Analysis of Burge Lab Porter Tasting

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2018-02-27

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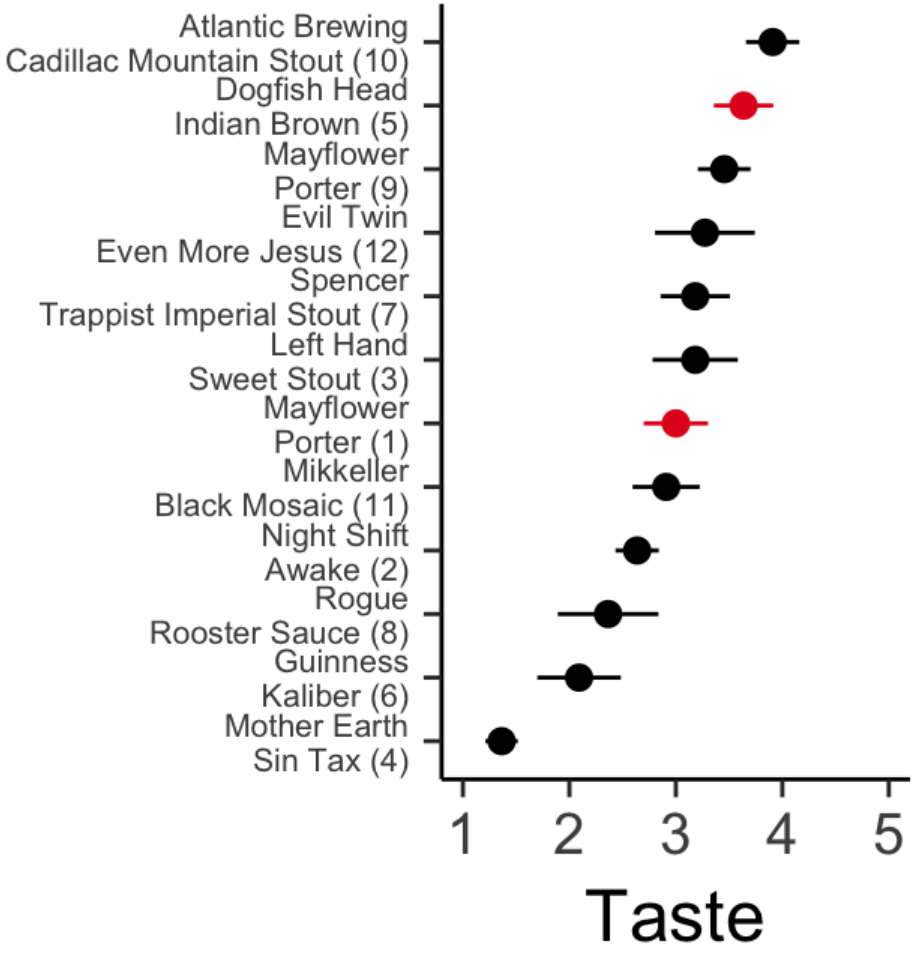
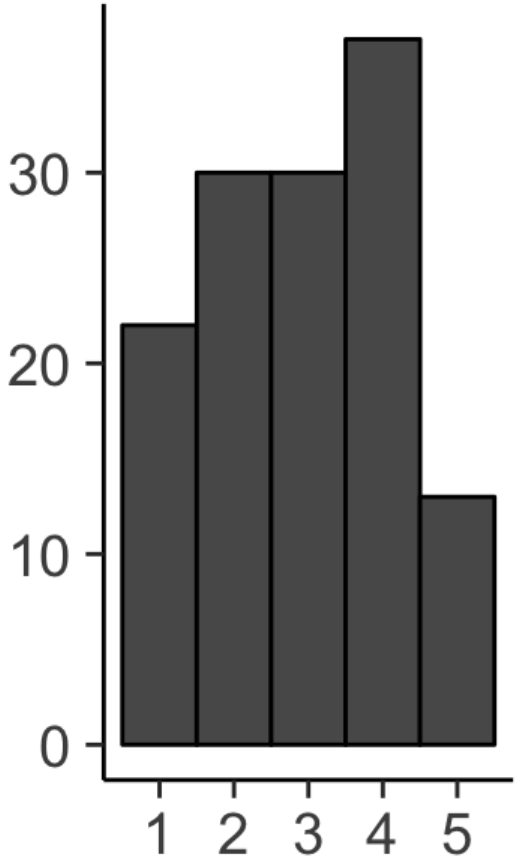
Code version: 17caf06

The code below loads and analyzes the Burge Lab 2018 Porter Tasting Night Results

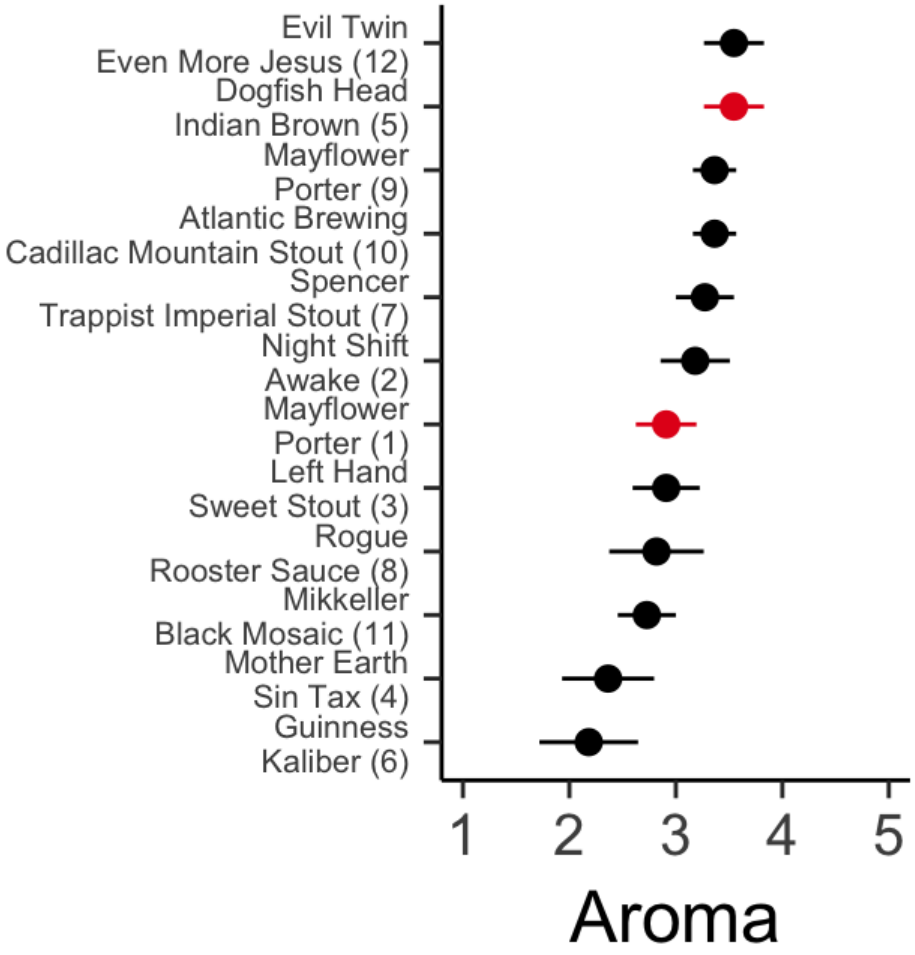
OverallPreferences Among Beers

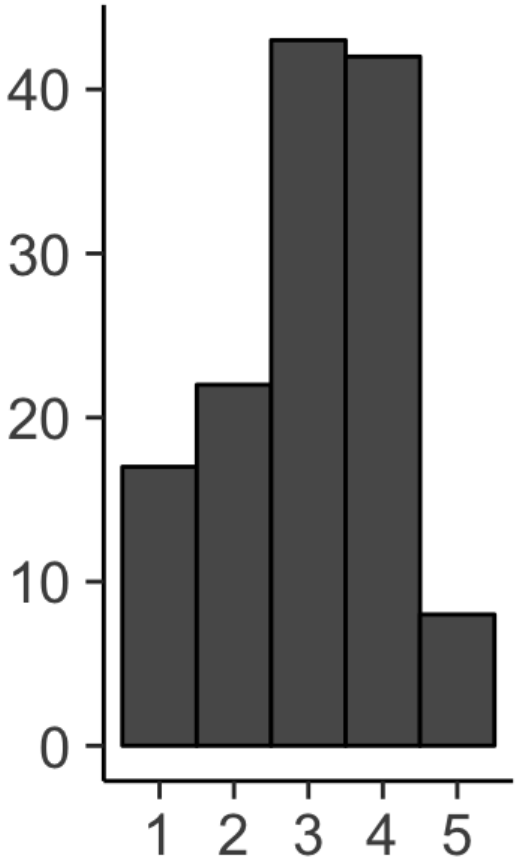
Taste



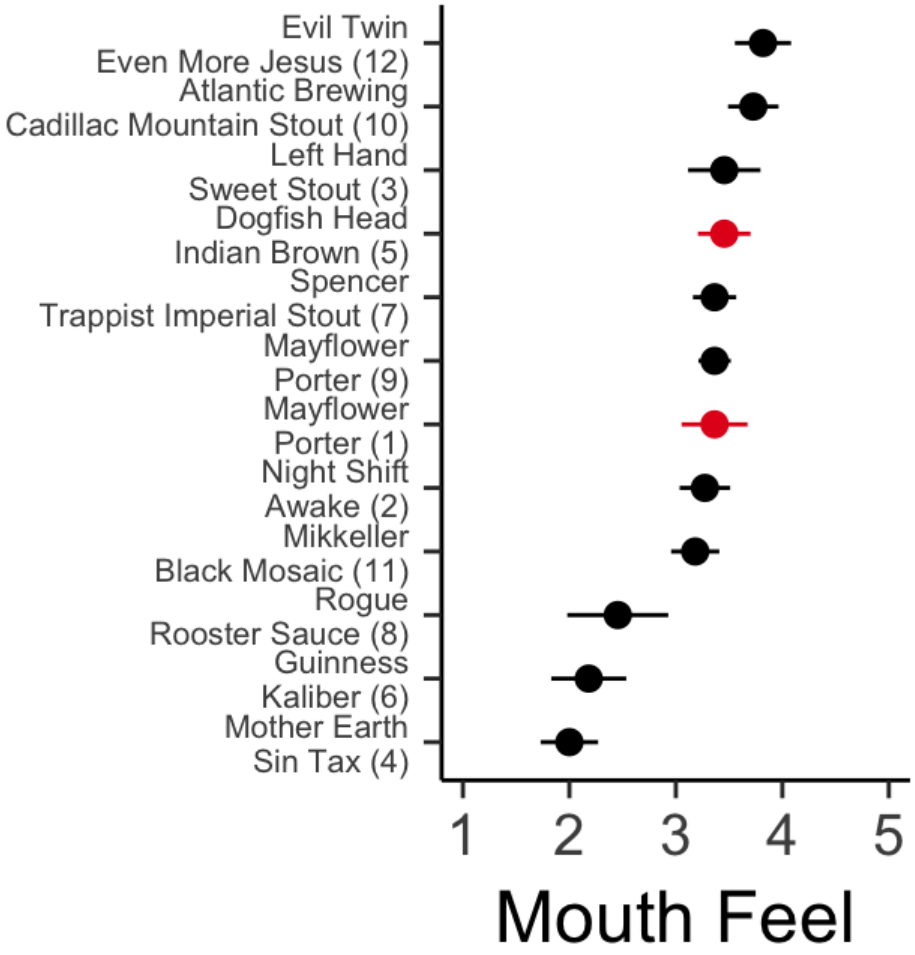


Aroma


Evil Twin
Even More Jesus (12)
Dogfish Head
Indian Brown (5)
Mayflower
Porter (9)
Atlantic Brewing
Cadillac Mountain Stout (10)
Spencer
Trappist Imperial Stout (7)
Night Shift
Awake (2)
Mayflower
Porter (1)
Left Hand
Sweet Stout (3)
Rogue
Rooster Sauce (8)
Mikkeller
Black Mosaic (11)
Mother Earth
Sin Tax (4)
Guinness
Kaliber (6)
1
2
3
4
5
Aroma


40
30
20
10
0
1
2
3
4
5

Mouth Feel


Evil Twin
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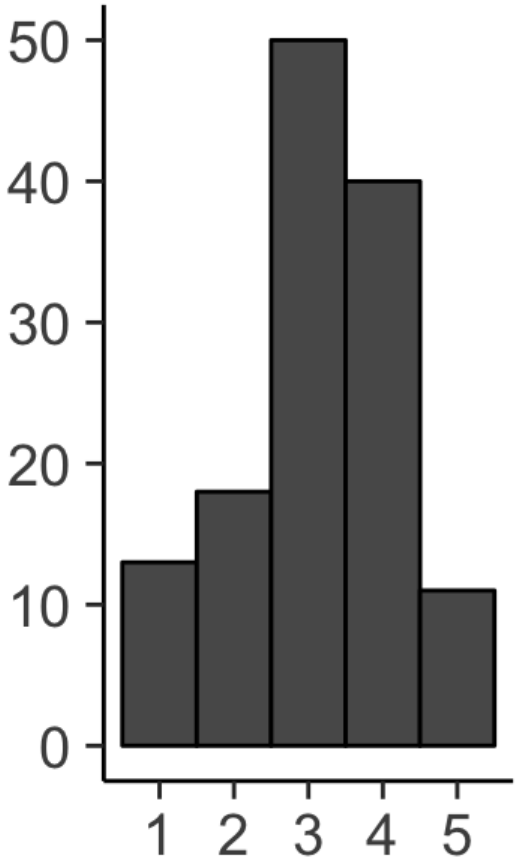
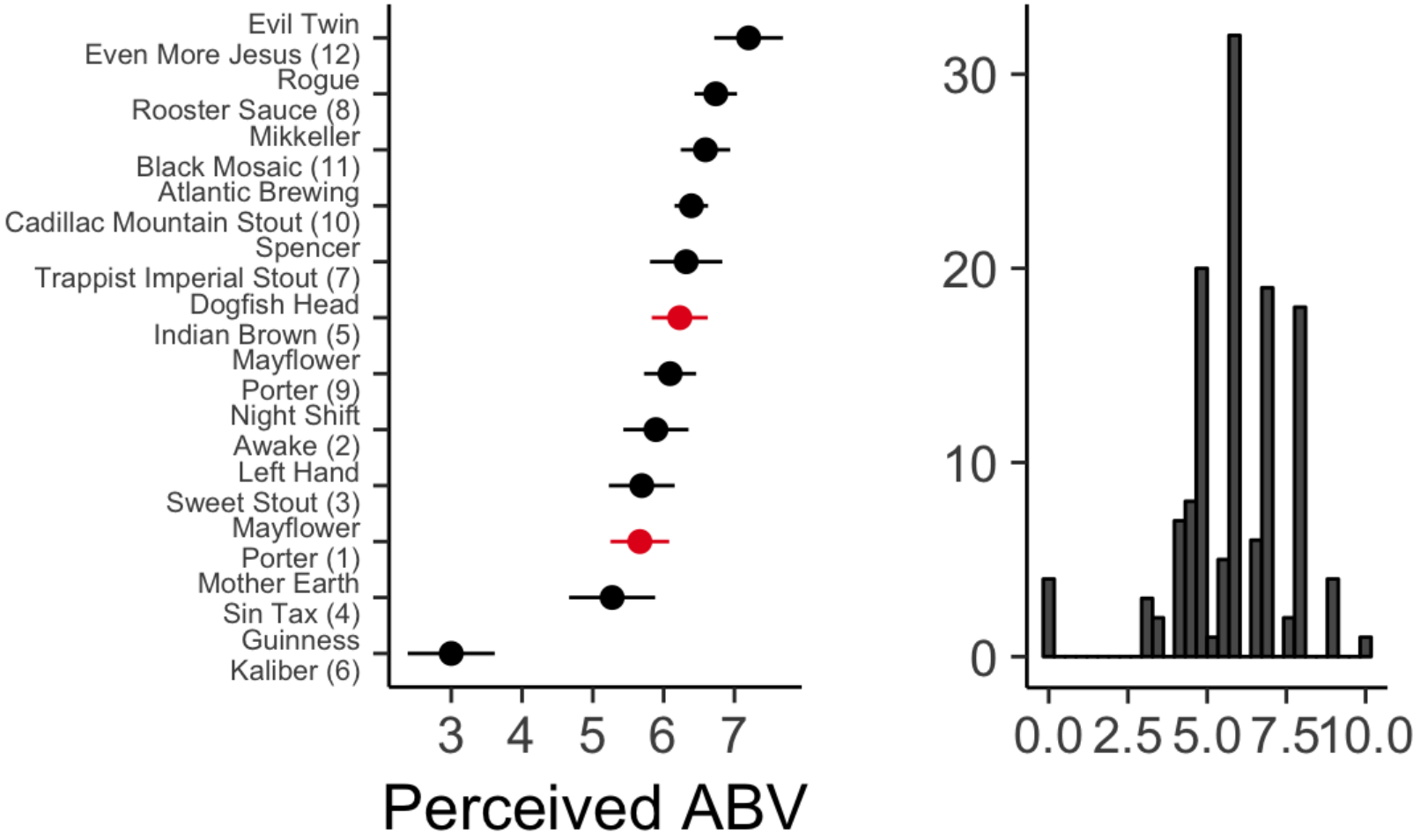
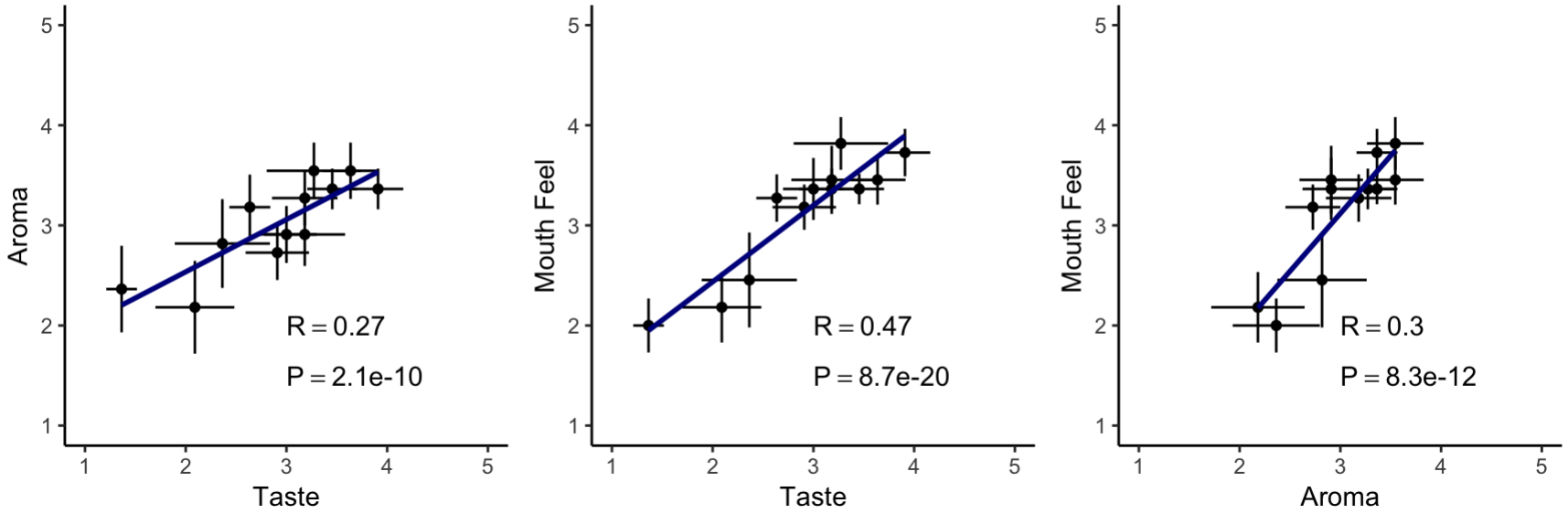
5
Mouth Feel


50
40
30
20
10
0
1
2
3
4
5

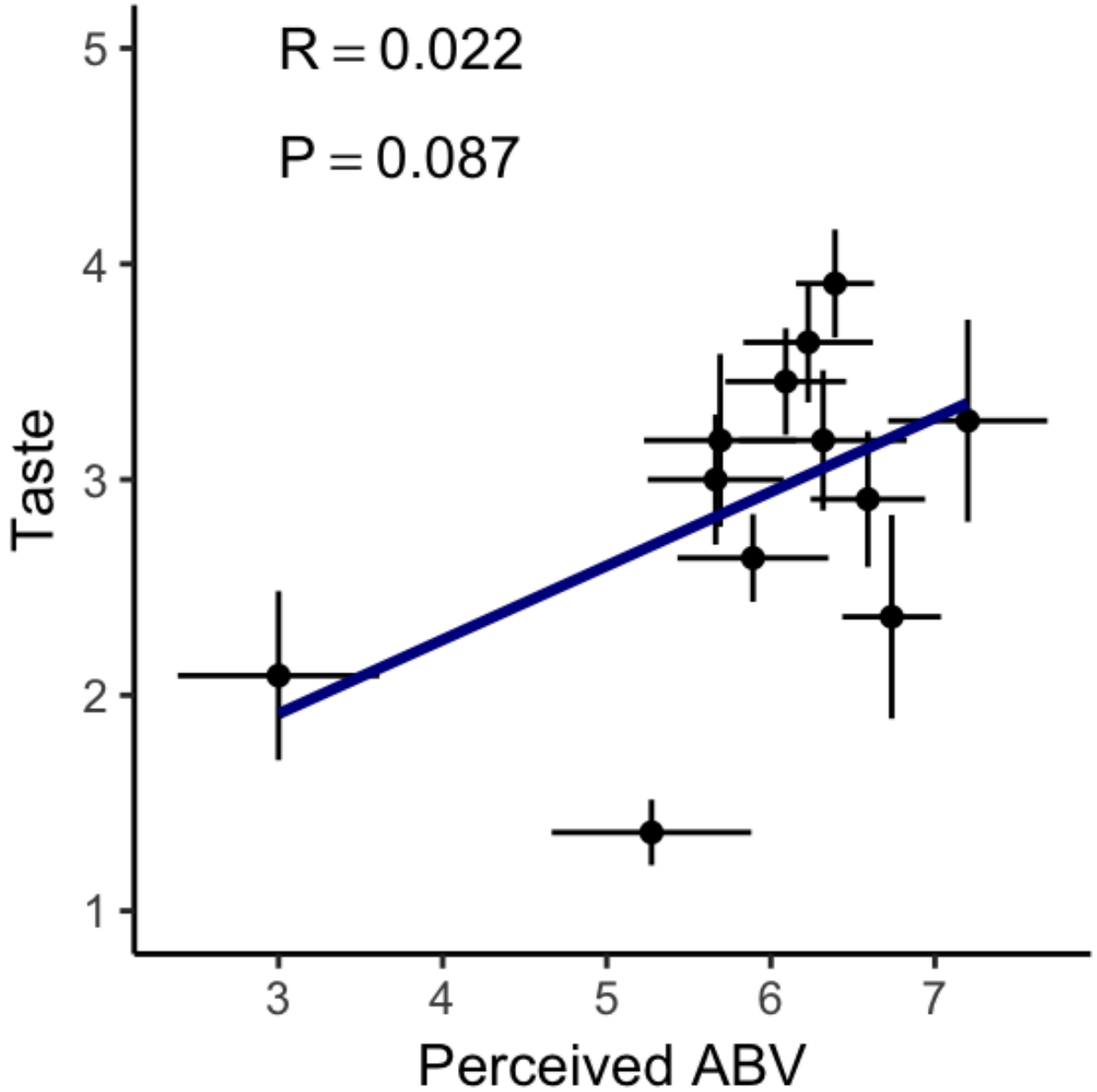
Perceived ABV



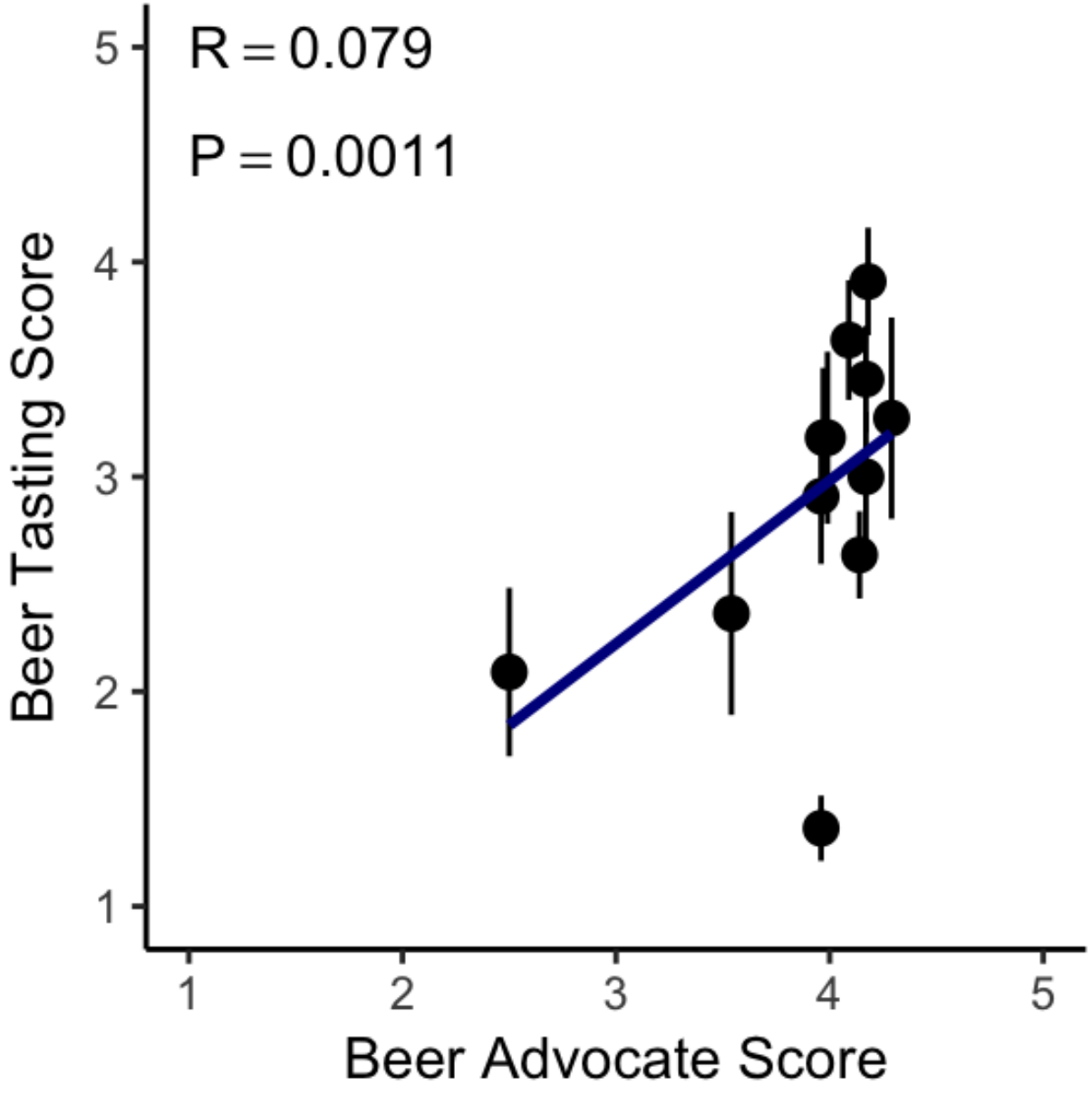
Taste, Aroma, Mouth Feel Correlations



ABV vs Taste

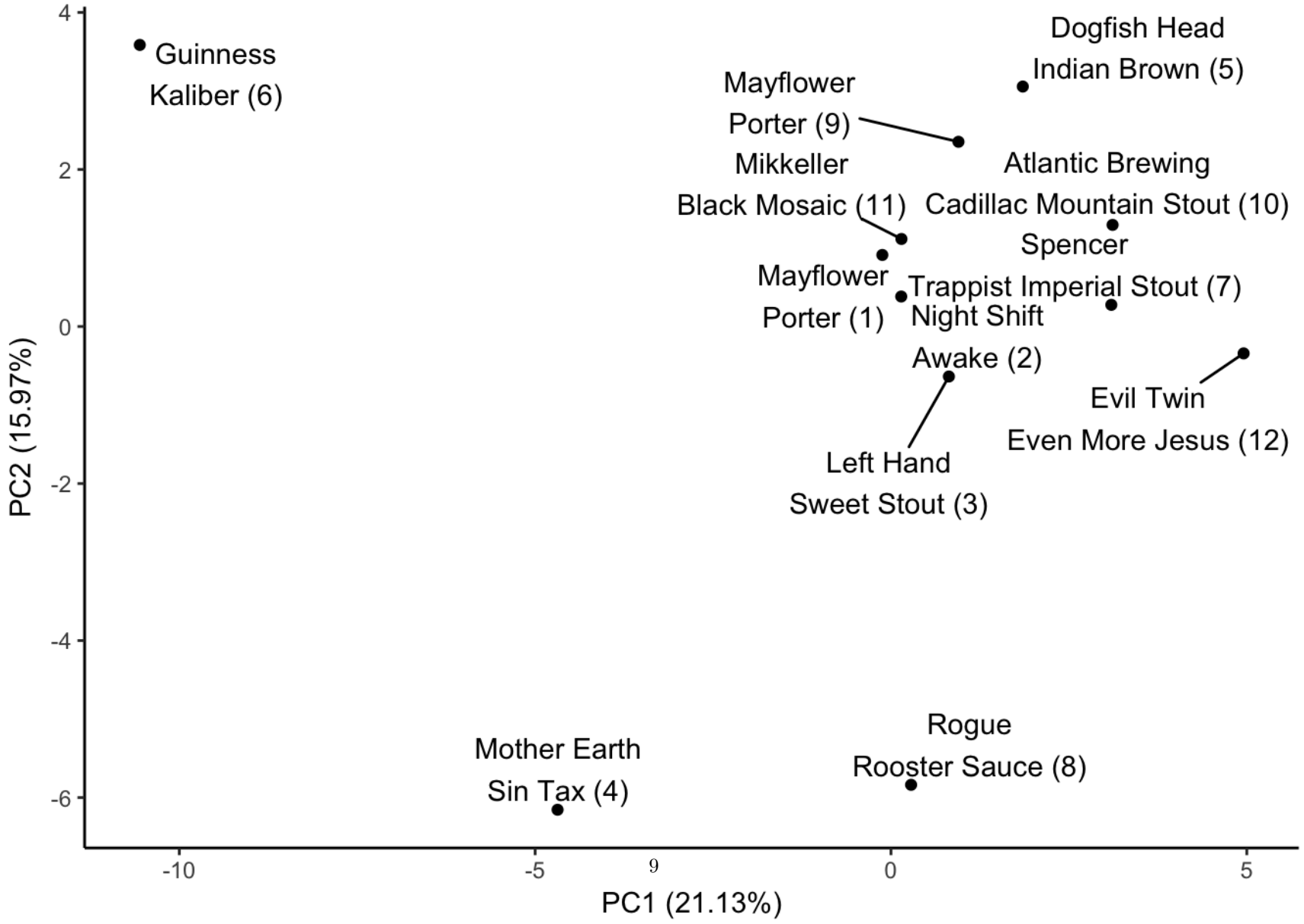


Comparison to other rankings

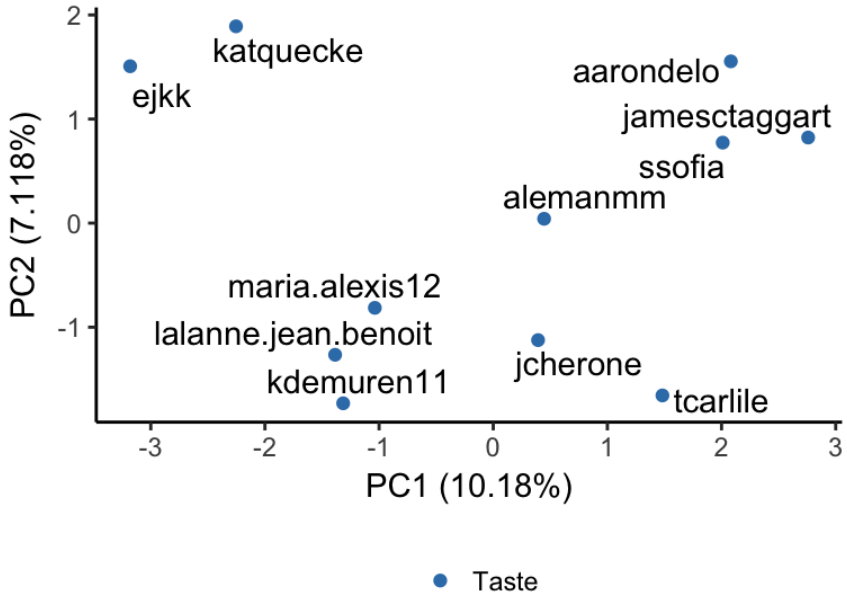


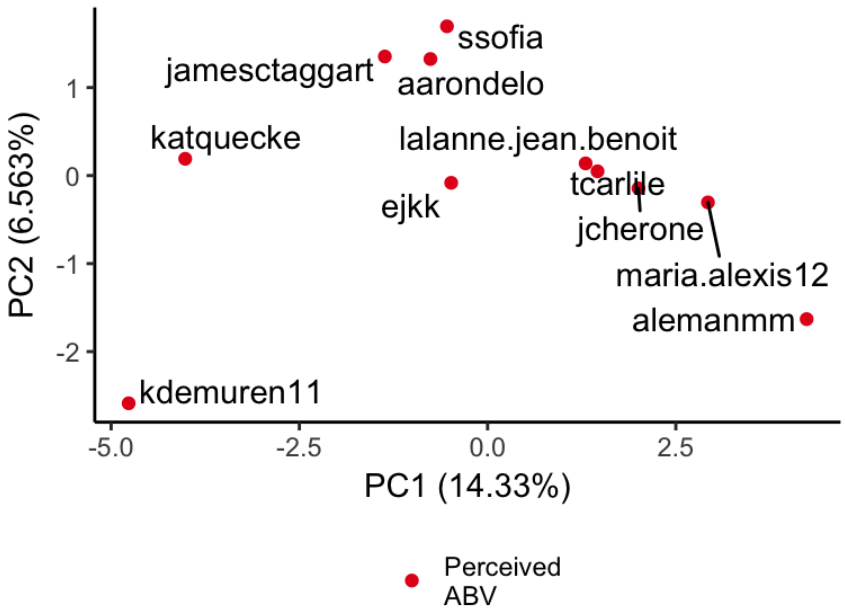
Clustering

clustering of beers

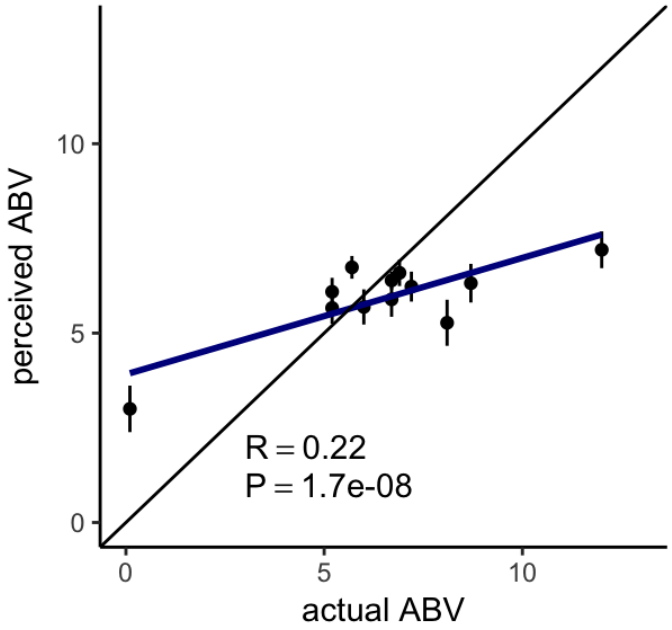


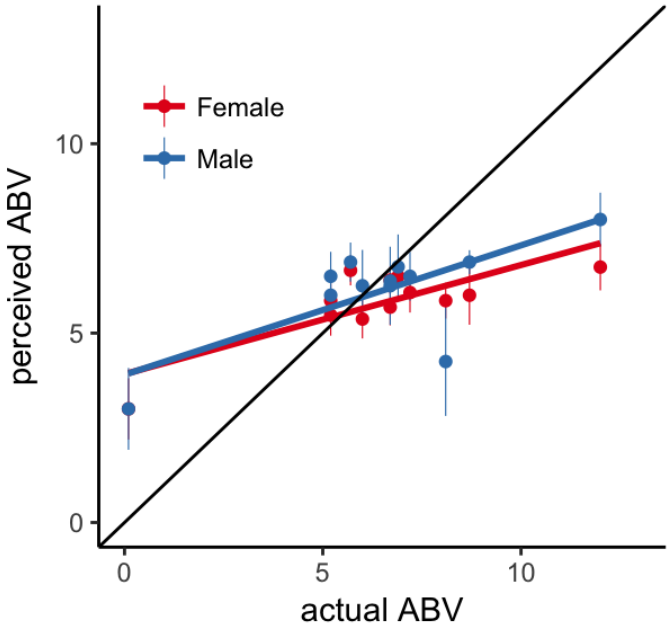
clustering of people

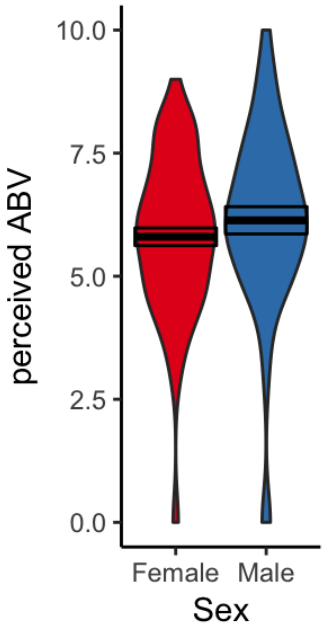




Percieved vs True ABV







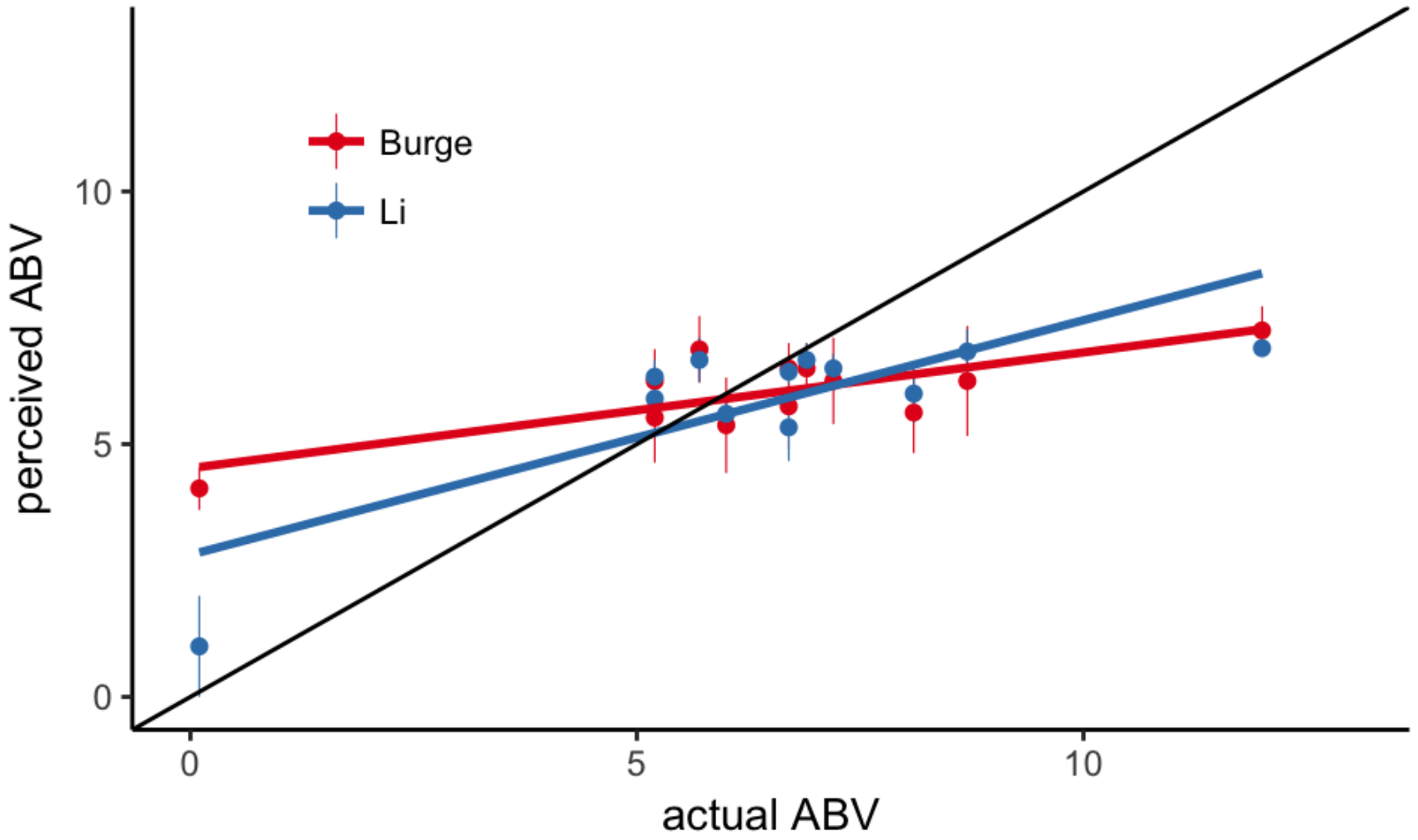

```
    Welch Two Sample t-test

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

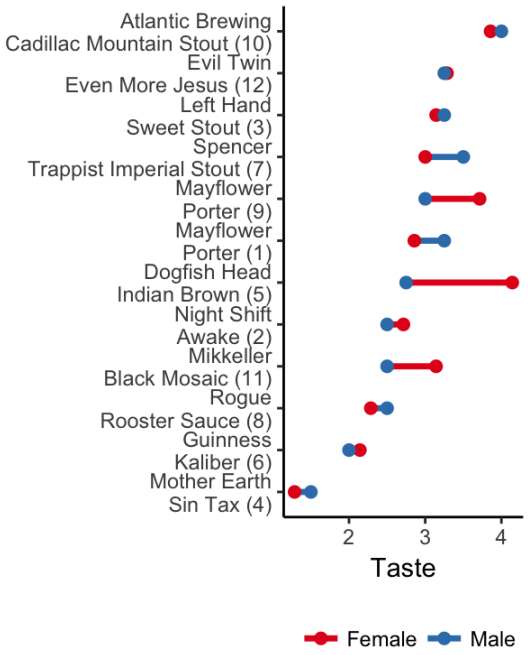

    Wilcoxon rank sum test with continuity correction

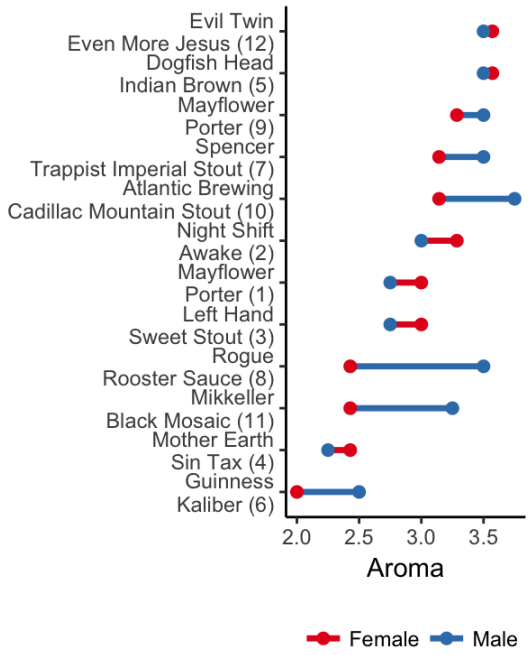
data:  value by Sex
```

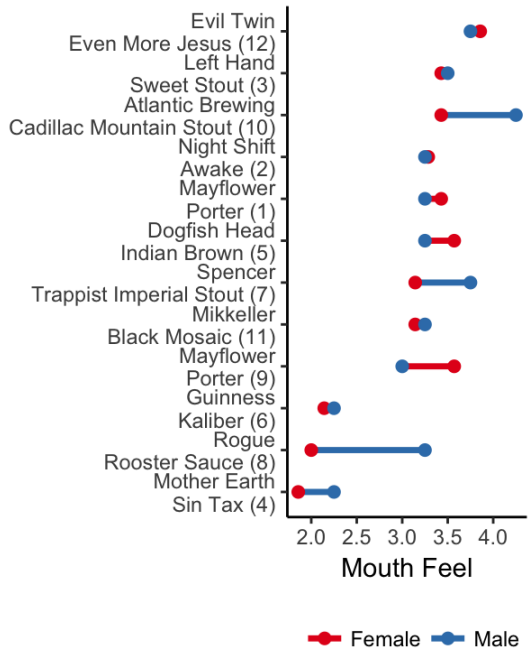
```
W = 1715.5, p-value = 0.1514
alternative hypothesis: true location shift is not equal to 0
```



Male vs Female preferences

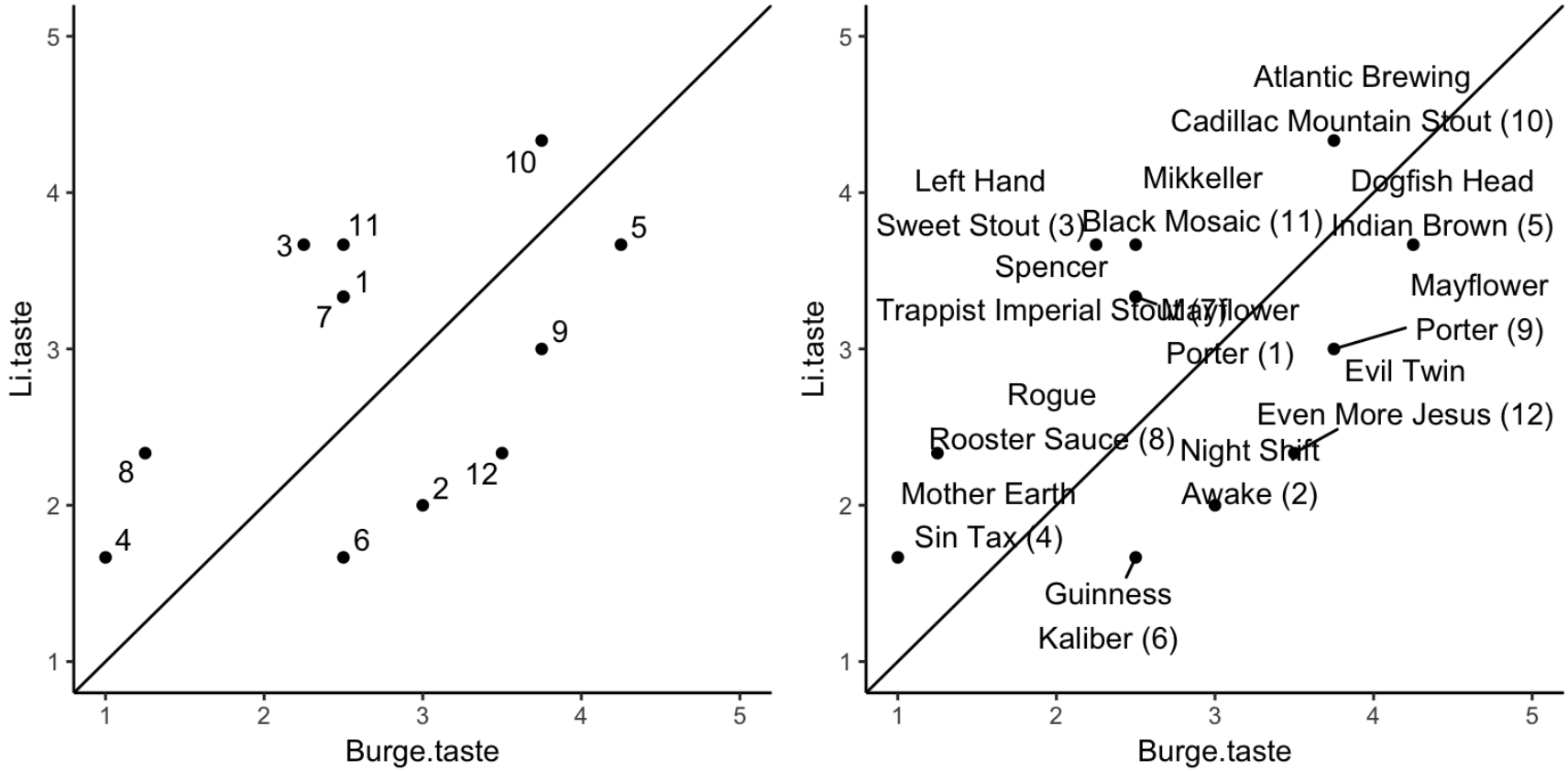






Inter-Lab Beer Preferences

Burge vs Li Lab Preferences



Session information

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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
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
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[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
```