

Mixing Times

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Mixing Times of a Symmetric Normal Matrix

The Matrix

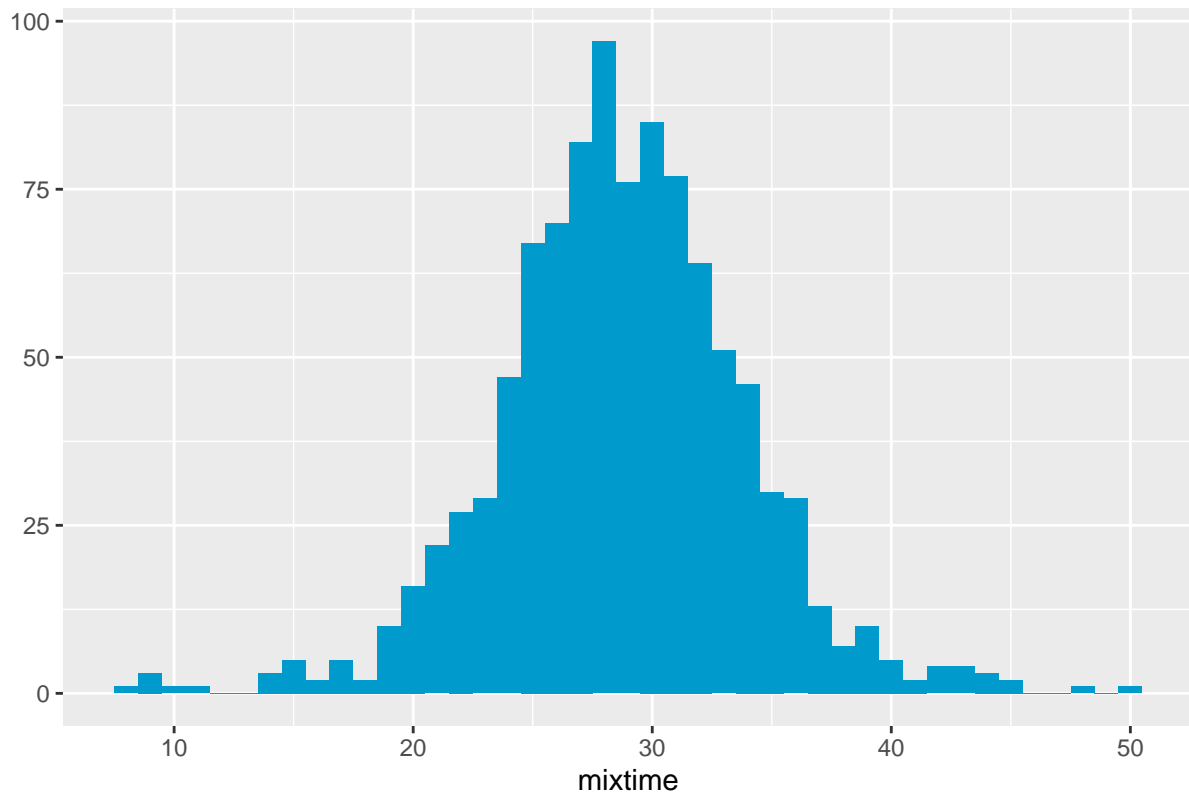
```
##          [,1]      [,2]      [,3]      [,4]
## [1,]  0.9660617  4.983026  0.2271859 -1.443443
## [2,]  4.9830255  5.537452  7.8788980  2.407751
## [3,]  0.2271859  7.878898  1.0914423 -6.081882
## [4,] -1.4434432  2.407751 -6.0818821  1.540684
```

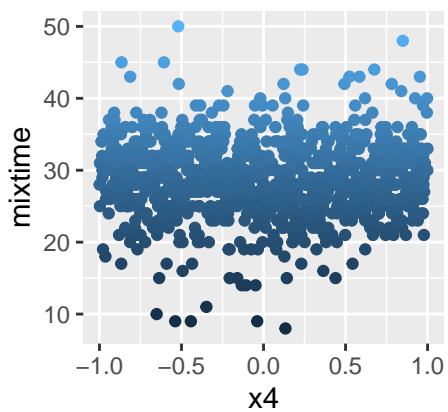
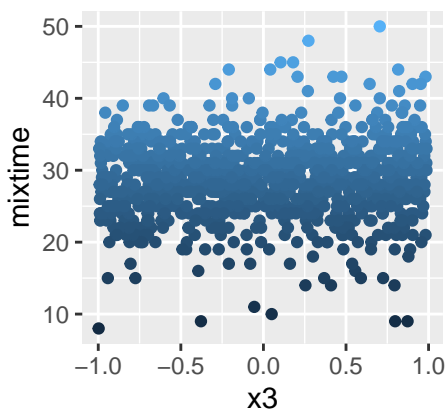
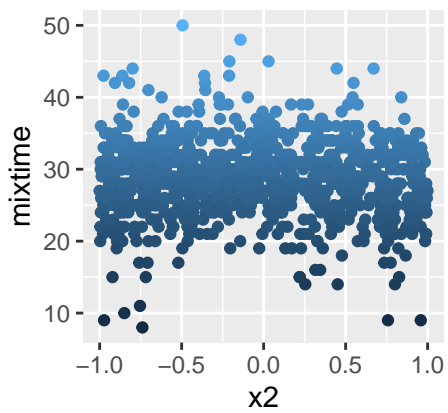
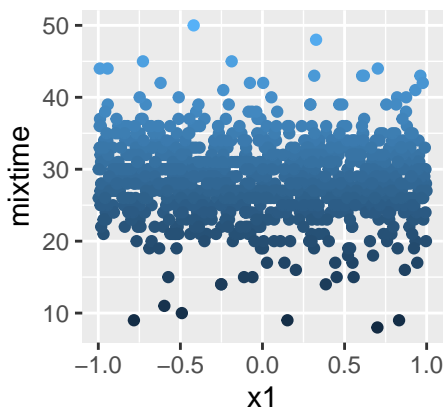
The Eigenvalues

```
##          Re Im Index
## 1 13.30295  0     1
## 2  5.29674  0     2
## 3  0.21833  0     3
## 4 -9.68238  0     4
```

Visualizations

Mixing Time Distribution for a Symmetric Normal Matrix





```
##           [,1]      [,2]      [,3]
## [1,]  0.3864247  3.586776 -0.55617257
## [2,]  3.5867762  1.993210  2.03841098
## [3,] -0.5561726  2.038411  0.09087436
```

```
##           Re Im Index
## 1  5.19292  0     1
## 2  0.65339  0     2
## 3 -3.37579  0     3
```

Mixing Time Distribution for a Symmetric Normal Matrix

