gtsummary in quarto

Customization of tbl_summary()

Characteristic	Male , $N = 6,403$	Female, $N = 6,283$
race_eth_cat		
Hispanic	$1,000 \ (16\%)$	$1,002 \ (16\%)$
Black	$1,613\ (25\%)$	$1,561\ (25\%)$
Non-Black, Non-Hispanic	3,790 (59%)	3,720 (59%)
region_cat		
Northeast	1,296 (21%)	1,254 (20%)
North Central	$1,488 \ (24\%)$	1,446 (23%)
South	2,251 (36%)	2,317 (38%)
West	1,253 (20%)	1,142 (19%)
Unknown	115	124
eyesight_cat		
Excellent	1,582 (38%)	1,334 (31%)
Very good	1,470 (35%)	1,500 (35%)
Good	792 (19%)	1,002 (23%)
Fair	267~(6.4%)	365~(8.5%)
Poor	47 (1.1%)	85~(2.0%)
Unknown	2,245	1,997
glasses	1,566 (38%)	2,328 (54%)
Unknown	2,241	1,995
age_bir	25(21, 29)	22(19, 27)
Unknown	3,652	3,091

Characteristic	Male , $N = 6,403$	Female, $N = 6,283$		
Race/ethnicity				
Hispanic	$1,000 \ (16\%)$	1,002 (16%)		
Black	1,613 (25%)	1,561 (25%)		
Non-Black, Non-Hispanic	3,790 (59%)	3,720 (59%)		
Region				
Northeast	1,296 (21%)	1,254 (20%)		
North Central	1,488 (24%)	1,446 (23%)		
South	2,251 (36%)	2,317 (38%)		
West	1,253 (20%)	1,142 (19%)		
Missing	115	124		
Eyesight				
Excellent	1,582 (38%)	1,334 (31%)		
Very good	1,470 (35%)	1,500 (35%)		
Good	792 (19%)	1,002 (23%)		
Fair	267 (6.4%)	365~(8.5%)		
Poor	47 (1.1%)	85 (2.0%)		
Missing	2,245	1,997		
Wears glasses	1,566 (38%)	2,328 (54%)		
Missing	2,241	1,995		
Age at first birth	25 (21, 29)	22(19, 27)		
Missing	3,652	3,091		

```
tbl_summary(
 nlsy,
 by = sex_cat,
 include = c(sex_cat, race_eth_cat,
              eyesight_cat, glasses, age_bir),
 label = list(
   race_eth_cat ~ "Race/ethnicity",
    eyesight_cat ~ "Eyesight",
   glasses ~ "Wears glasses",
   age_bir ~ "Age at first birth"
 ),
 missing_text = "Missing") |>
 add_p(test = list(all_continuous() ~ "t.test",
                    all_categorical() ~ "chisq.test")) |>
 add_overall(col_label = "**Total**") |>
 bold_labels() |>
 modify_footnote(update = everything() ~ NA) |>
```

```
modify_header(label = "**Variable**", p.value = "**P**")
```

Variable	Total	Male, $N = 6,403$	Female, $N = 6,283$	P
Race/ethnicity				0.8
Hispanic	2,002 (16%)	$1,000 \ (16\%)$	$1,002 \ (16\%)$	
Black	$3,174\ (25\%)$	$1,613\ (25\%)$	$1,561\ (25\%)$	
Non-Black,	7,510 (59%)	3,790 (59%)	3,720 (59%)	
Non-Hispanic				
Eyesight				< 0.001
Excellent	$2,916 \ (35\%)$	1,582 (38%)	1,334 (31%)	
Very good	2,970 (35%)	1,470 (35%)	1,500 (35%)	
Good	1,794 (21%)	792 (19%)	$1,002\ (23\%)$	
Fair	$632\ (7.5\%)$	267 (6.4%)	365~(8.5%)	
Poor	$132\ (1.6\%)$	$47 \ (1.1\%)$	85~(2.0%)	
Missing	4,242	$2,\!245$	1,997	
Wears glasses	3,894~(46%)	1,566 (38%)	2,328 (54%)	< 0.001
Missing	4,236	2,241	1,995	
Age at first birth	$23\ (20,\ 28)$	$25\ (21,\ 29)$	$22\ (19,\ 27)$	< 0.001
Missing	6,743	$3,\!652$	3,091	

Univariate regression

Characteristic	N	Beta	95% CI	p-value
age_bir	4,773	595	538, 652	< 0.001
sex_cat	10,195			
Male			_	
Female		-358	-844, 128	0.15
race_eth_cat	10,195			
Hispanic			_	
Black		-1,747	-2,507, -988	< 0.001
Non-Black, Non-Hispanic		3,863	3,195, 4,530	< 0.001
eyesight_cat	6,789			
Excellent			_	
Very good		-578	-1,319, 162	0.13
Good		-1,863	-2,719, -1,006	< 0.001
Fair		-4,674	-5,910, -3,439	< 0.001
Poor		-6,647	-9,154, -4,140	< 0.001

Characteristic	N	OR	95% CI	p-value
age_bir	5,813	1.02	1.01, 1.03	< 0.001
sex_cat	8,450			
Male				
Female		1.97	1.81, 2.15	< 0.001
$race_eth_cat$	8,450			
Hispanic				
Black		0.76	0.67, 0.86	< 0.001
Non-Black, Non-Hispanic		1.34	1.19, 1.50	< 0.001
eyesight_cat	8,444			

Characteristic	N	OR	95% CI	p-value
Excellent			_	
Very good		0.93	0.84, 1.03	0.2
Good		0.95	0.84, 1.07	0.4
Fair		0.81	0.68, 0.96	0.016
Poor		1.15	0.81, 1.63	0.4

Multivariable regressions

Some regressions

Tables

```
tbl_regression(
  linear_model,
  intercept = TRUE,
  label = list(
    sex_cat ~ "Sex",
    race_eth_cat ~ "Race/ethnicity",
    age_bir ~ "Age at first birth"
))
```

Characteristic	Beta	95% CI	p-value
(Intercept)	2,147	493, 3,802	0.011
Sex			
Male			
Female	25	-654, 705	> 0.9
Age at first birth	438	381, 495	< 0.001
Race/ethnicity			
Hispanic		_	
Black	-772	-1,714, 171	0.11
Non-Black, Non-Hispanic	7,559	6,676, 8,442	< 0.001

```
tbl_regression(
  logistic_model,
  exponentiate = TRUE,
  label = list(
    sex_cat ~ "Sex",
    eyesight_cat ~ "Eyesight",
    income ~ "Income"
))
```

Characteristic	OR	95% CI	p-value
Eyesight			
Excellent		_	
Very good	0.92	0.82, 1.03	0.2
Good	0.92	0.80, 1.05	0.2
Fair	0.80	0.66, 0.98	0.028
Poor	1.03	0.69, 1.53	0.9
Sex			
Male		_	
Female	2.04	1.85, 2.25	< 0.001
Income	1.00	1.00, 1.00	< 0.001

```
tbl_no_int <- tbl_regression(
  linear_model,</pre>
```

```
intercept = TRUE,
  label = list(
    sex_cat ~ "Sex",
   race_eth_cat ~ "Race/ethnicity",
    age_bir ~ "Age at first birth"
  ))
tbl_int <- tbl_regression(</pre>
  linear_model_int,
  intercept = TRUE,
  label = list(
    sex_cat ~ "Sex",
   race_eth_cat ~ "Race/ethnicity",
   age_bir ~ "Age at first birth",
    `sex_cat:age_bir` ~ "Sex/age interaction"
  ))
tbl_merge(list(tbl_no_int, tbl_int),
          tab_spanner = c("**Model 1**", "**Model 2**"))
```

Characteristic	Beta	95% CI	p-value	Beta	95% CI	p-value
(Intercept)	2,147	493, 3,802	0.011	4,064	1,884,	< 0.001
,					$6,\!245$	
Sex						
Male	—				_	
Female	25	-654,705	> 0.9	-3,635	-6,432,	0.011
					-838	
Age at first birth	438	381, 495	< 0.001	364	285, 443	< 0.001
Race/ethnicity						
Hispanic	_			_		
Black	-772	-1,714, 171	0.11	-759	-1,701, 183	0.11
Non-Black,	$7,\!559$	6,676,	< 0.001	7,550	6,668,	< 0.001
Non-Hispanic		8,442			8,433	
Sex/age interaction						
Female * Age at first				149	39, 260	0.008
birth						