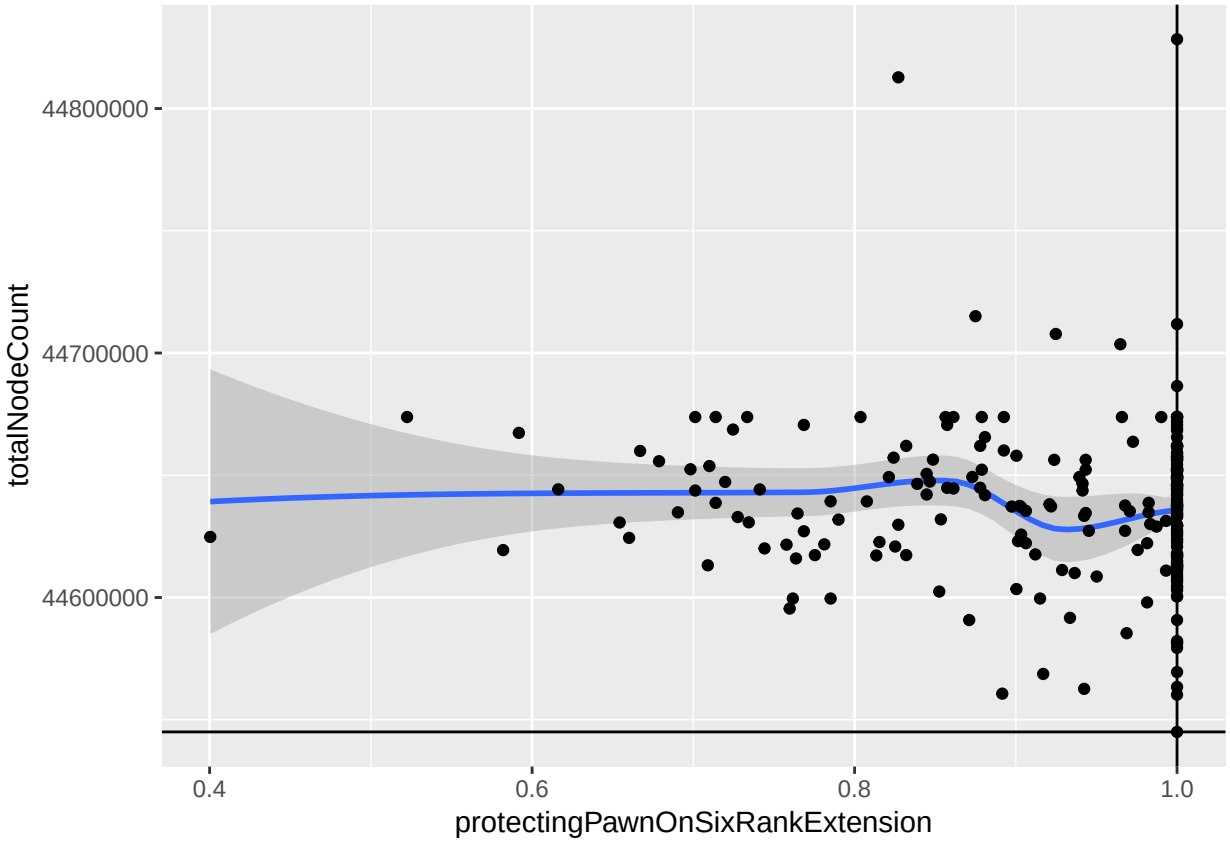

```
ggplot(data, aes (x = pawnOnSevenRankExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + g
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



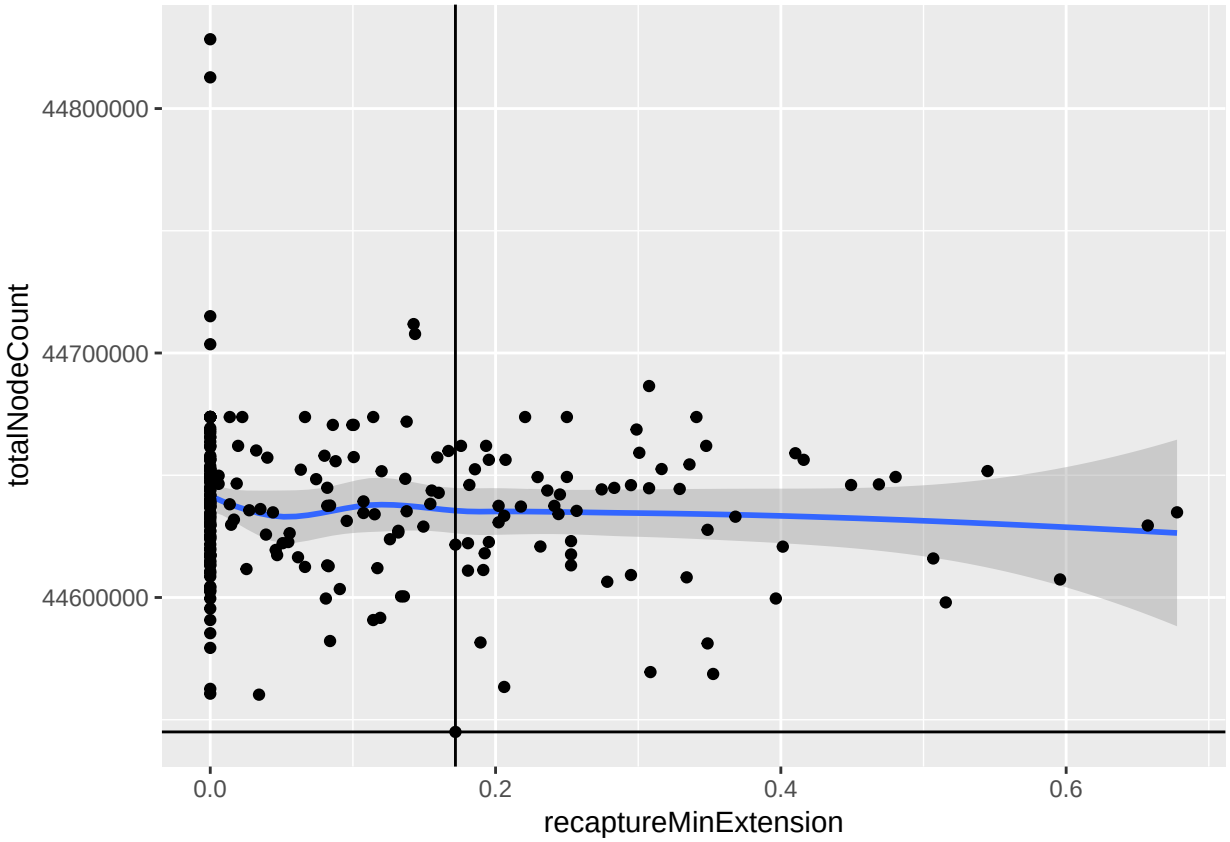

```
ggplot(data, aes (x = protectingPawnOnSixRankExtension, y = totalNodeCount)) + geom_smooth() + geom_poi
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



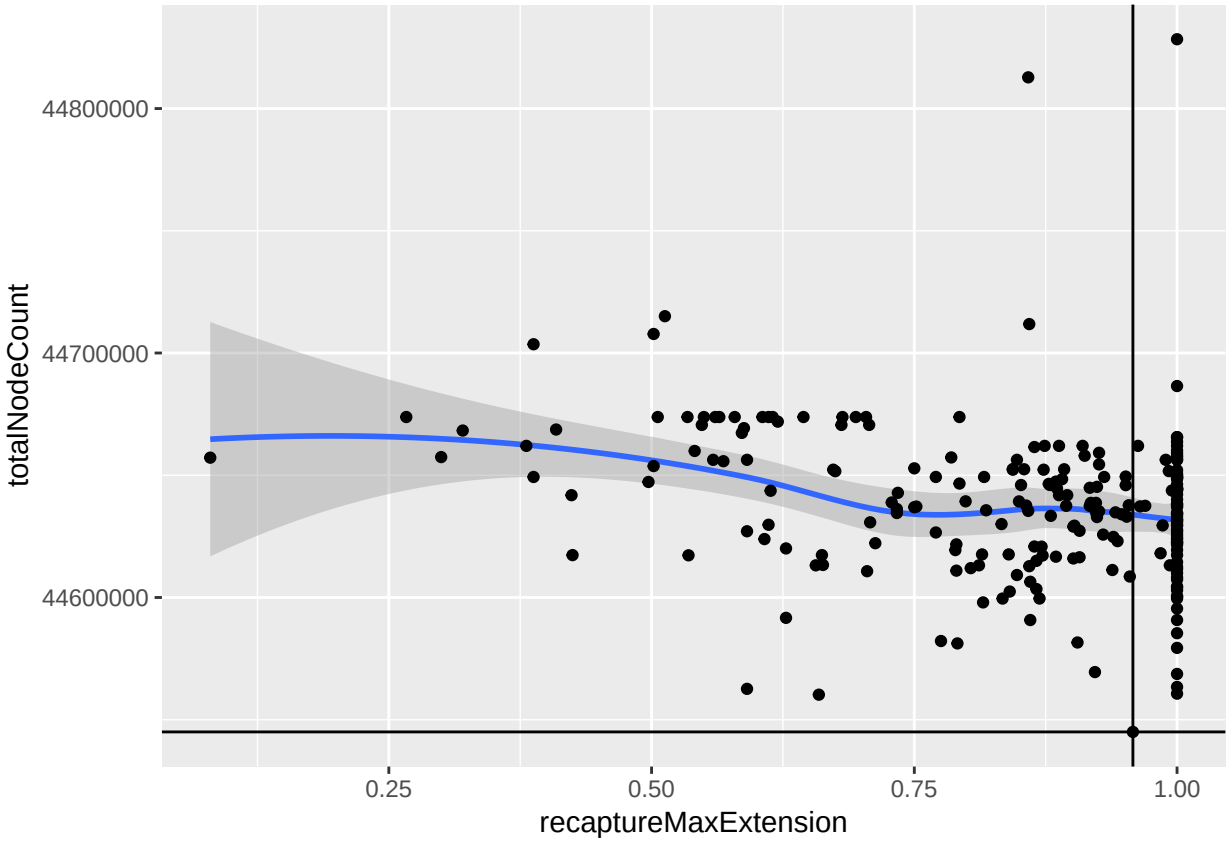

```
ggplot(data, aes (x = recaptureMinExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



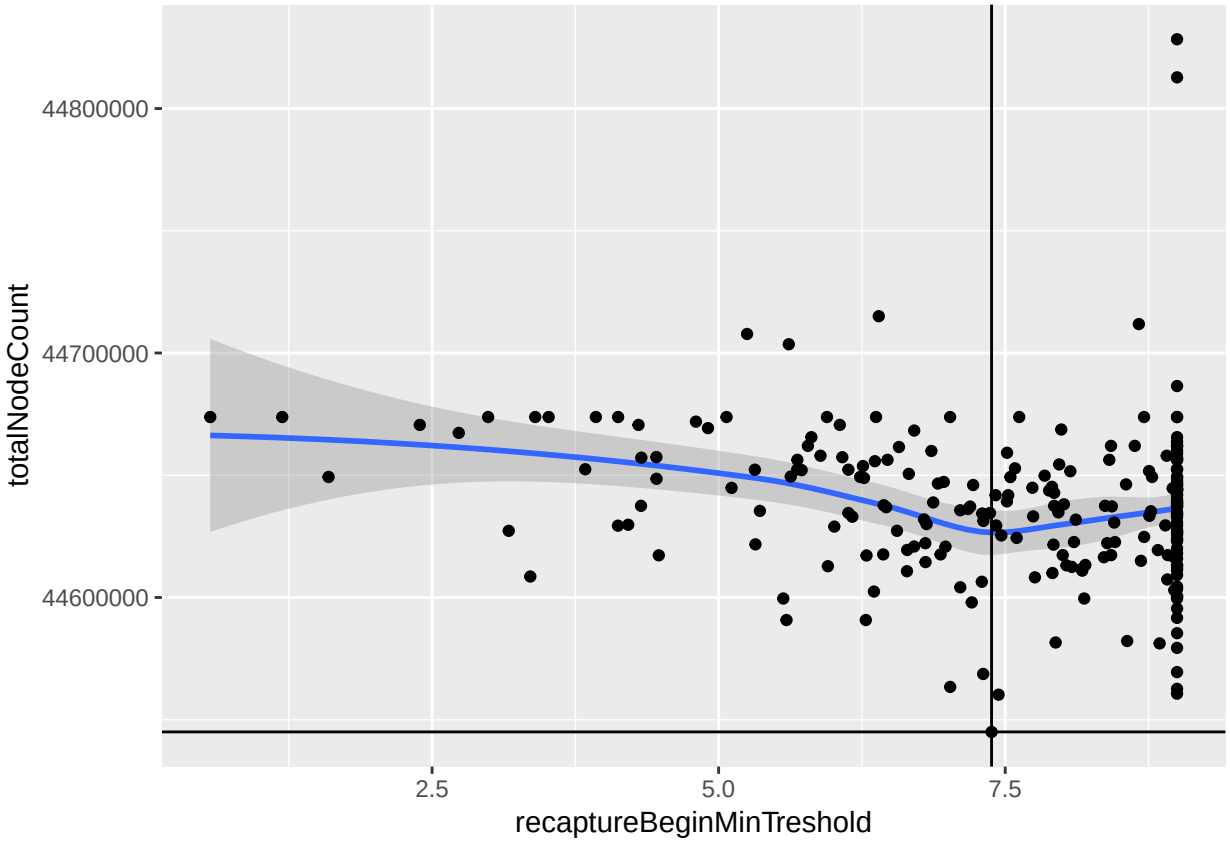

```
ggplot(data, aes (x = recaptureMaxExtension, y = totalNodeCount)) + geom_smooth() + geom_point() + geom_
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



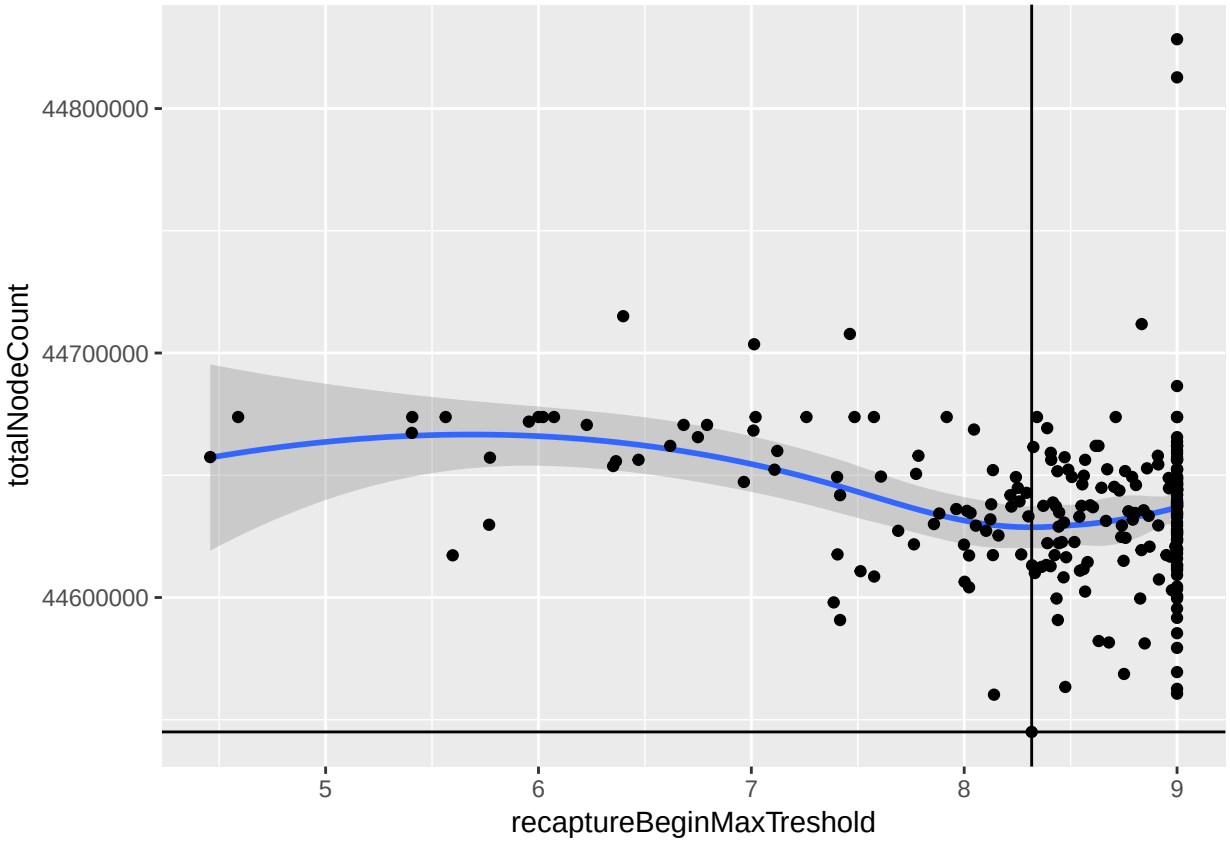

```
ggplot(data, aes (x = recaptureBeginMinTreshold, y = totalNodeCount)) + geom_smooth() + geom_point() + g
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



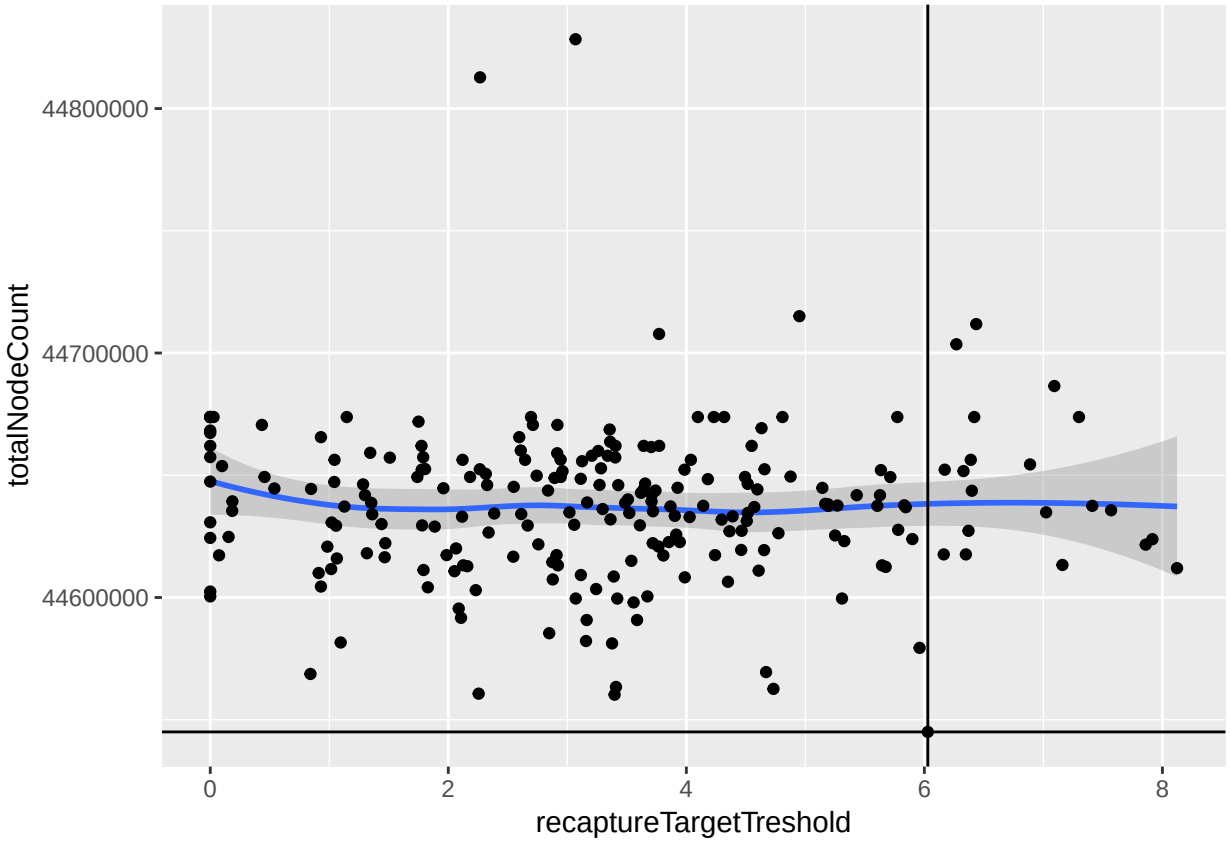

```
ggplot(data, aes (x = recaptureBeginMaxTreshold, y = totalNodeCount)) + geom_smooth() + geom_point() + g
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```




```
ggplot(data, aes (x = recaptureTargetTreshold, y = totalNodeCount)) + geom_smooth() + geom_point() + ge
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```


44800000
44700000
44600000
totalNodeCount
0
2
4
6
8
recaptureTargetTreshold