Analysis of Burge Lab Porter Tasting

Peter Sudmant 2018-02-27

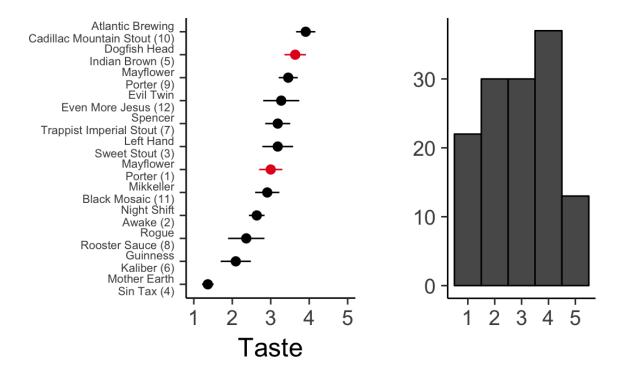
Last updated: 2018-02-28 Code version: d3cc2cd

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

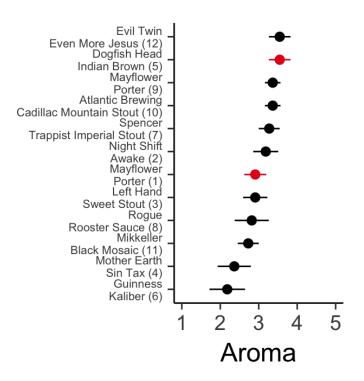
[1] 528 20

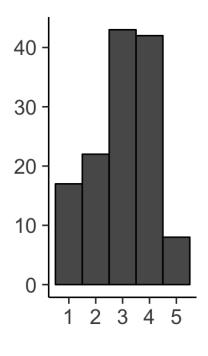
OverallPreferences Among Beers

Taste

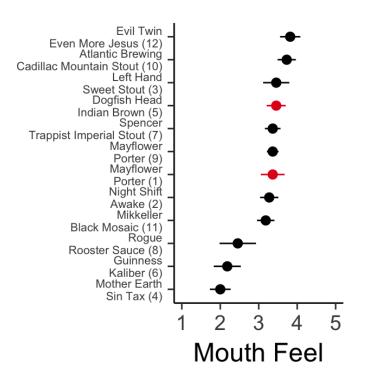


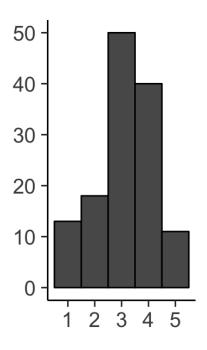
Aroma



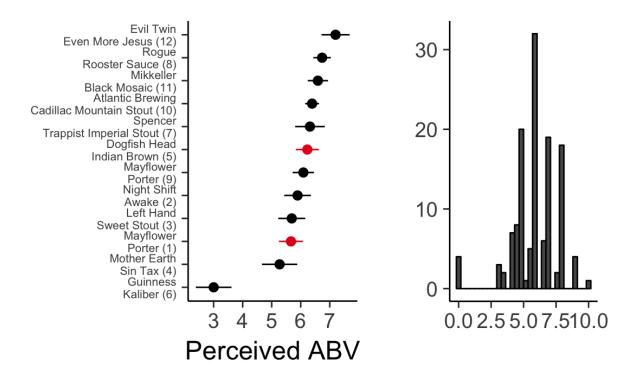


Mouth Feel

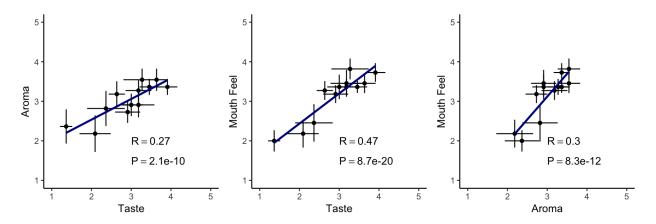




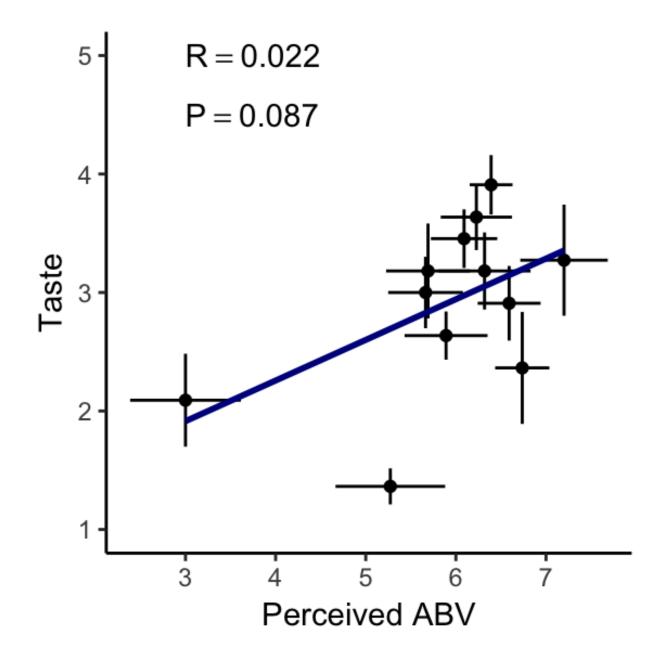
Perceived ABV



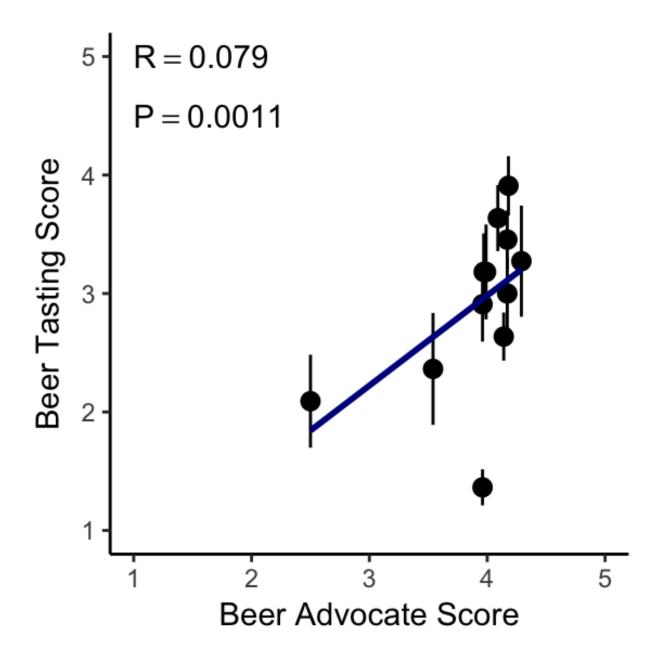
Taste, Aroma, Mouth Feel Correlations



ABV vs Taste

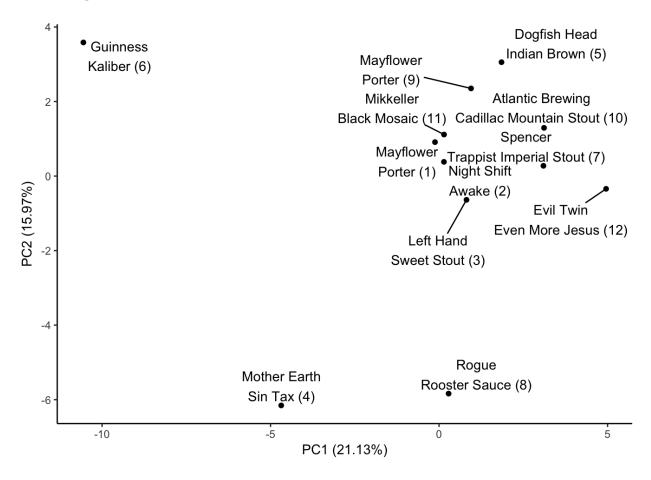


Comparison to other rankings

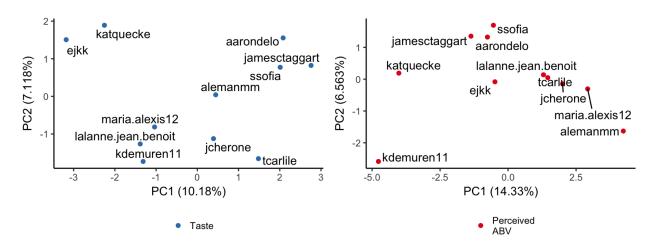


Clustering

clustering of beers

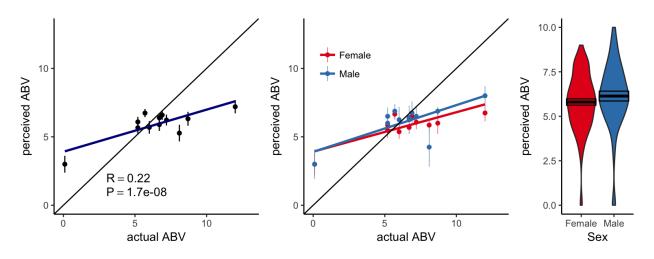


clustering of people

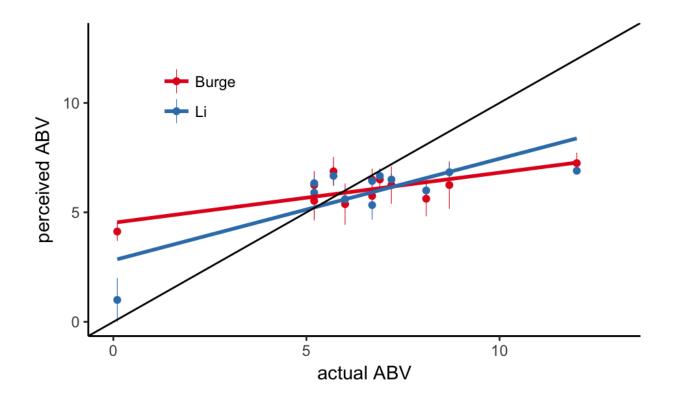


Mayflower Porter #1 vs Mayflower Porter #9

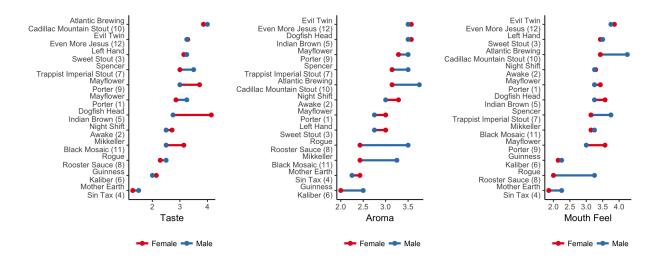
Overall Consistency



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:

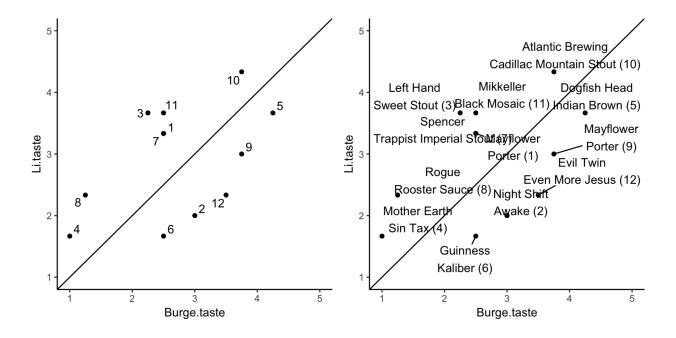
mean in group Female mean in group Male 5.801190 6.135417

Wilcoxon rank sum test with continuity correction

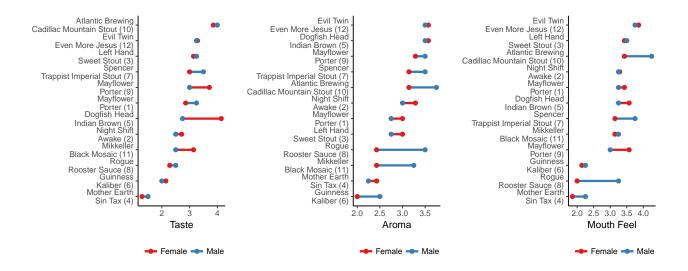
data: value by Sex

W = 1715.5, p-value = 0.1514

alternative hypothesis: true location shift is not equal to 0

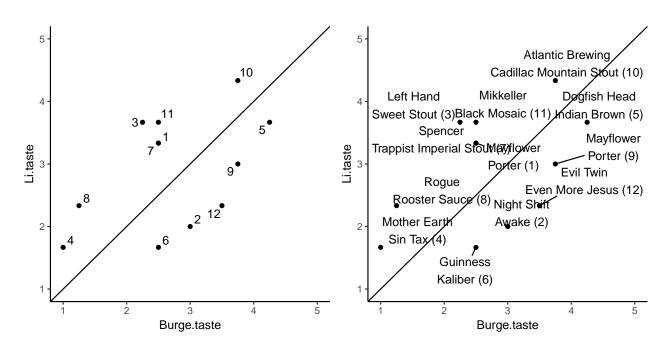


Male vs Female preferences



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

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	