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

Cameron helped me (google: kable and don't put the category names on top)

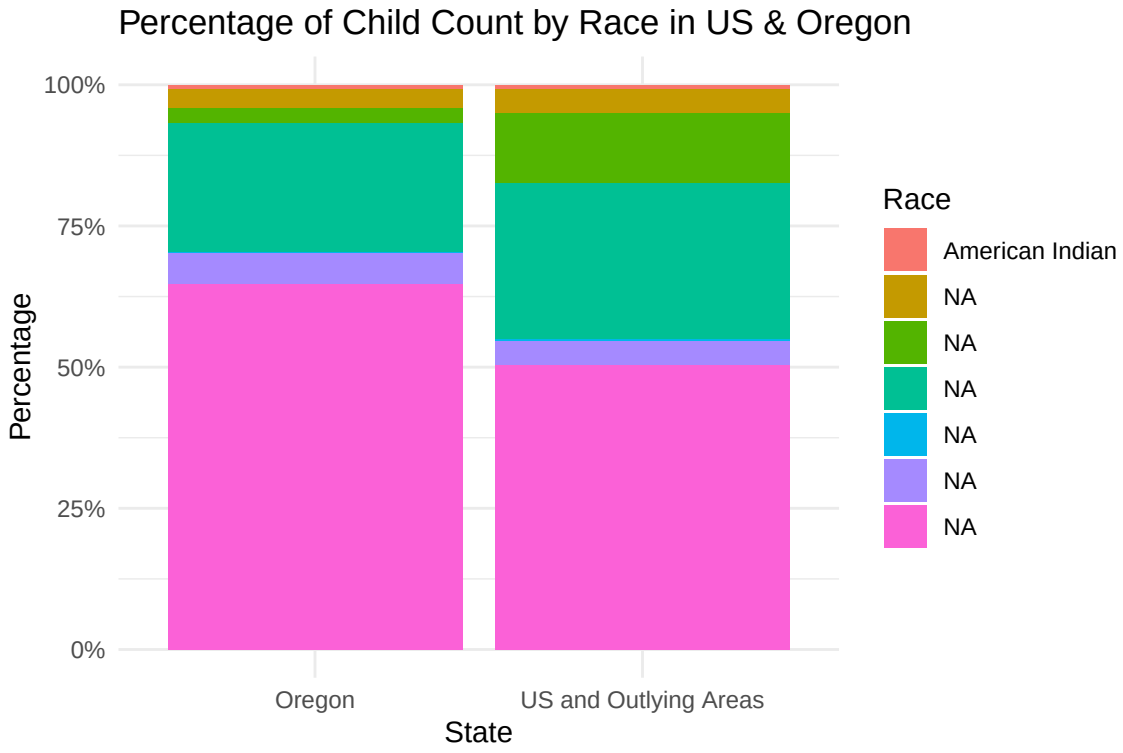
Table 2: Child Count (US & Oregon)

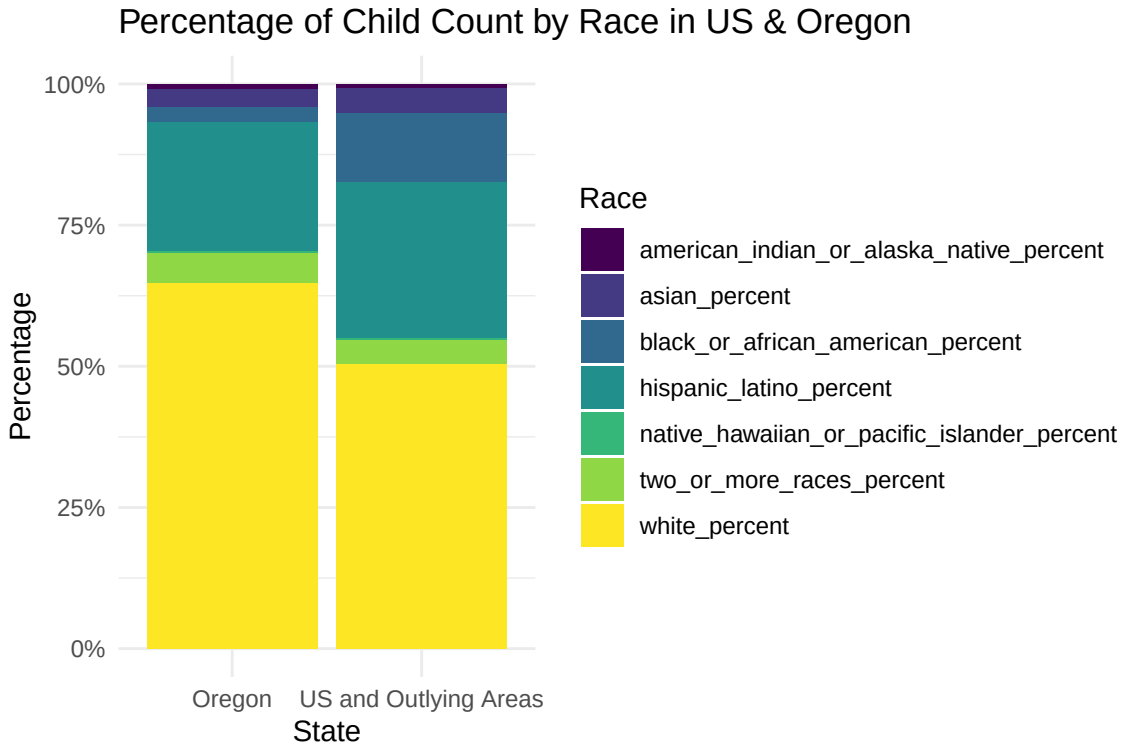
Category	V1	V2
Area	Oregon	US and Outlying Areas
American Indian or Alaska Native	0.87	0.69
Asian	3.27	4.39
Black or African American	2.69	12.35
Hispanic or Latino	22.77	27.65
Native Hawaiian or Pacific Islander	0.3	0.3
Two or More Races	5.41	4.23
White	64.69	50.38

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

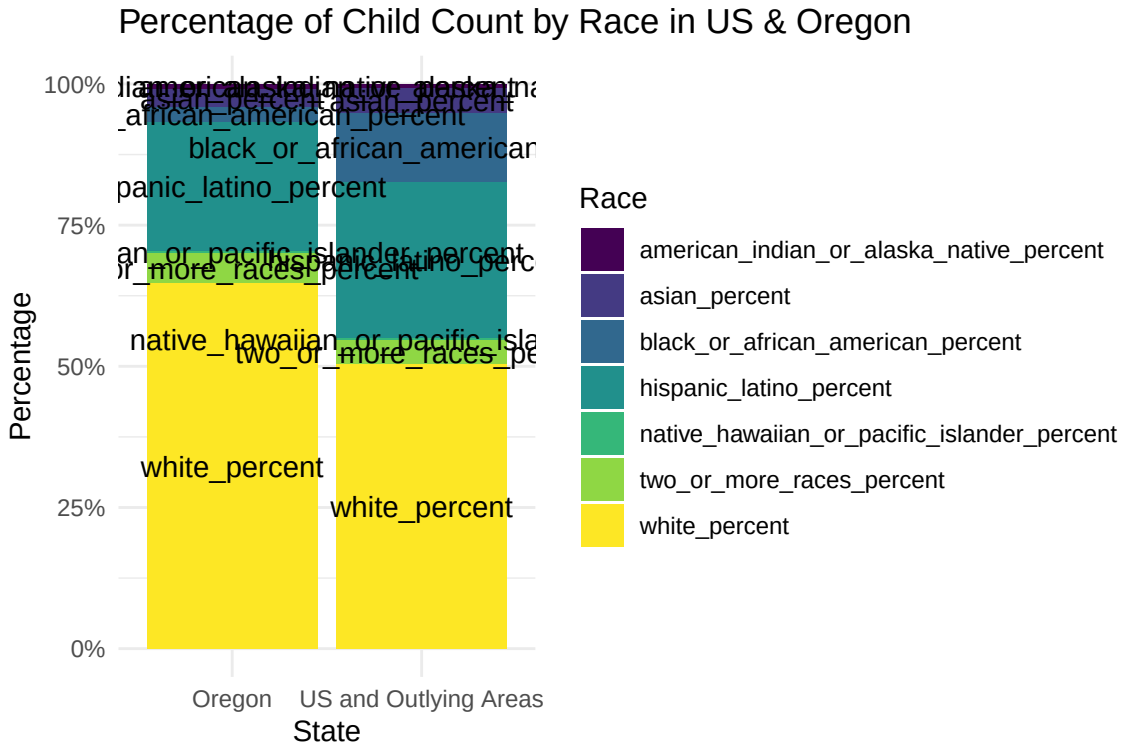
```
chr [1:14] "0.87" "0.69" "3.27" "4.39" "2.69" "12.35" "22.77" "27.65" ...
```

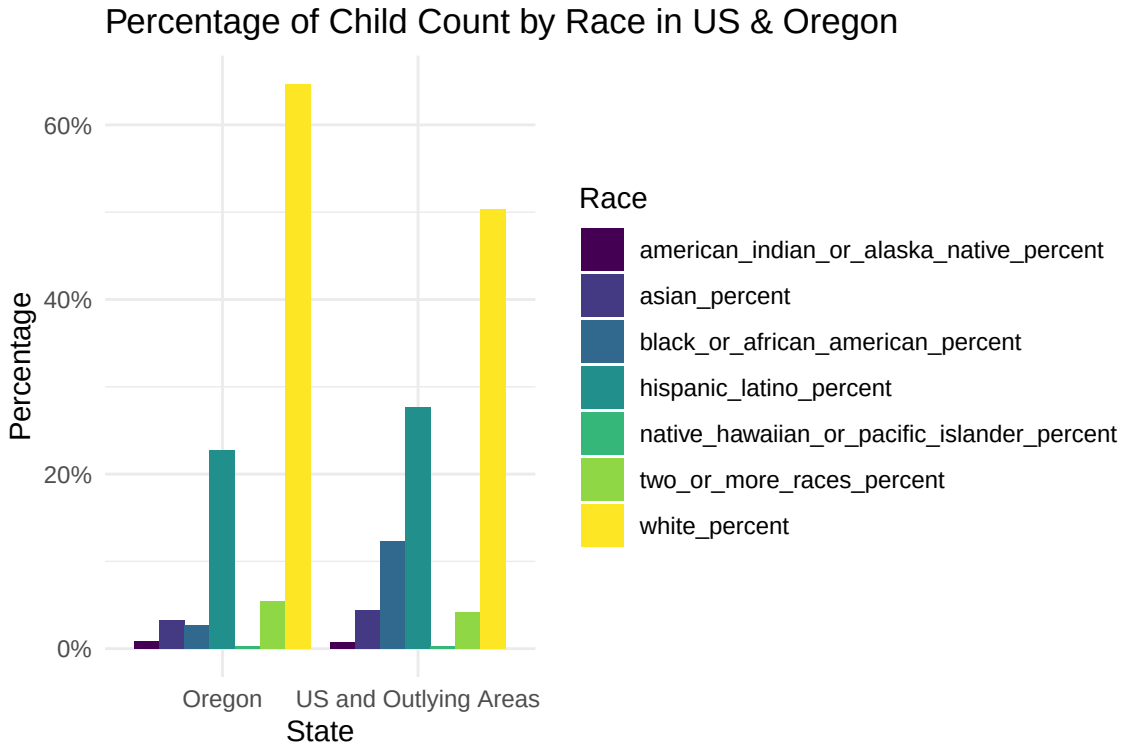
CAMERON helped - change the race category names back to what it should look like. Don't label them each.

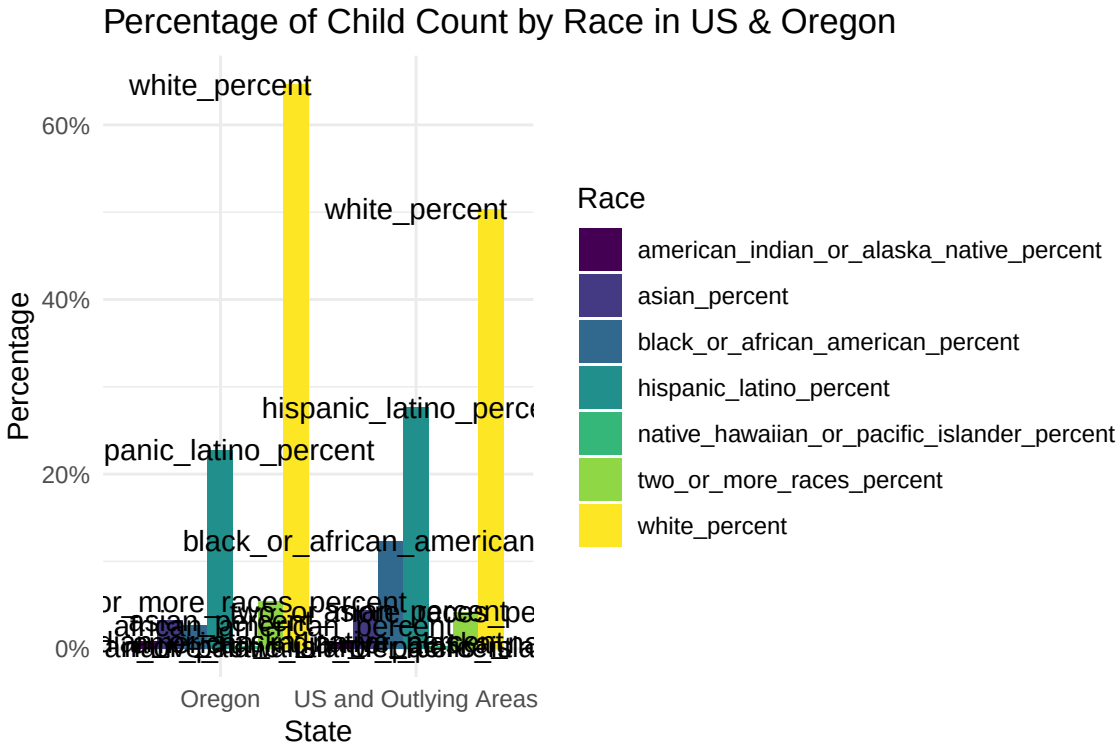


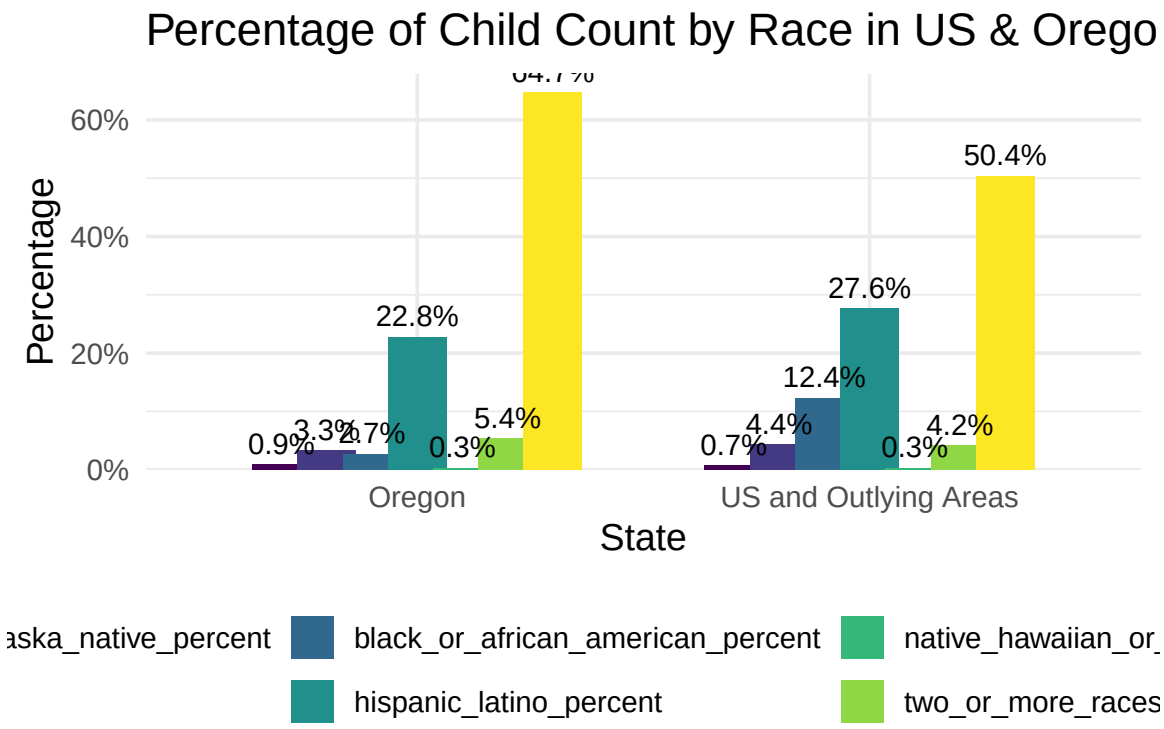


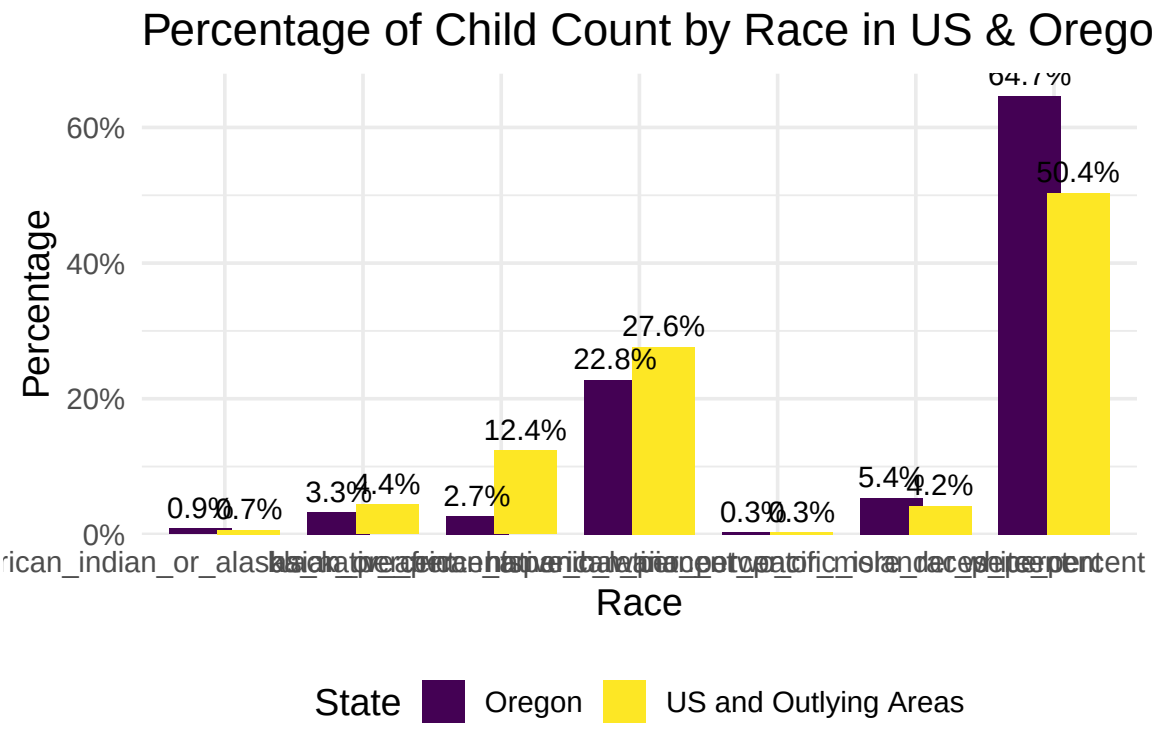
B2 Visualization 2 v.2 - it has labels on the bar but it's ugly


Percentage of Child Count by Race in US & Oregon
100%
75%
50%
25%
0%
Percentage
white_percent
white_percent
Oregon
US and Outlying Areas
State
Race
american_indian_or_alaska_native_percent
asian_percent
black_or_african_american_percent
hispanic_latino_percent
native_hawaiian_or_pacific_islander_percent
two_or_more_races_percent
white_percent

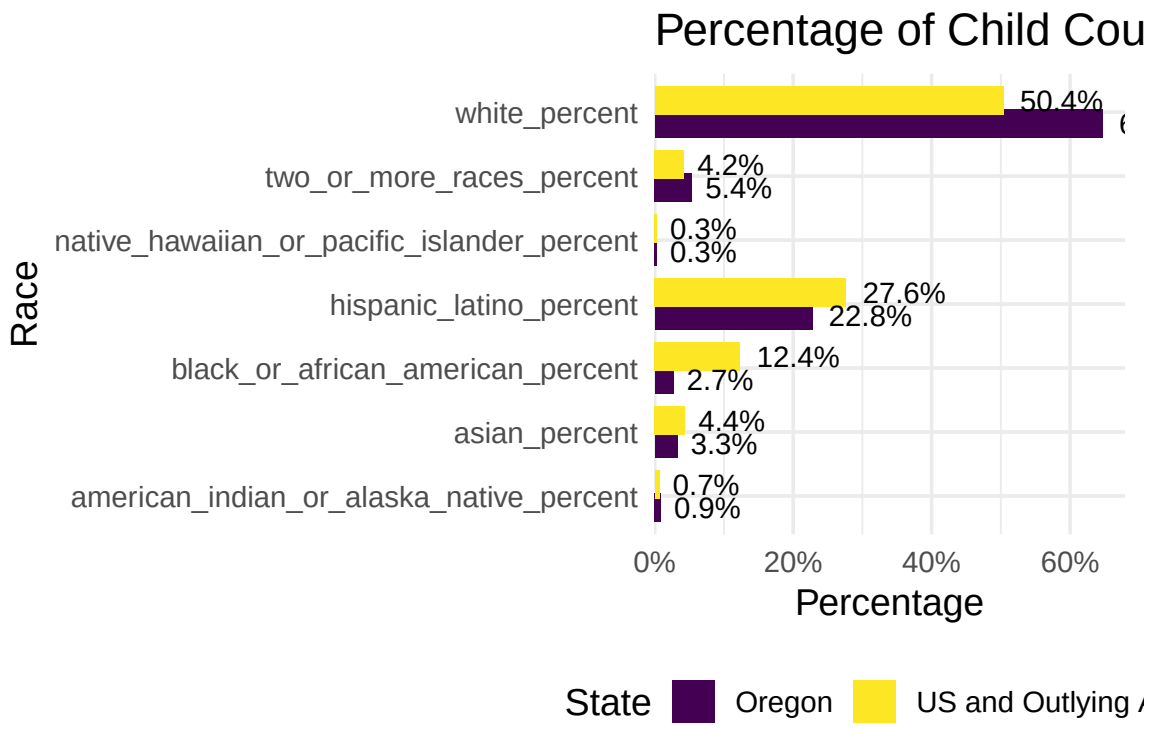

Percentage of Child Count by Race in US & Oregon
60%
40%
20%
0%
Percentage
Oregon
US and Outlying Areas
State
Race
american_indian_or_alaska_native_percent
asian_percent
black_or_african_american_percent
hispanic_latino_percent
native_hawaiian_or_pacific_islander_percent
two_or_more_races_percent
white_percent


Percentage of Child Count by Race in US & Oregon
white_percent
60%
white_percent
40%
hispanic_latino_perc
panic_latino_percent
20%
black_or_african_american
0%
Oregon
US and Outlying Areas
State
Percentage
Race
american_indian_or_alaska_native_percent
asian_percent
black_or_african_american_percent
hispanic_latino_percent
native_hawaiian_or_pacific_islander_percent
two_or_more_races_percent
white_percent


Percentage of Child Count by Race in US & Orego
Percentage
60%
40%
20%
0%
0.9%
3.3%
2.7%
22.8%
0.3%
5.4%
0.7%
4.4%
12.4%
27.6%
0.3%
4.2%
50.4%
Oregon
US and Outlying Areas
State
aska_native_percent
black_or_african_american_percent
native_hawaiian_or_
hispanic_latino_percent
two_or_more_races



Cameron might go with this one. Look into the feature within ggplot for "greatest to least percentage"



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

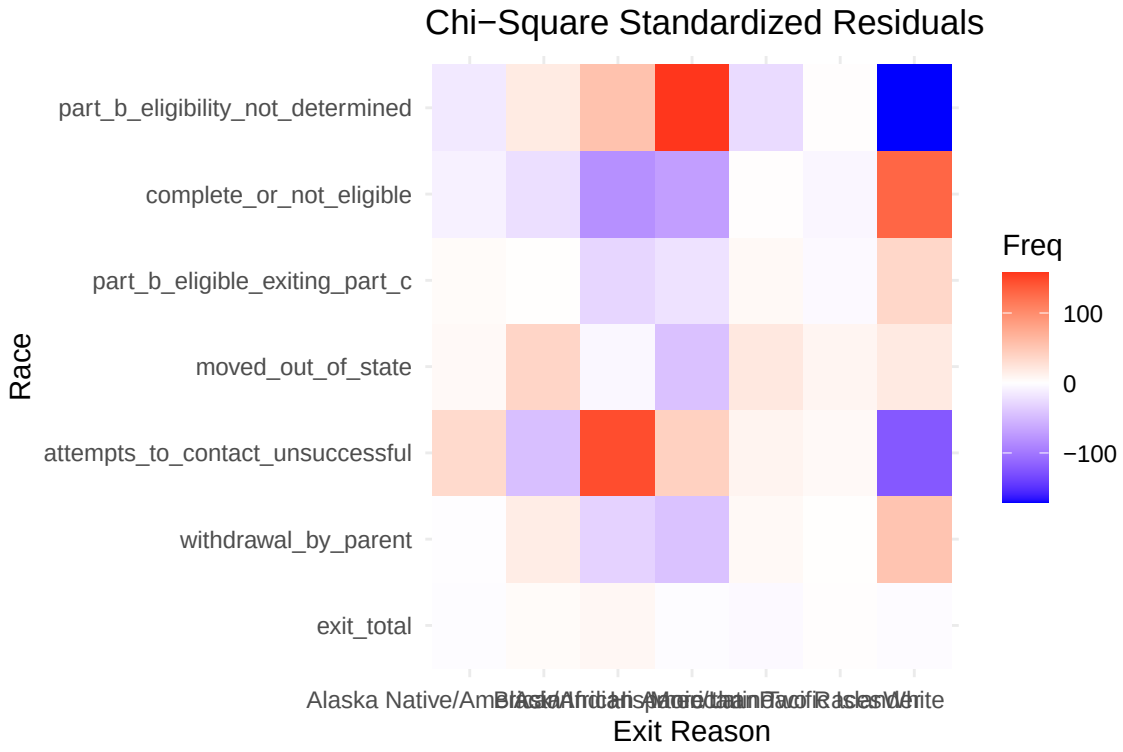
```
                            exit_total withdrawal_by_parent
Alaska Native/American Indian  -2.271421            -1.529332
Asian                           3.969401            16.392776
Black/African American          7.392204           -32.563128
Hispanic/Latino                -2.007889           -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)

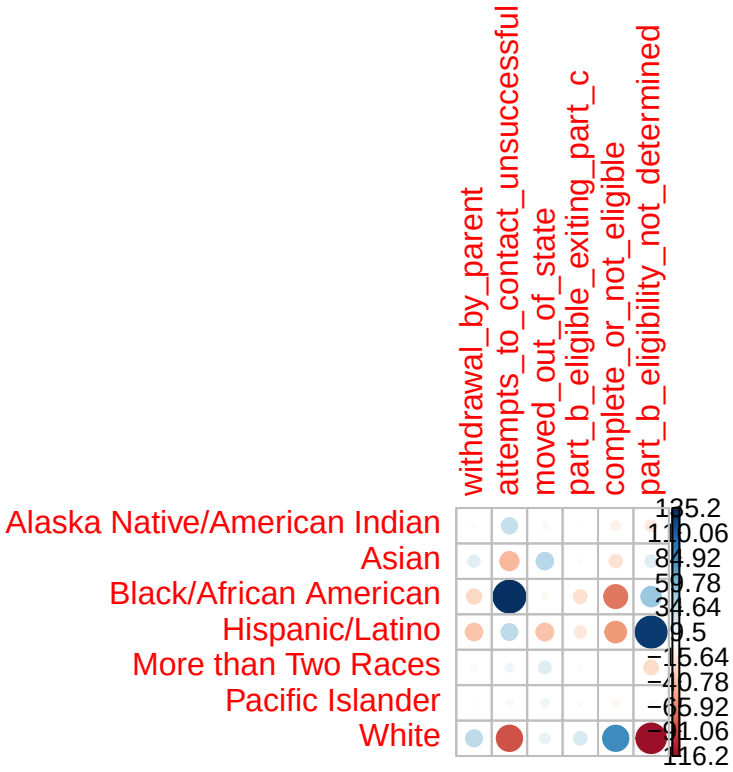
Chi-square with Residuals: Viz 1 (HEATMAP)



Chi-square with Residuals: Viz 2 (CORRPLOT: 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:

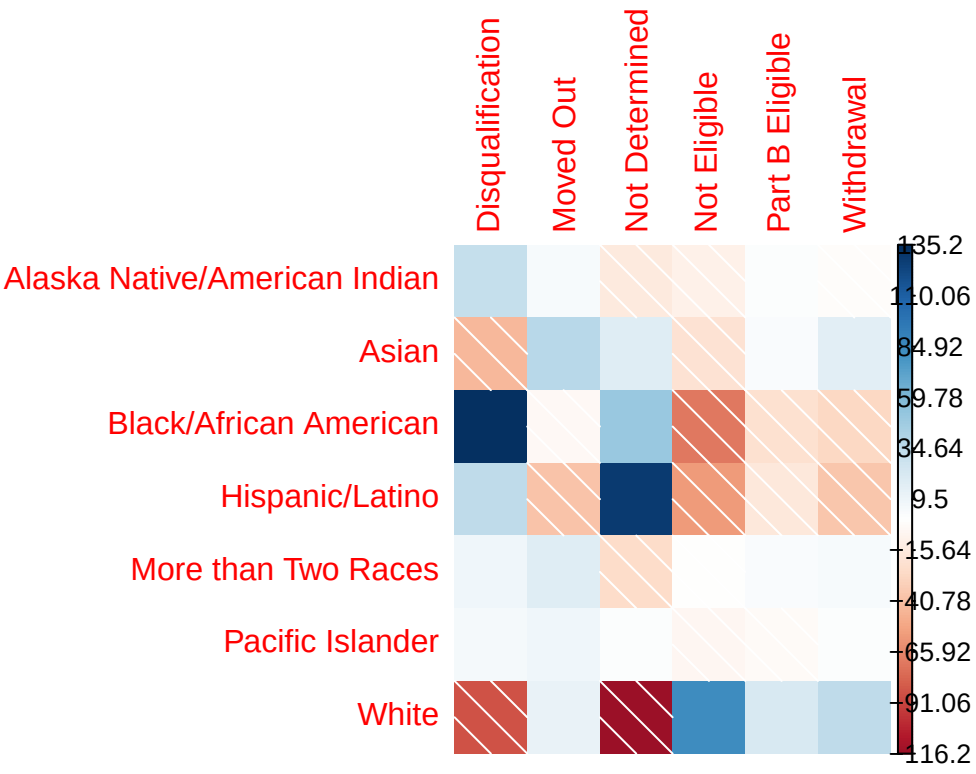
Cameron: If I am presenting to researchers, they probably want something like the table with numbers rather than bubbles.

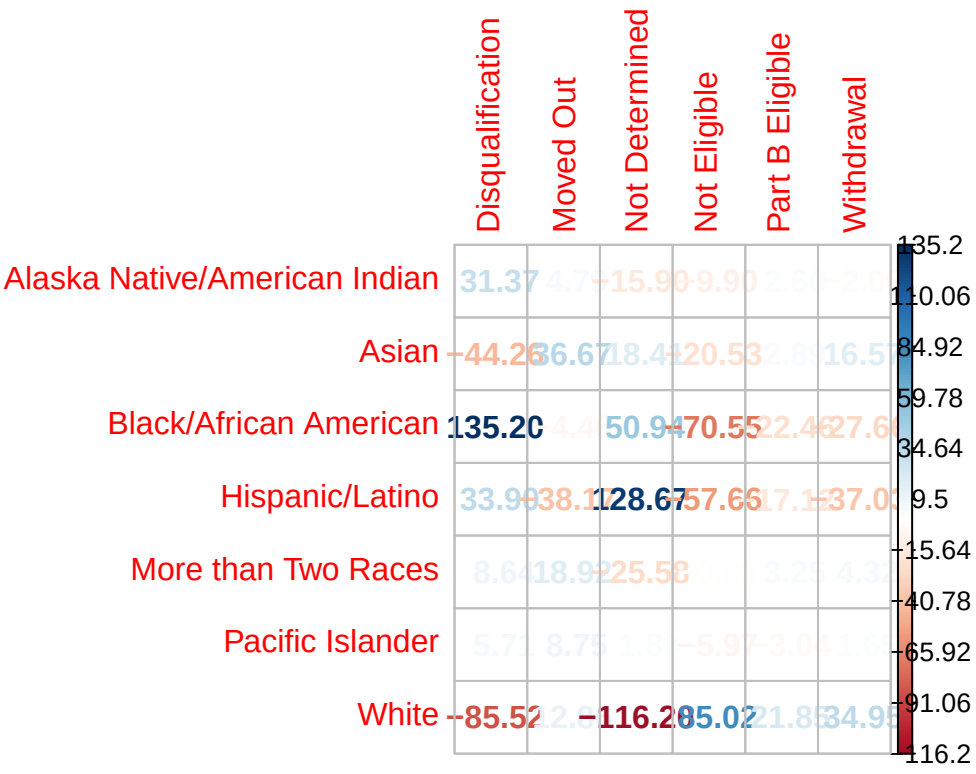
I can change the ways that categories and such are named in the source source data, but that might make some codes not run/make some complications. So! Just try to rename them within each visualization chunks.

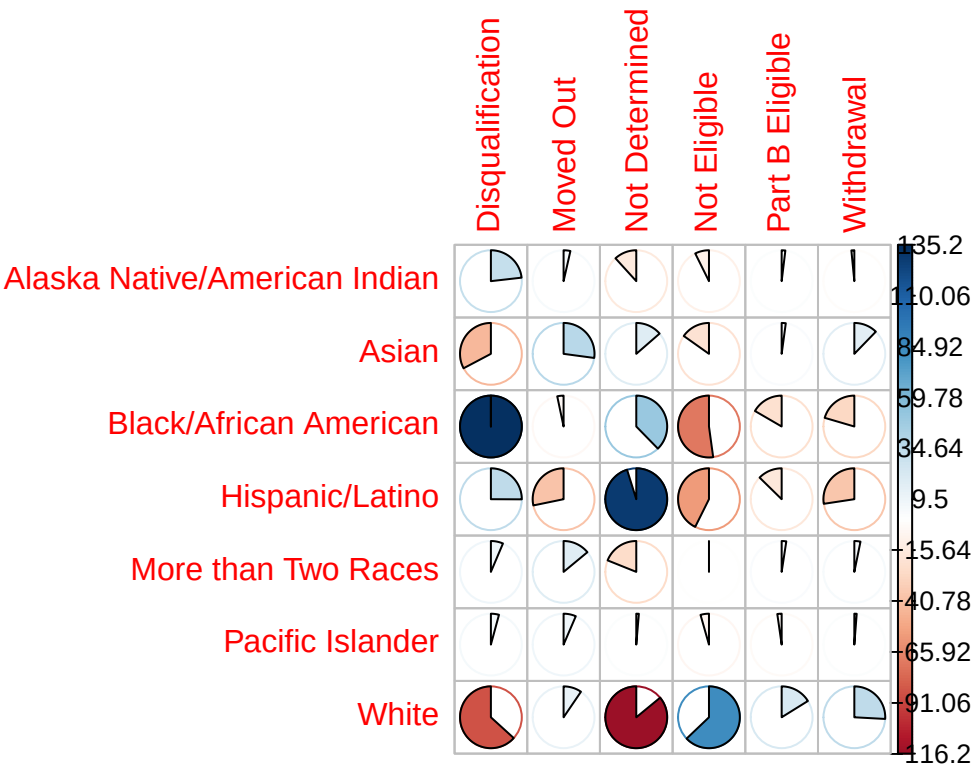
Cameron helping me with the change labels on google.

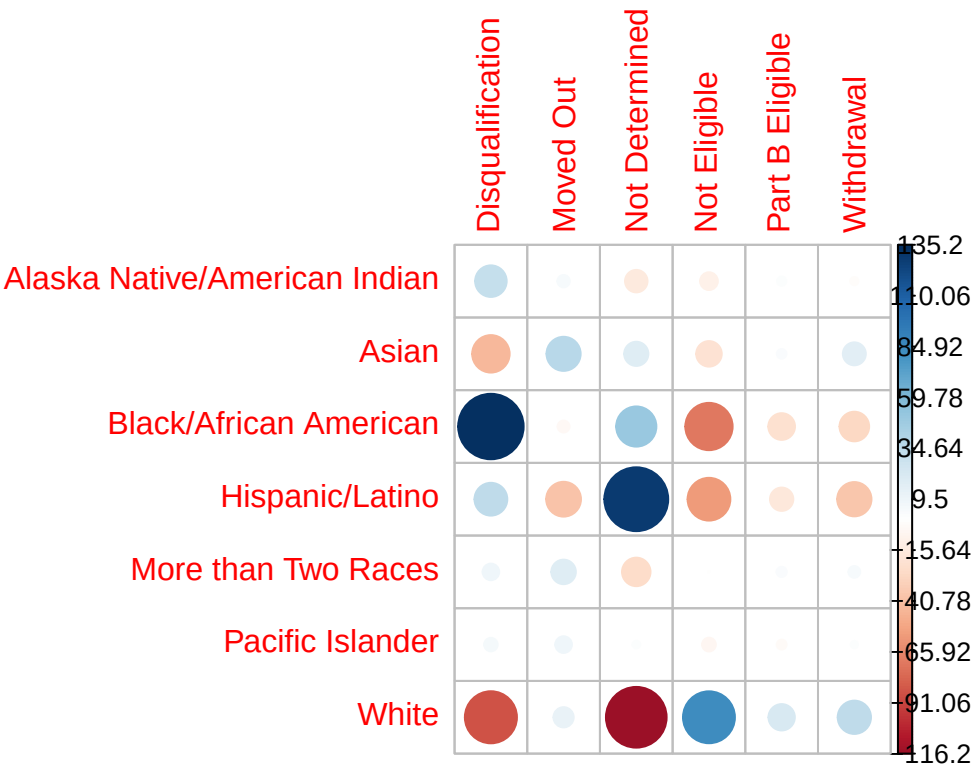
RENAMED THE CATEGORIES

REORDERED THE CATEGORIES ALPHABETICALLY


Disqualification
Moved Out
Not Determined
Not Eligible
Part B Eligible
Withdrawal
Alaska Native/American Indian
Asian
Black/African American
Hispanic/Latino
More than Two Races
Pacific Islander
White
135.2
110.06
84.92
59.78
34.64
9.5
−15.64
−40.78
−65.92
−91.06
−116.2


Disqualification
Moved Out
Not Determined
Not Eligible
Part B Eligible
Withdrawal
Alaska Native/American Indian
Asian
Black/African American
Hispanic/Latino
More than Two Races
Pacific Islander
White
31.37
−15.90
−9.90
−44.26
−20.53
135.20
50.94
−70.55
128.67
−57.66
−37.03
−85.52
−116.28
−85.02
135.2
110.06
84.92
59.78
34.64
9.5
−15.64
−40.78
−65.92
−91.06
−116.2


Disqualification
Moved Out
Not Determined
Not Eligible
Part B Eligible
Withdrawal
Alaska Native/American Indian
Asian
Black/African American
Hispanic/Latino
More than Two Races
Pacific Islander
White
135.2
110.06
84.92
59.78
34.64
9.5
-15.64
-40.78
-65.92
-91.06
-116.2


Disqualification
Moved Out
Not Determined
Not Eligible
Part B Eligible
Withdrawal
Alaska Native/American Indian
Asian
Black/African American
Hispanic/Latino
More than Two Races
Pacific Islander
White
135.2
110.06
84.92
59.78
34.64
9.5
-15.64
-40.78
-65.92
-91.06
-116.2