

v2

Maiko Hata

A. Table of 10 exit reasons

Table 1: Table of Exit Reasons

Exit Reasons	Exit Category Codes
Program completion	Category (C) 1: A child is no longer eligible for Part C prior to reaching age three
Exit at age three	C2: A child is exiting Part C and has been determined to be eligible for Part B
Exit at age three	C3: Part B eligible, continuing in Part C
Exit at age three	C4: Not eligible for Part B, exit with referrals to other programs
Exit at age three	C5: Not eligible for Part B, exit with no referrals
Exit at age three	C6: Part B eligibility not determined
Not receiving services	C7: Deceased
Not receiving services	C8: Moved out of state
Not receiving services	C9: Withdrawal by parent (or guardian)
Not receiving services	C10: Attempts to contact the parents and/or child were unsuccessful

B. National and Oregon CHILD COUNTS

NOTE TO SELF: ADD THE CENSUS NUMBER FOR FINAL PROJECT! BIND_ROWS!! WEEK 2? 3? Labs.

B-1. Load data

where did the data go wrong? Did i combine it in below? But i think I just chose and selected the one i don't need? The one below is still correct. Where is the error?

B-2: chart 1:

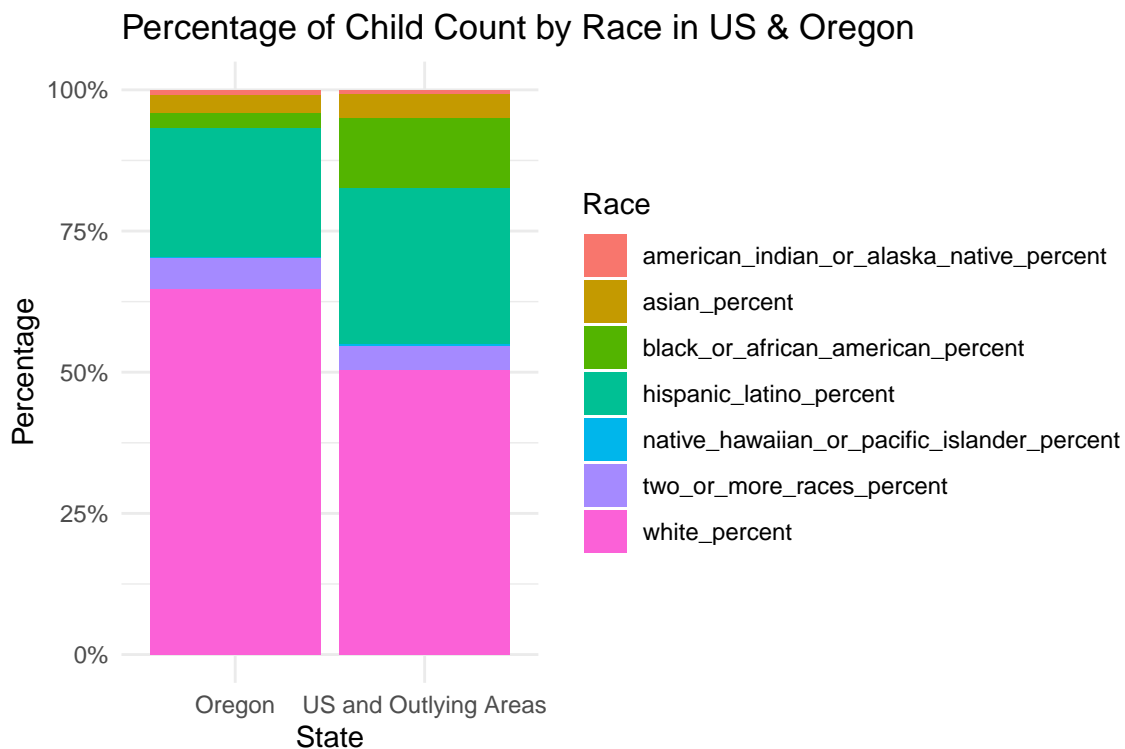
THIS CHUNK TO ROUND TO 2 DIGITS CONVERTED THE COLUMN TOO the distinction between the OR/US somehow. I NEED TO FIX IT

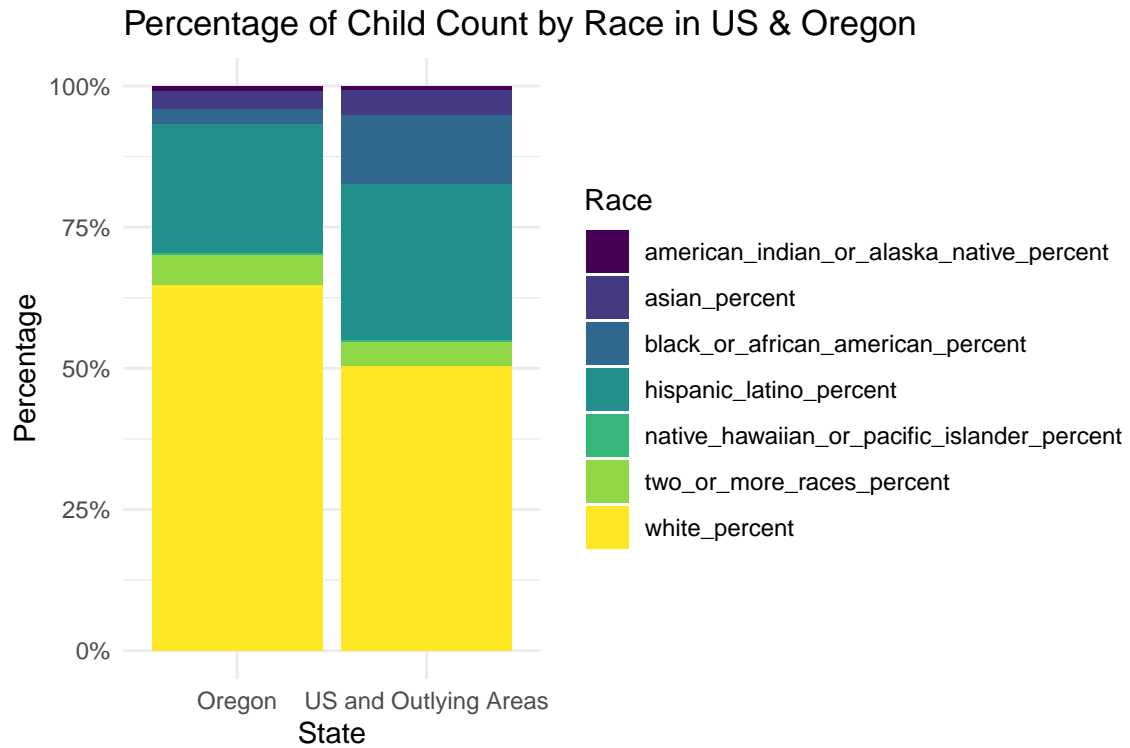
Table 2: Child Count (US & Oregon)

Category	V1	V2
state	Oregon	US and Outlying Areas
american_indian_or_alaska_native_percent	0.87	0.69
asian_percent	3.27	4.39
black_or_african_american_percent	2.69	12.35
hispanic_latino_percent	22.77	27.65
native_hawaiian_or_pacific_islander_percent	0.3	0.3
two_or_more_races_percent	5.41	4.23
white_percent	64.69	50.38

B-2: visualization 2 FIX IT!!! (OLD: SOMEWHERE ALONG THE LINE I LOST THE DATA ROWS IN DF)

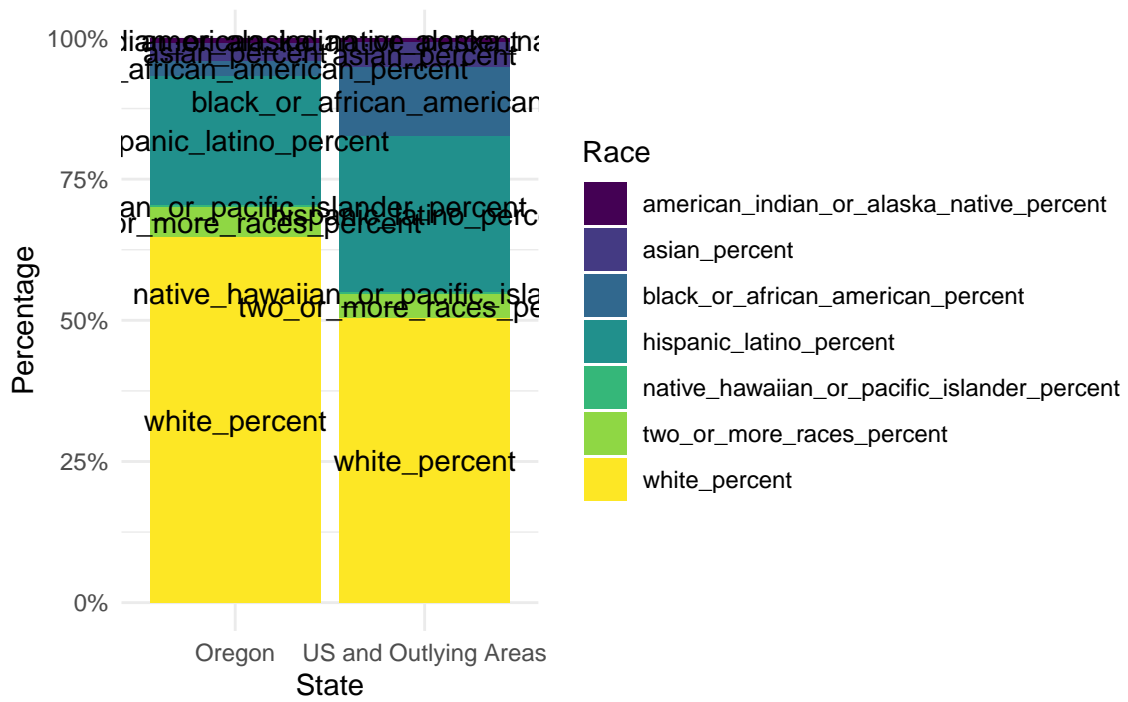
```
chr [1:14] "0.87" "0.69" "3.27" "4.39" "2.69" "12.35" "22.77" "27.65" ...
```



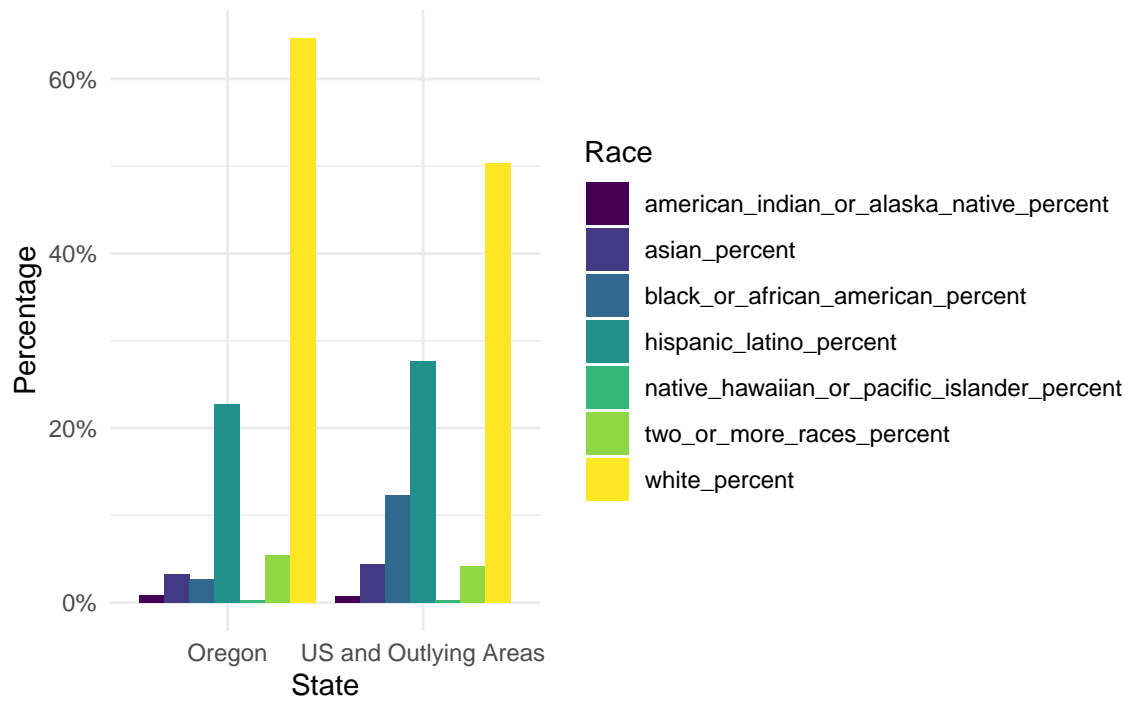


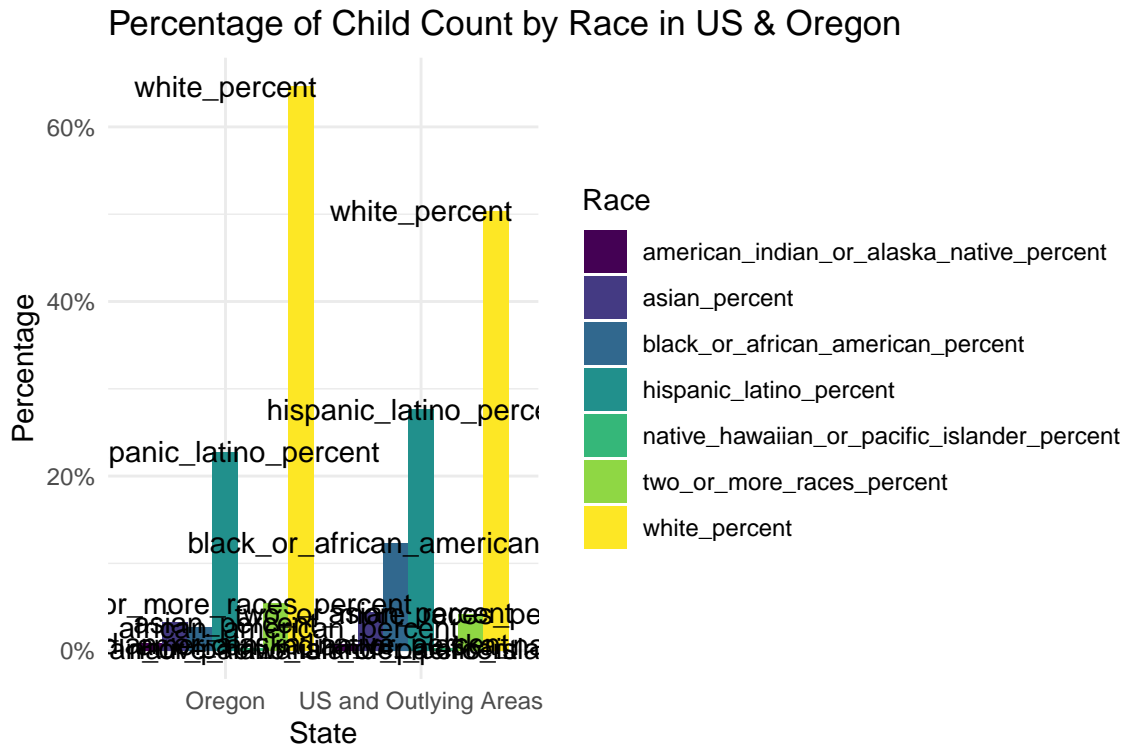
B2 Visualization 2 v.2 - it has labels on the bar but it's ugly as hell

Percentage of Child Count by Race in US & Oregon

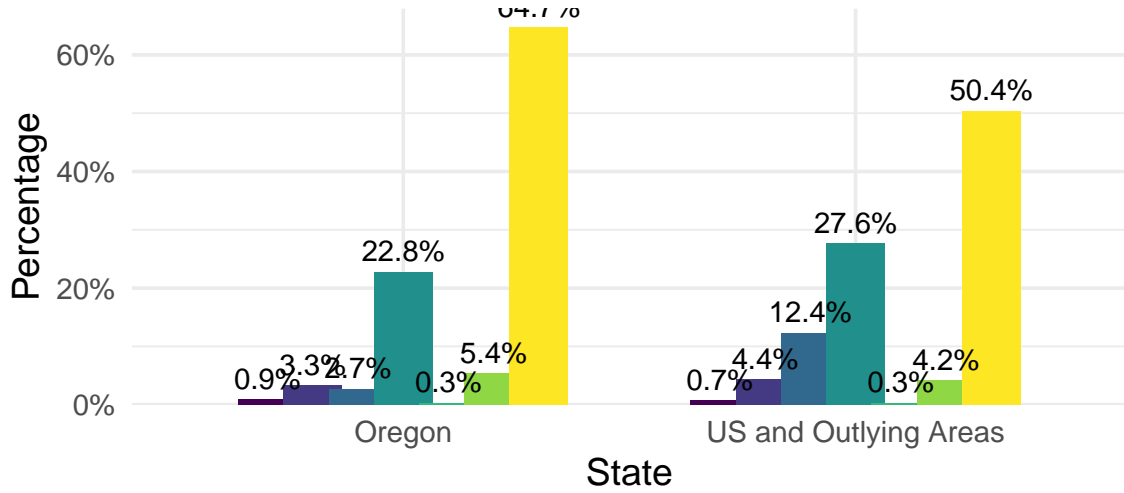


Percentage of Child Count by Race in US & Oregon





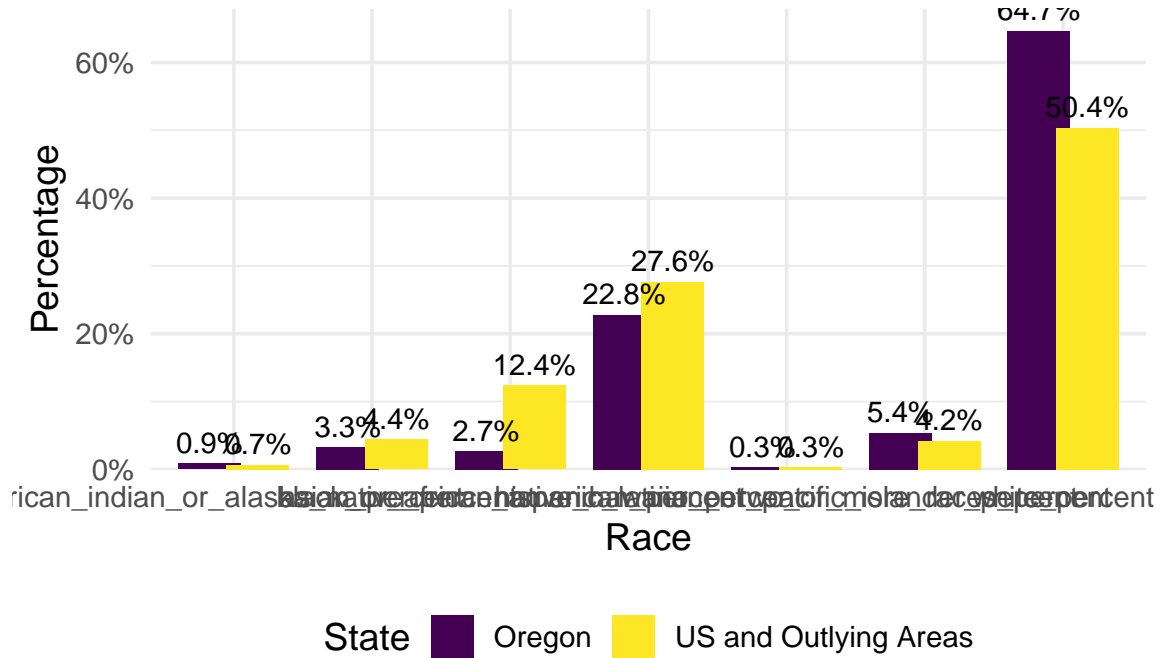
Percentage of Child Count by Race in US & Orego

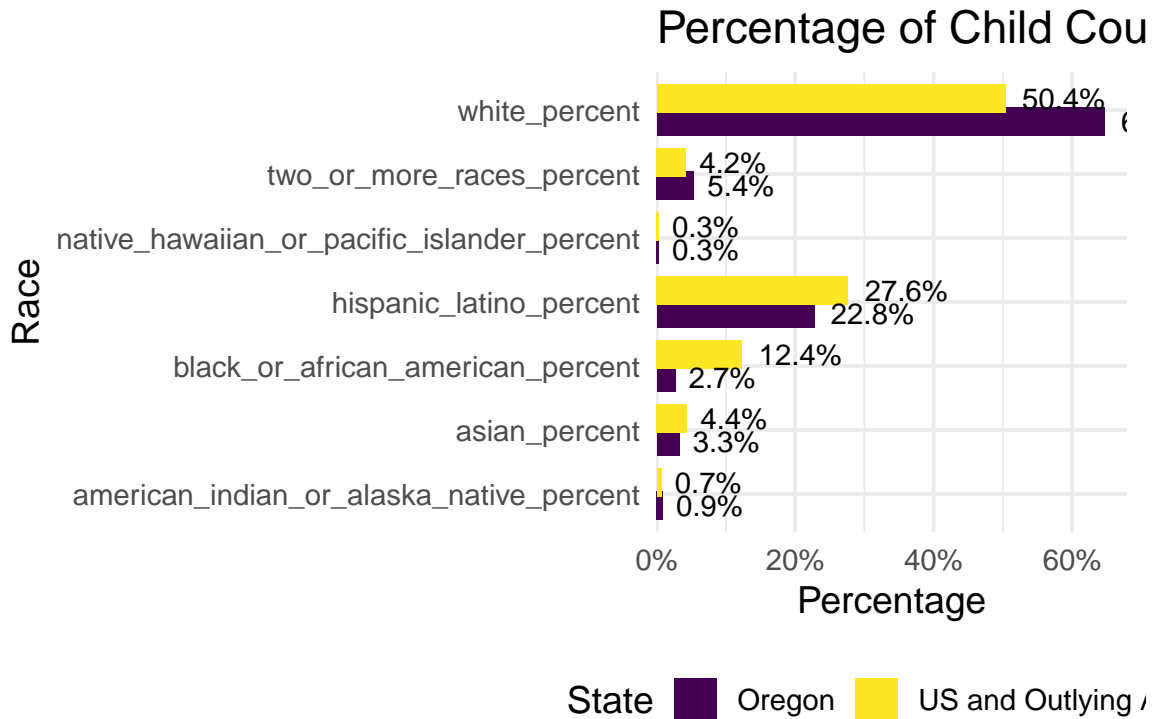


aska_native_percent black_or_african_american_percent native_hawaiian_or_

hispanic_latino_percent two_or_more_races

Percentage of Child Count by Race in US & Orego





C. National and Oregon EXIT data by RACE

I FIXED THE MISSING COLUMN by adding back part_b_eligibility_not_determined. I think this is what I can use for CHI-SQUARE WITH RESIDUALS?

I should be able to export df to excel this way but haven't tried it yet.

agg_by_race_and_state

OH NO where did Part B eligibility not determined go?!?!?

I'm trying out to see if I can do the chi-square with residuals (per <https://chatgpt.com/share/67a1833d-9fc4-8012-8193-b6fc358a9687>)

Chi-square with Residuals 1:

R doesn't like spaces or dashes / - that's why we did clean names, it could work but it can be tricky later

Chi-square with Residuals 2:

Pearson's Chi-squared test

data: race_matrix
X-squared = 88130, df = 36, p-value < 2.2e-16

Chi-square with Residuals 3:

Cameron: Residuals are what we are measuring anyway. If nothing was happening, what would be the expected values in the cells in the matrix (so the residuals = differences between expected and what we see) so it's a raw differences

	exit_total	withdrawal_by_parent
Alaska Native/American Indian	-2.271421	-1.529332
Asian	3.969401	16.392776
Black/African American	7.392204	-32.563128
Hispanic/Latino	-2.007889	-44.502779
More than Two Races	-4.250400	5.768394
Pacific Islander	1.568056	1.271574
White	-2.817433	52.320627

	attempts_to_contact_unsuccessful
Alaska Native/American Indian	32.766855
Asian	-46.849271
Black/African American	145.362643
Hispanic/Latino	41.042318
More than Two Races	9.926835
Pacific Islander	5.482329
White	-123.606382

	moved_out_of_state	part_b_eligible_exiting_part_c
Alaska Native/American Indian	5.200877	4.008193
Asian	37.157114	1.334661
Black/African American	-5.841365	-30.058085
Hispanic/Latino	-44.978596	-21.284323
More than Two Races	20.190835	5.754274
Pacific Islander	8.578719	-4.113435
White	18.873265	35.792944

	complete_or_not_eligible
Alaska Native/American Indian	-9.771775
Asian	-23.542186
Black/African American	-82.092145
Hispanic/Latino	-70.955800
More than Two Races	1.450087
Pacific Islander	-6.844091
White	129.036997

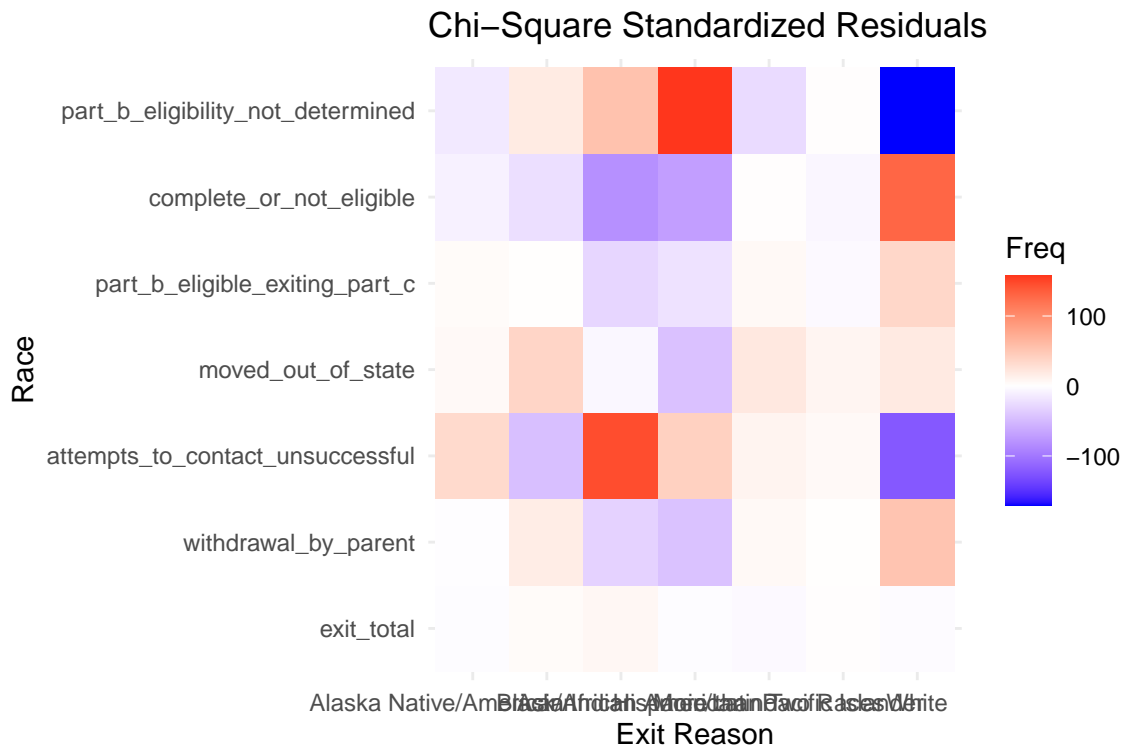
	part_b_eligibility_not_determined
Alaska Native/American Indian	-16.004425

Asian	18.345906
Black/African American	54.190397
Hispanic/Latino	157.395198
More than Two Races	-26.019725
Pacific Islander	1.420595
White	-170.810660

Chi-square with Residuals 4:

Cameron: How can I reverse the order of Y axis (and I should delete the exit total row too)

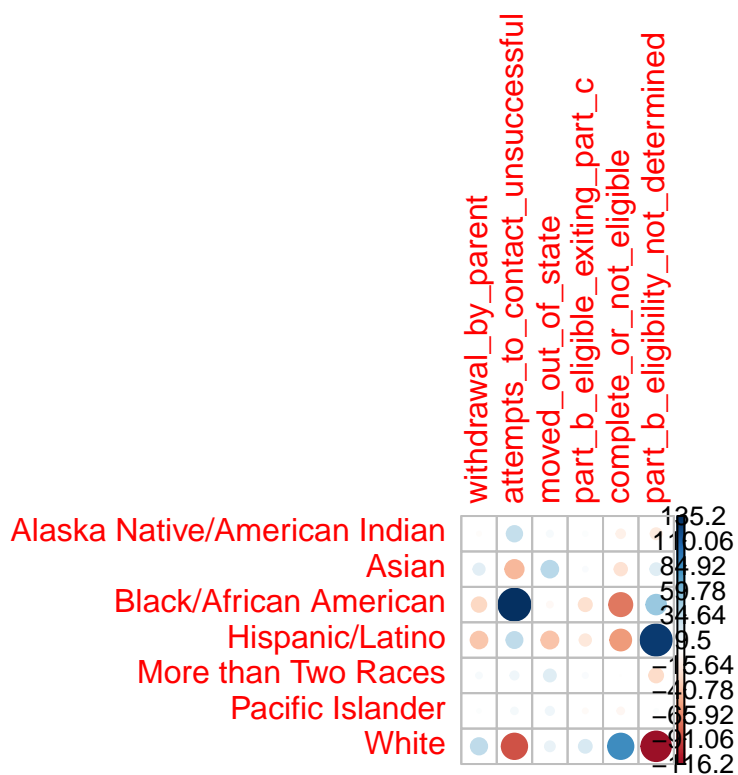
Chi-square with Residuals: Viz 1 (HEATMAP)



Chi-square with Residuals: Viz 2 (CORR PLOT: https://www.sthda.com/english/wiki/chi-square-test-of-independence-in-r#google_vignette)

```
[1] "exit_total" "withdrawal_by_parent"
[3] "attempts_to_contact_unsuccessful" "moved_out_of_state"
[5] "part_b_eligible_exiting_part_c" "complete_or_not_eligible"
[7] "part_b_eligibility_not_determined"
```

corrplot :) Trial 1: <https://cran.r-project.org/web/packages/corrplot/vignettes/corrplot-intro.html>



corrplot trial 2:

	withdrawal_by_parent	attempts_to_contact_unsuccessful	moved_out_of_state	part_b_eligible_exiting_part_c	complete_or_not_eligible	part_b_eligibility_not_determined
Alaska Native/American Indian	31.37	-9.2	125.2			
Asian	-44.26	-720.5	110.06			
Black/African American	135.29	-70.5	84.92			
Hispanic/Latino	37.63	151.28	59.78			
More than Two Races	18.32	-25	34.64			
Pacific Islander						
White	-85.52	85.16	16.2			