The results below are generated from an R script.

```r
# Some of the functions we were running and their output
# from class today
TI <- as.data.frame(Titanic)
Tone <- xtabs(Freq ~ Sex + Survived, data = TI)
Tone

Survived
Sex   No  Yes
Male 1364 367
Female 126 344

prop.table(Tone)

Survived
Sex   No  Yes
Male 0.61972 0.16674
Female 0.05725 0.15629

prop.table(Tone, 1)

Survived
Sex   No  Yes
Male 0.7880 0.2120
Female 0.2681 0.7319

prop.table(Tone, 2)

Survived
Sex   No  Yes
Male 0.91544 0.51617
Female 0.08456 0.48383

plot(Tone)
```

*This report is automatically generated with the R package knitr (version 0.2).*
<table>
<thead>
<tr>
<th>Tone</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

barplot(Tone, legend = TRUE)

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1400</td>
</tr>
<tr>
<td>200</td>
<td>1200</td>
</tr>
<tr>
<td>400</td>
<td>1000</td>
</tr>
<tr>
<td>600</td>
<td>800</td>
</tr>
<tr>
<td>800</td>
<td>600</td>
</tr>
<tr>
<td>1000</td>
<td>400</td>
</tr>
<tr>
<td>1200</td>
<td>200</td>
</tr>
<tr>
<td>1400</td>
<td>0</td>
</tr>
</tbody>
</table>

barplot(Tone, beside = TRUE, legend = TRUE)
library(lattice)
barchart(Tone)
barchart(Tone, stack = FALSE, auto.key = TRUE)

barchart(Tone, stack = FALSE, auto.key = TRUE, horizontal = TRUE)
barchart(Tone, stack = FALSE, auto.key = TRUE, horizontal = FALSE)

#
library(vcd)
mosaic(Freq ~ Class + Age, data = TI)
mosaic(Freq ~ Age + Class, data = TI)

mosaic(Freq ~ Age + Class, data = TI, condvars = "Class")
mosaic(Freq ~ Age + Survived + Class, data = TI, condvars = "Class")

mosaic(Freq ~ Sex + Survived + Class, data = TI, condvars = "Class")
<table>
<thead>
<tr>
<th>Sex</th>
<th>Class</th>
<th>Survived</th>
<th>Crew</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>1st</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Female</td>
<td>2nd</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>3rd</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Male</td>
<td>Yes</td>
</tr>
</tbody>
</table>

mosaic(Freq ~ Sex + Survived + Age + Class, data = TI, condvars = "Class", shade = TRUE)
mosaic(Freq ~ Sex + Survived + Age + Class, data = TI, condvars = "Survived", shade = TRUE)
The R session information (including the OS info, R version and all packages used):

```
> sessionInfo()

R version 2.14.1 (2011-12-22)
Platform: x86_64-pc-mingw32/x64 (64-bit)

locale:
[1] LC_COLLATE=English_United_Sates.1252 LC_CTYPE=English_United_Sates.1252
[3] LC_MONETARY=English_United_Sates.1252 LC_NUMERIC=C
[5] LC_TIME=English_United_Sates.1252

attached base packages:
[1] grid tools stats graphics grDevices utils datasets methods
[9] base

other attached packages:
[1] knitr_0.2 vcd_1.2-12 colorspace_1.1-0 productplots_0.1 ggplot2_0.8.9
[6] proto_0.3-9.2 reshape_0.8.4 plyr_1.6 PASWR_1.1 lattice_0.20-0
[11] MASS_7.3-16 e1071_1.6 class_7.3-3 tikzDevice_0.6.2 cacheSweave_0.6
[16] formatR_0.3-4 optparse_0.9.4 getopt_1.17 highlight_0.3.1 parser_0.0-14
[21] Rcpp_0.9.8 int64_1.1.2 codetools_0.2-8 stashR_0.3-4 filehash_2.2

loaded via a namespace (and not attached):
[1] digest_0.5.1 evaluate_0.4.1 pgfSweave_1.2.1 stringr_0.6
```

```
> Sys.time()

```