Analysis of Burge Lab Porter Tasting

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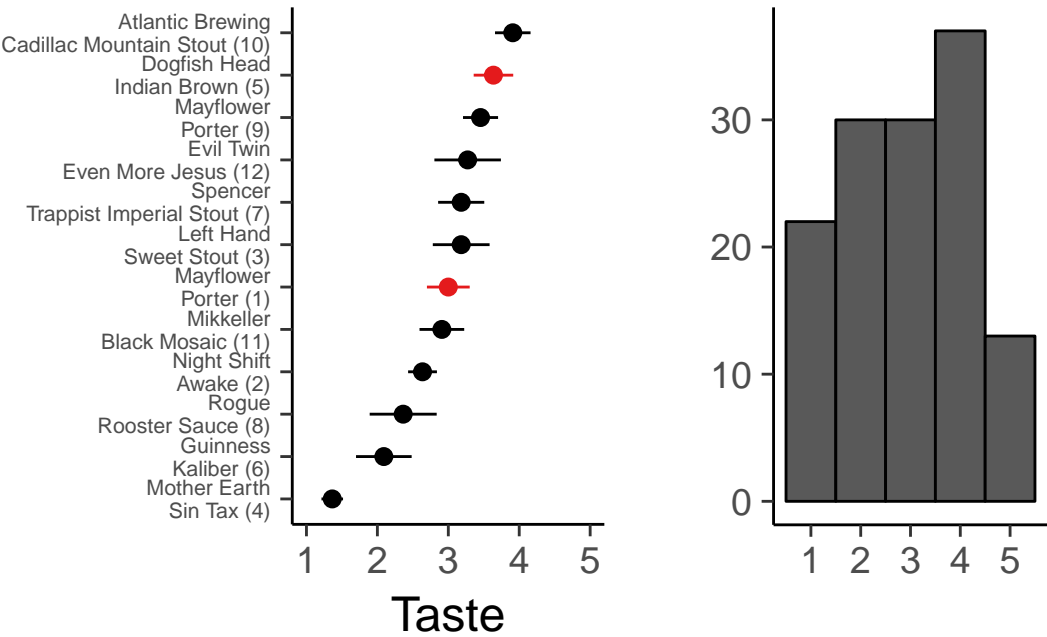**Code version:** 0f80241

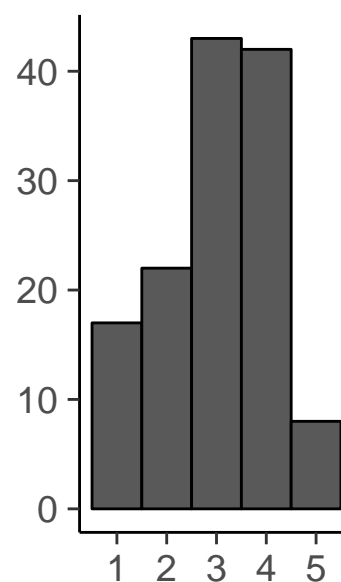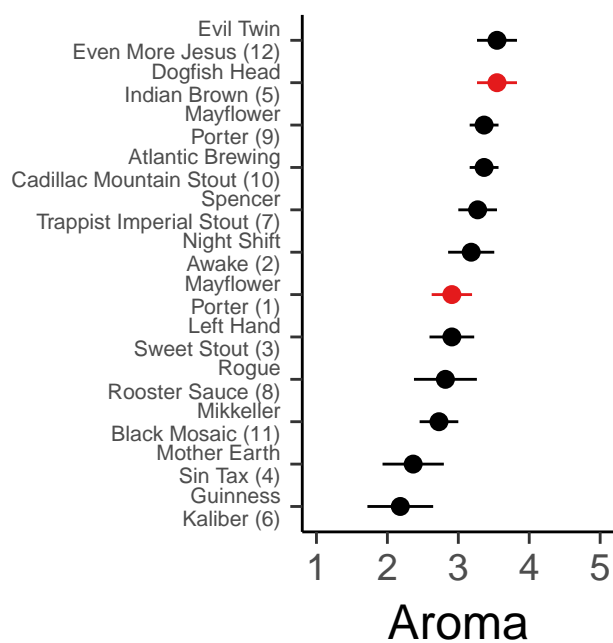## Analyze Beers

TEST

```
[1] 528   20
```

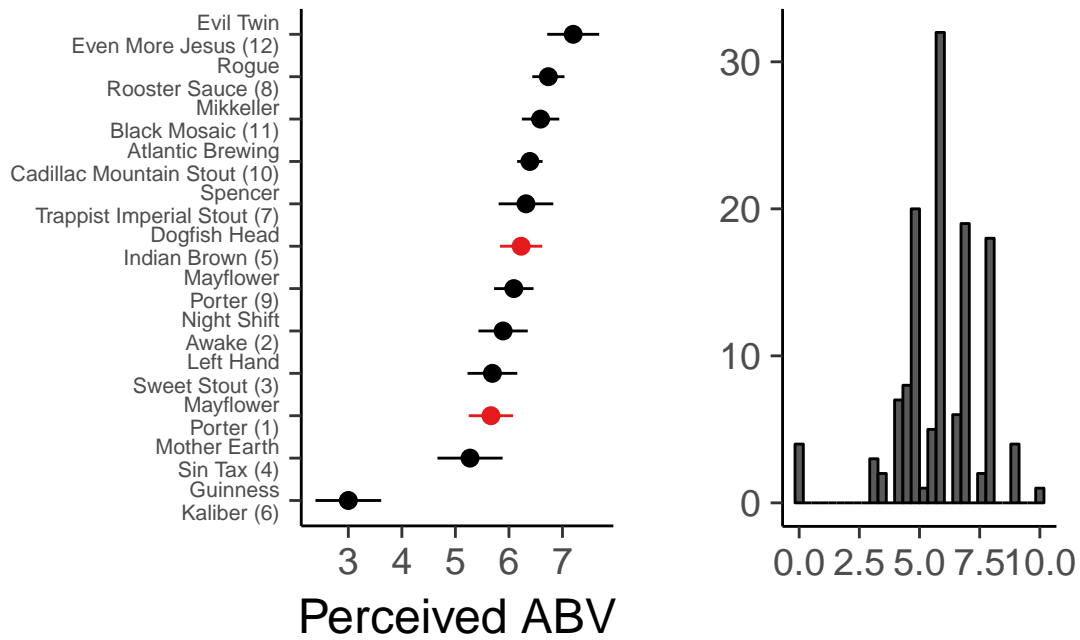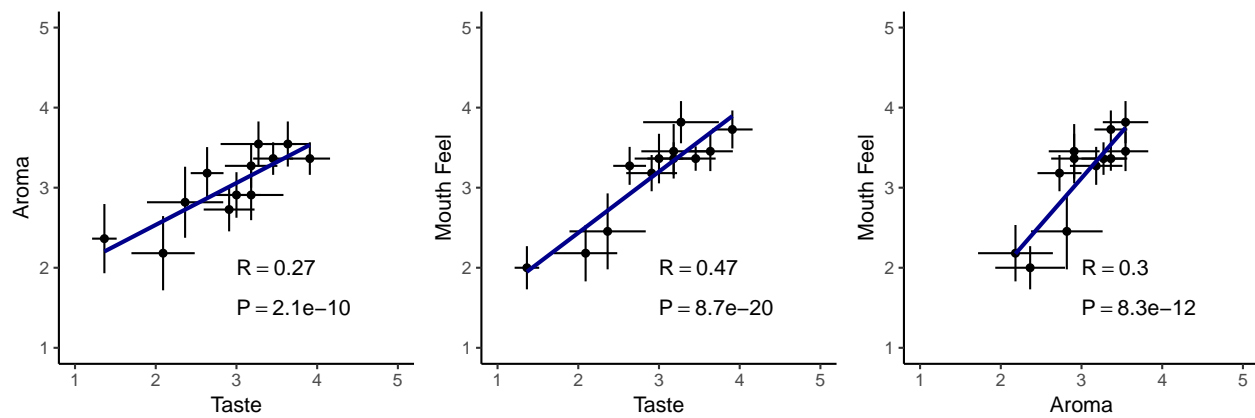## OverallPreferences Among Beers
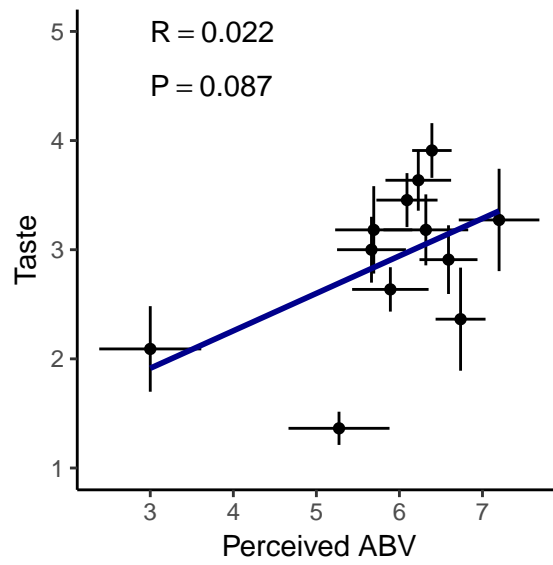
Taste

Aroma
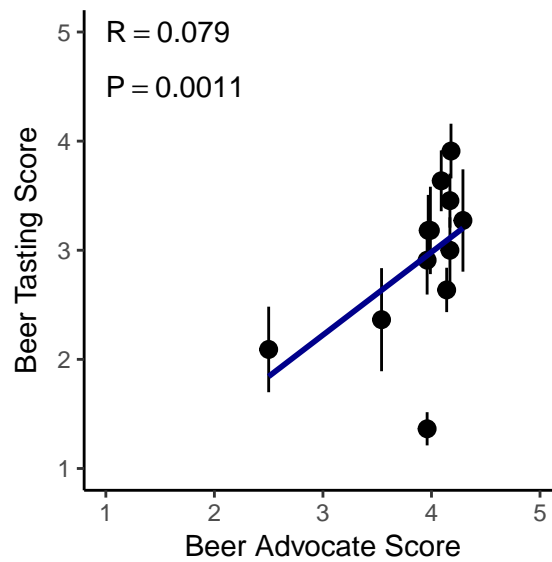

Mouth Feel
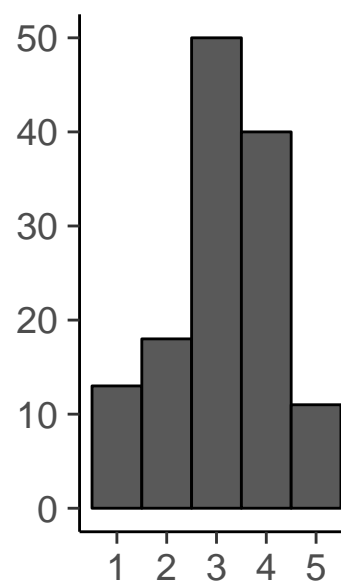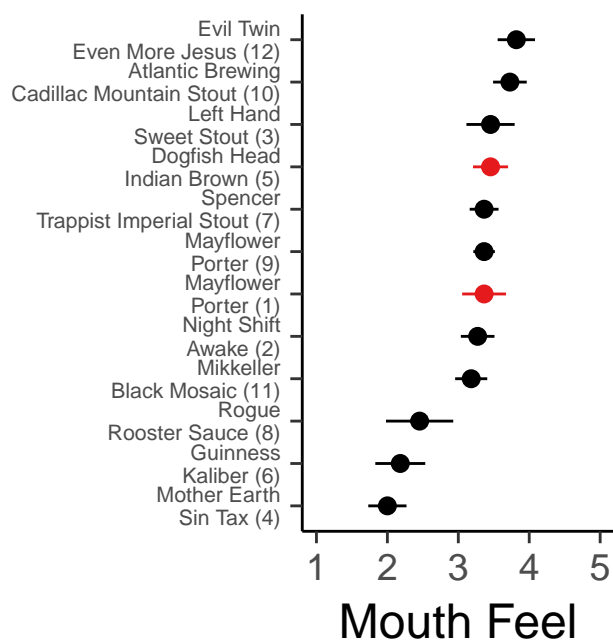
Perceived ABV
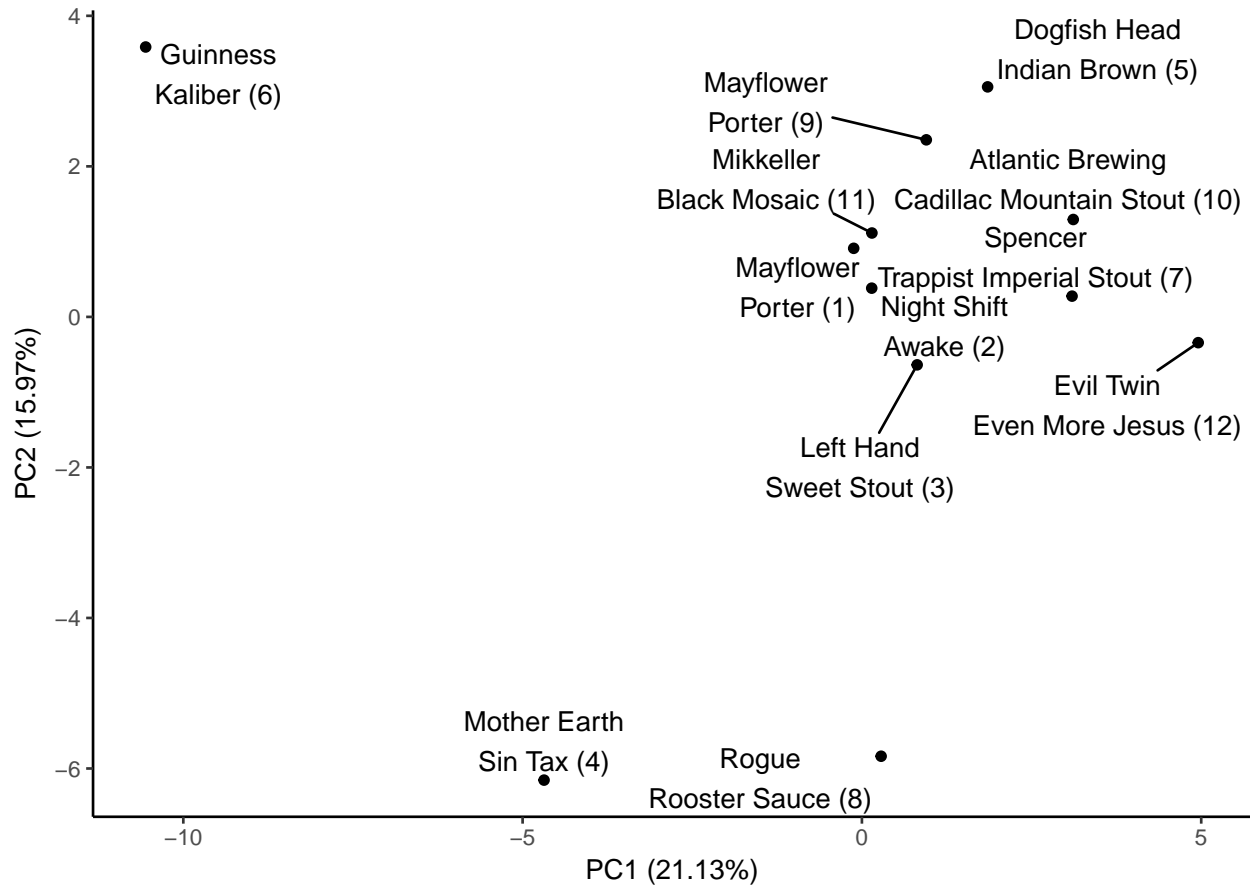

Taste, Aroma, Mouth Feel Correlations

ABV vs Taste
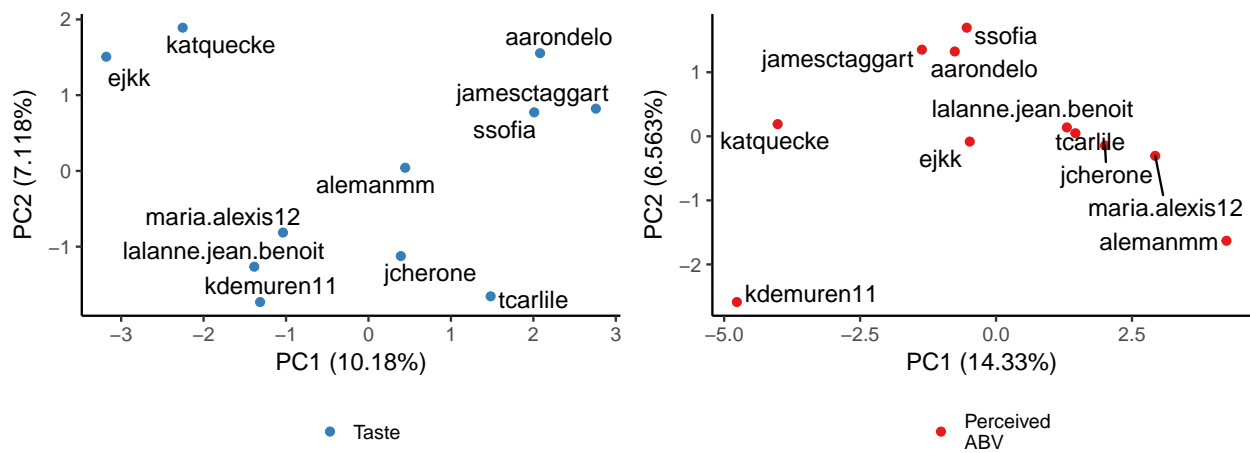

Comparison to other rankings

Clustering

clustering of beers

clustering of people

Mayflower Porter #1 vs Mayflower Porter #9

Overall Consistency
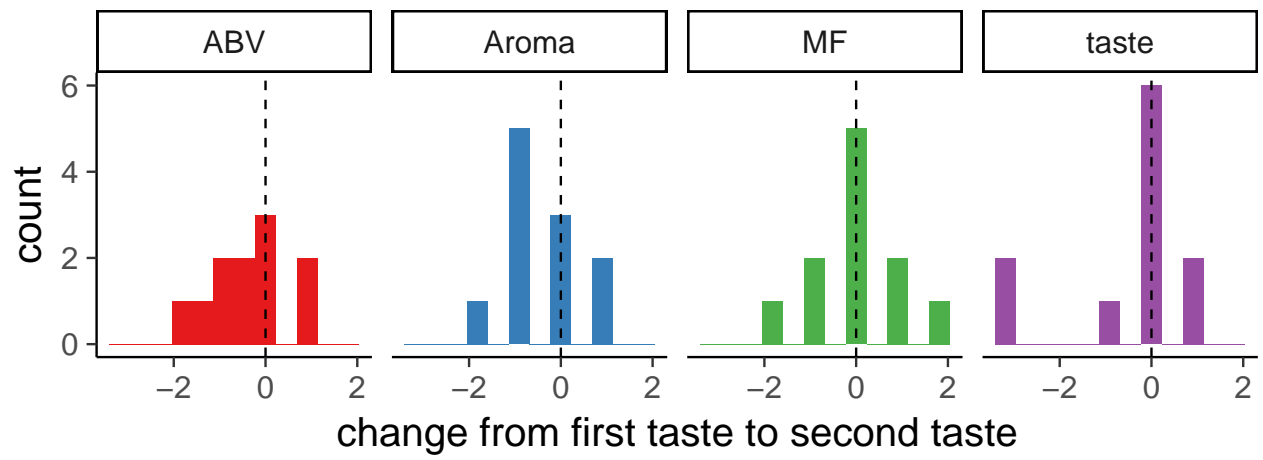
Individual Ranking Consistency
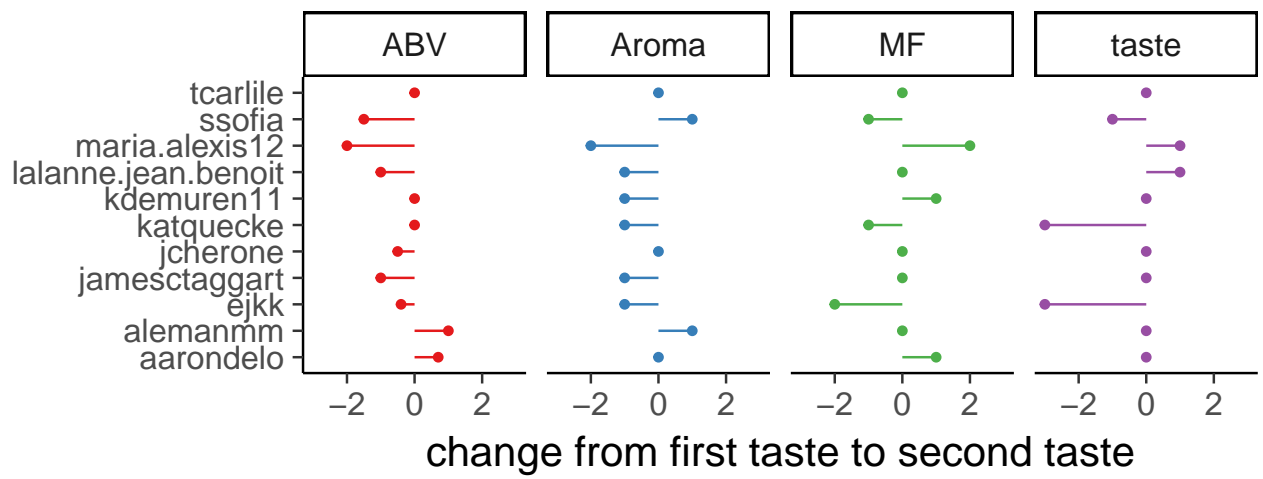
Percieved vs True ABV
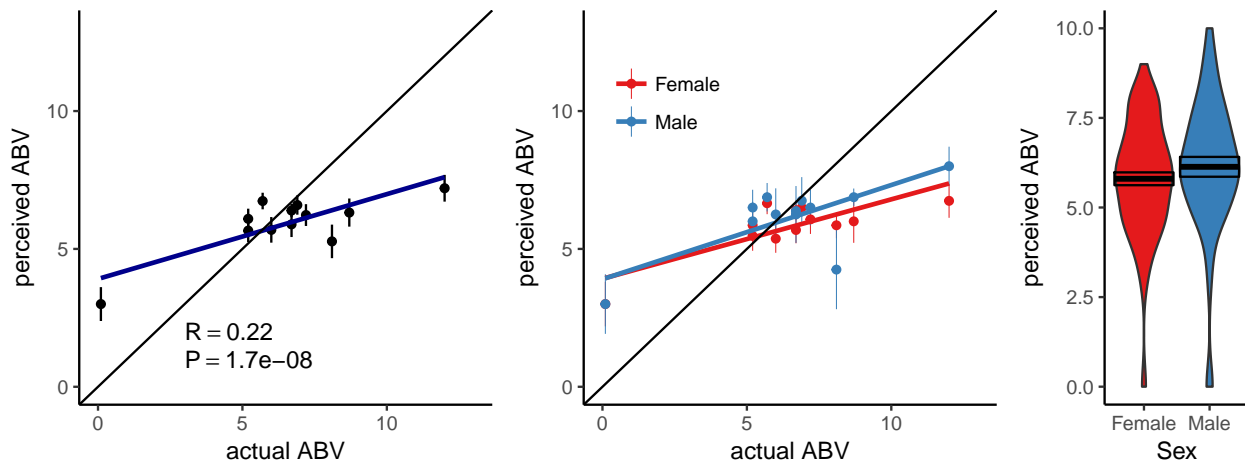

```
        Welch Two Sample t-test

data:  value by Sex
t = -1.0138, df = 86.039, p-value = 0.3135
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -0.9896266  0.3211742
sample estimates:
mean in group Female    mean in group Male
          5.801190                6.135417


        Wilcoxon rank sum test with continuity correction

data:  value by Sex
W = 1715.5, p-value = 0.1514
alternative hypothesis: true location shift is not equal to 0
```
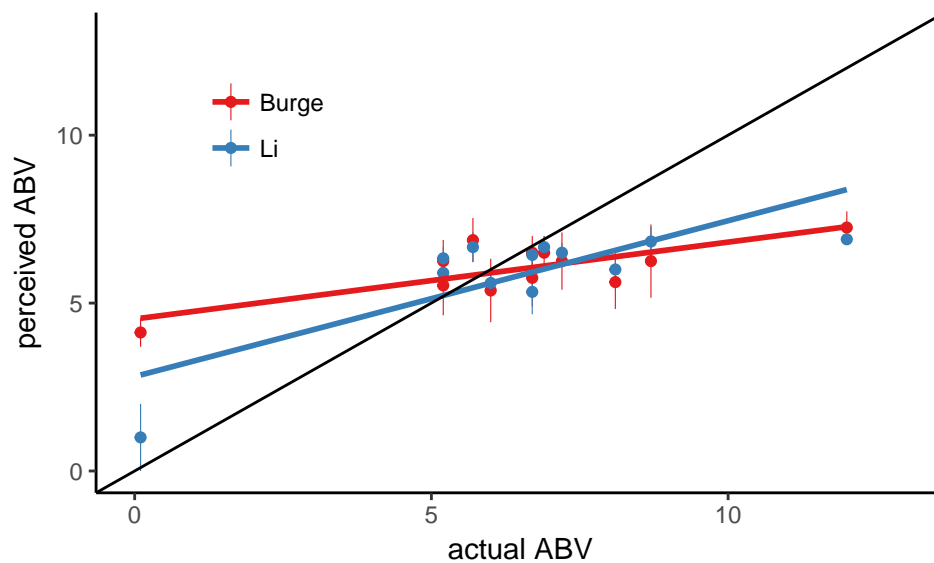
Male vs Female preferences
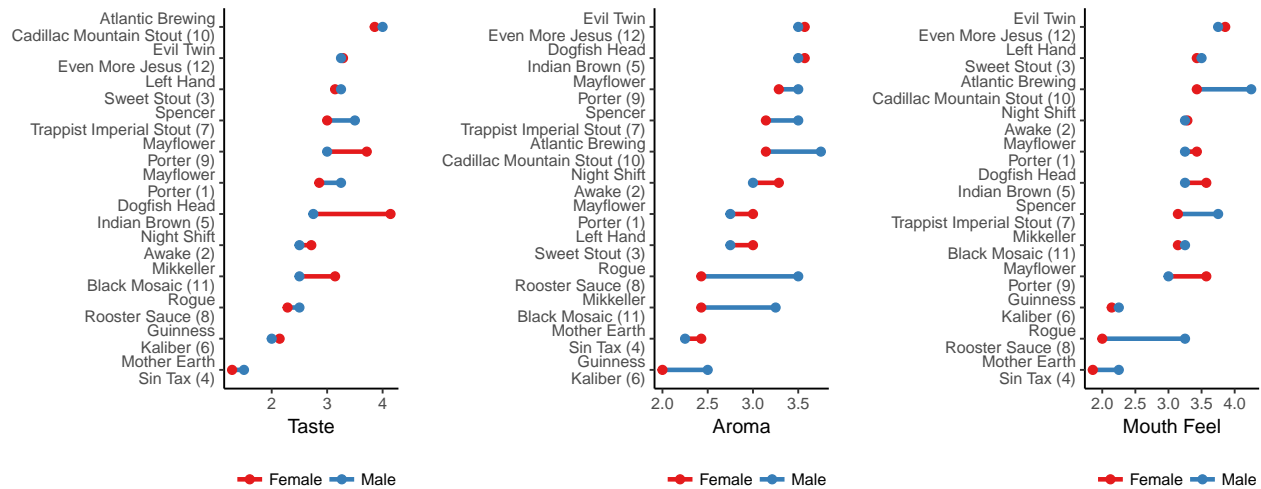
Inter-Lab Beer Preferences

Burge vs Li Lab Preferences

Session information

```
R version 3.4.0 (2017-04-21)
Platform: x86_64-apple-darwin15.6.0 (64-bit)
Running under: macOS  10.13.3

Matrix products: default
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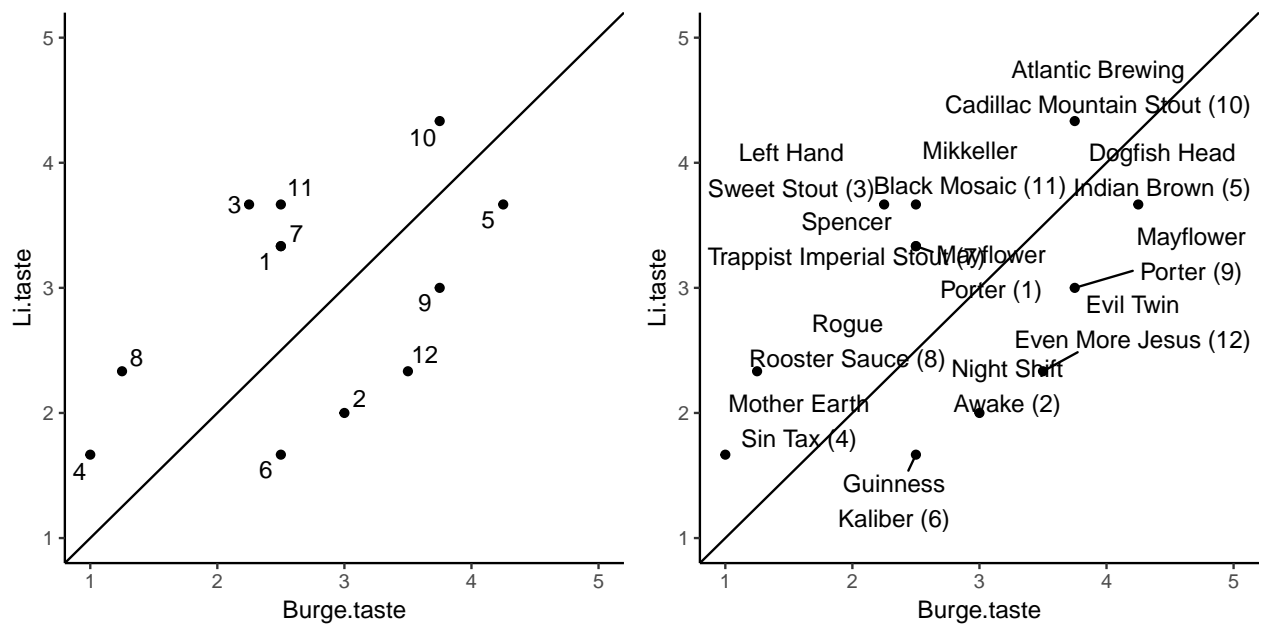
```
BLAS: /Library/Frameworks/R.framework/Versions/3.4/Resources/lib/libRblas.0.dylib
LAPACK: /Library/Frameworks/R.framework/Versions/3.4/Resources/lib/libRlapack.dylib

locale:
[1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8

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

other attached packages:
[1] bindrcpp_0.2      corrplot_0.84     cowplot_0.8.0
[4] RColorBrewer_1.1-2 ggrepel_0.7.0    ggplot2_2.2.1
[7] broom_0.4.2       tidyr_0.7.1       dplyr_0.7.4

loaded via a namespace (and not attached):
 [1] Rcpp_0.12.13     compiler_3.4.0   git2r_0.21.0     plyr_1.8.4
 [5] bindr_0.1        tools_3.4.0      digest_0.6.15    evaluate_0.10.1
 [9] tibble_1.3.4     nlme_3.1-131     gtable_0.2.0     lattice_0.20-35
[13] pkgconfig_2.0.1  rlang_0.2.0      psych_1.7.8      yaml_2.1.16
[17] parallel_3.4.0   stringr_1.3.0    knitr_1.20       tidyselect_0.2.1
[21] rprojroot_1.3-2  grid_3.4.0       glue_1.2.0       R6_2.2.2
[25] foreign_0.8-69   rmarkdown_1.8    purrr_0.2.3      reshape2_1.4.2
[29] magrittr_1.5     backports_1.1.1  scales_0.5.0     htmltools_0.3.6
[33] assertthat_0.2.0 mnormt_1.5-5     colorspace_1.3-2 labeling_0.3
[37] stringi_1.1.6    lazyeval_0.2.1   munsell_0.4.3
```