

## Getting Started

Load the usual packages (which should now include `huxtable`!). Remember to include `warning = FALSE`, `header = FALSE`, `message = FALSE` to suppress the loading output.

```
library(tidyverse)
library(huxtable)
```

We will be using the `gss` dataset for this review. Load the `gssr` package, the `gss_doc` documentation, and the `gss_all` dataframe.

```
library(gssr)
data(gss_doc)
data(gss_all)
```

Create a new dataframe called `review`. Filter the `gss_all` dataframe to keep only those observations from the 2010 waves and after. Select the variables we want.

```
review <- gss_all |>
  filter(year>=2010) |>
  select(year, intspace, consci, relig16, race, hispanic,
         sex, educ, age, id)
```

If you will be pulling the same variables in multiple chunks, it might make sense to store their names in a vector so you don't have to type them all every time.

```
my_variables <- c("year", "intspace", "consci", "relig16", "race",
                  "hispanic", "sex", "educ", "age", "id")
```

If you did this before the previous chunk, you could use the object name `my_variables` in the `select` function (note that you will get a warning if you don't assert you are using `all_of` the variables):

```
review <- gss_all |>
  filter(year>=2010) |>
  select(all_of(my_variables))
```

## Clean Up

The big thing to do before starting analyses is to confirm that all missing values have been coded as `NA`. Run a summary of the `review` dataframe to make sure `NAs` have been captured.

```
summary(review)
```

```
##      year      intspace      consci      relig16      race
## Min.   :2010   Min.     :1.00   Min.    :1.000   Min.    : 1.000   Min.    :1.000
## 1st Qu.:2012   1st Qu.:2.00   1st Qu.:1.000   1st Qu.: 1.000   1st Qu.:1.000
## Median :2014   Median :2.00   Median :2.000   Median : 1.000   Median :1.000
## Mean   :2014   Mean    :2.08   Mean    :1.643   Mean    : 2.008   Mean    :1.361
## 3rd Qu.:2016   3rd Qu.:3.00   3rd Qu.:2.000   3rd Qu.: 2.000   3rd Qu.:2.000
## Max.   :2018   Max.     :3.00   Max.    :3.000   Max.    :13.000   Max.    :3.000
##                NA's    :6287   NA's    :4188   NA's    :75
##      hispanic      sex      educ      age
## Min.   : 1.000   Min.    :1.000   Min.    : 0.00   Min.    :18.00
## 1st Qu.: 1.000   1st Qu.:1.000   1st Qu.:12.00   1st Qu.:34.00
## Median : 1.000   Median :2.000   Median :13.00   Median :48.00
## Mean    : 1.692   Mean    :1.554   Mean    :13.64   Mean    :48.72
## 3rd Qu.: 1.000   3rd Qu.:2.000   3rd Qu.:16.00   3rd Qu.:62.00
## Max.    :50.000   Max.    :2.000   Max.    :20.00   Max.    :89.00
## NA's    :33                NA's    :20      NA's    :34
##      id
## Min.   : 1
## 1st Qu.: 589
## Median :1178
## Mean    :1201
## 3rd Qu.:1767
## Max.    :2867
##
```

Recall that you can use the `gss_get_marginals()` function with `gss_doc` to see the labels for specific variables. This is a nice place to use the `my_variables` vector. If you save the output of this function, you will be able to easily refer to it later. I recommend opening the spreadsheet view of `my_codebook` (in the top right pane) after running the chunk below.

```
my_codebook <- gss_get_marginals(varnames = my_variables, data = gss_doc) |>
  select(id, percent, n, value, label)
```

Let's combine values from the `race` and `hispanic` variables to make a new variable called `racehisp`. The easiest way to do this is to first make a binary variable distinguishing those who are not Hispanic from those who are. The value of 1 for the `hispanic` variable is for respondents who are not Hispanic. We can use that in the `ifelse` function to create our binary variable.

```
review <- review |>
  mutate(anyhispanic = ifelse(hispanic==1, 0, 1))
```

Now we can combine values from this new `anyhispanic` variable and the race variable to create the `racehisp` categories:

```
review <- review |>
  mutate(racehisp = ifelse(anyhispanic==1, 4, race),
         racehisp = factor(racehisp,
                           labels = c("White", "Black", "Other", "Hispanic")))
```

Sometimes it's easier to create new variables instead of changing the values and labels of existing variables. Here we'll create new variables called `science` (taking the values of `consci`) and `space` (taking the values of `intspace`).

```
review <- review |>
  mutate(science = factor(consci,
                           levels = c(3, 2, 1),
                           labels = c("Hardly any", "Only some",
                                       "A great deal")),
         space = factor(intspace,
                        levels = c(3, 2, 1),
                        labels = c("Not interested",
                                   "Moderately interested",
                                   "Very interested")))
```

We can also collapse existing categories into bigger categories. We'll use the `relig16` variable as an example, creating a new variable called `religion` with broader categories.

```
table(review$relig16)
```

```
##
##      1      2      3      4      5      6      7      9      10     11     12     13
## 6102 3827  199 1007   64   51   60   74   55  244    9    4
```

Here we'll put all the respondents with values of 6-9 in the "Eastern" category, and those who are not Eastern, Protestant, Catholic, Jewish, or None in "Other":

```
review <- review |>
  mutate(religion = ifelse(relig16 == 1, "Protestant",
    ifelse(relig16 == 2, "Catholic",
      ifelse(relig16 == 3, "Jewish",
```

```

    ifelse(relig16 == 4, "None",
    ifelse(relig16 %in% 6:9, "Eastern", "Other")))),
    religion = factor(reigion,
    levels = c("Protestant", "Catholic", "Jewish",
    "Eastern", "Other", "None"))

```

## Three Way Table

For each religious category, we want to know the proportion with each level of confidence in science who are in each category of interest in space. One way to do this is with `group_by()` and `summarize()`. For that approach, we would need binary variables for each of the `space` categories. This might seem tedious, but in the long run it is more efficient since it will allow you to manipulate the variables for other purposes later.

```

review <- review |>
  mutate(space_not_interested =
    ifelse(space=="Not interested",1,0),
    space_moderately_interested =
    ifelse(space=="Moderately interested",1,0),
    space_very_interested =
    ifelse(space=="Very interested",1,0))

```

For each combination of `religion` and `science`, we can now summarize the means of each space binary variable (which represent the proportion of respondents in the related category of space interest):

```

space_summary <- review |>
  group_by(religion, science) |>
  summarize(not_interested =
    round(mean(space_not_interested, na.rm=TRUE),3),
    moderately_interested =
    round(mean(space_moderately_interested, na.rm=TRUE),3),
    very_interested =
    round(mean(space_very_interested, na.rm=TRUE),3))

```

## 'summarise()' has grouped output by 'religion'. You can override using the '.groups'

```
space_summary
```

```

## # A tibble: 28 x 5
## # Groups:   religion [7]
##   religion science not_interested moderately_interested very_interested

```

```
##      <fct>      <fct>      <dbl>      <dbl>      <dbl>
## 1 Protestant Hardly any      0.596      0.288      0.116
## 2 Protestant Only some      0.354      0.493      0.153
## 3 Protestant A great deal    0.207      0.474      0.319
## 4 Protestant <NA>           0.342      0.459      0.2
## 5 Catholic   Hardly any      0.585      0.264      0.151
## 6 Catholic   Only some      0.346      0.47       0.184
## 7 Catholic   A great deal    0.22       0.445      0.335
## 8 Catholic   <NA>           0.313      0.449      0.238
## 9 Jewish     Hardly any      0.5        0.5        0
## 10 Jewish    Only some      0.161      0.581      0.258
## # ... with 18 more rows
```

Those NAs for science and religion are annoying. One way to get rid of them is to filter them out. You can do that with an extra line in the chunk above. But we'll redo the whole chunk to compare them, though note it's not necessary to run this twice:

```
space_summary <- review |>
  filter(!is.na(science), !is.na(religion)) |>
  #Keep the observations that are not na for science or religion
  group_by(religion, science) |>
  summarise(not_interested = round(mean(space_not_interested,
                                       na.rm=TRUE),3),
            moderately_interested = round(mean(space_moderately_interested,
                                               na.rm=TRUE),3),
            very_interested = round(mean(space_very_interested,
                                         na.rm=TRUE),3))
```

## 'summarise()' has grouped output by 'religion'. You can override using the '.groups'

```
space_summary
```

```
## # A tibble: 18 x 5
## # Groups:   religion [6]
##   religion science not_interested moderately_interested very_interested
##   <fct>      <fct>      <dbl>      <dbl>      <dbl>
## 1 Protestant Hardly any      0.596      0.288      0.116
## 2 Protestant Only some      0.354      0.493      0.153
## 3 Protestant A great deal    0.207      0.474      0.319
## 4 Catholic   Hardly any      0.585      0.264      0.151
## 5 Catholic   Only some      0.346      0.47       0.184
## 6 Catholic   A great deal    0.22       0.445      0.335
## 7 Jewish     Hardly any      0.5        0.5        0
```

## 8 Jewish	Only some	0.161	0.581	0.258
## 9 Jewish	A great deal	0.167	0.633	0.2
## 10 Eastern	Hardly any	0.5	0	0.5
## 11 Eastern	Only some	0.2	0.4	0.4
## 12 Eastern	A great deal	0.2	0.333	0.467
## 13 Other	Hardly any	0.4	0.6	0
## 14 Other	Only some	0.472	0.321	0.208
## 15 Other	A great deal	0.184	0.469	0.347
## 16 None	Hardly any	0.455	0.242	0.303
## 17 None	Only some	0.352	0.496	0.152
## 18 None	A great deal	0.23	0.378	0.393

You can clean up the column names of this table and wrap it in `huxtable` before you knit. The new part of the code below is how to create a grouping row to use the “Interest in Space” header across the three levels of that variable. The idea is to first insert a new row, then merge it across columns 3:5, and finally assert that there are two rows (1:2) that should be treated as the table’s header.

```
huxtable(space_summary) |>
  insert_row("", "", "Interest in Space", "", "", after = 0) |>
  merge_cells(1, 3:5) |>
  set_header_rows(1:2, TRUE) |>
  set_contents(2, 1:5, c("Religion", "Confidence in Science",
                        "None", "Moderate", "Very")) |>
  set_align(everywhere, 3:5, "center") |>
  theme_compact()
```

## Dealing With NAs In Other Functions

For mean and standard deviation, remove NAs by adding `na.rm = TRUE`:

```
mean(review$age)
```

```
## [1] NA
```

```
mean(review$age, na.rm = TRUE)
```

```
## [1] 48.72003
```

Religion	Confidence in Science	Interest in Space		
		None	Moderate	Very
Protestant	Hardly any	0.596	0.288	0.116
Protestant	Only some	0.354	0.493	0.153
Protestant	A great deal	0.207	0.474	0.319
Catholic	Hardly any	0.585	0.264	0.151
Catholic	Only some	0.346	0.47	0.184
Catholic	A great deal	0.22	0.445	0.335
Jewish	Hardly any	0.5	0.5	0
Jewish	Only some	0.161	0.581	0.258
Jewish	A great deal	0.167	0.633	0.2
Eastern	Hardly any	0.5	0	0.5
Eastern	Only some	0.2	0.4	0.4
Eastern	A great deal	0.2	0.333	0.467
Other	Hardly any	0.4	0.6	0
Other	Only some	0.472	0.321	0.208
Other	A great deal	0.184	0.469	0.347
None	Hardly any	0.455	0.242	0.303
None	Only some	0.352	0.496	0.152
None	A great deal	0.23	0.378	0.393

```
sd(review$educ)
```

```
## [1] NA
```

```
sd(review$educ, na.rm = TRUE)
```

```
## [1] 3.05107
```

For correlation, restrict the estimation to cases with values for both variables by adding `use = "complete"`:

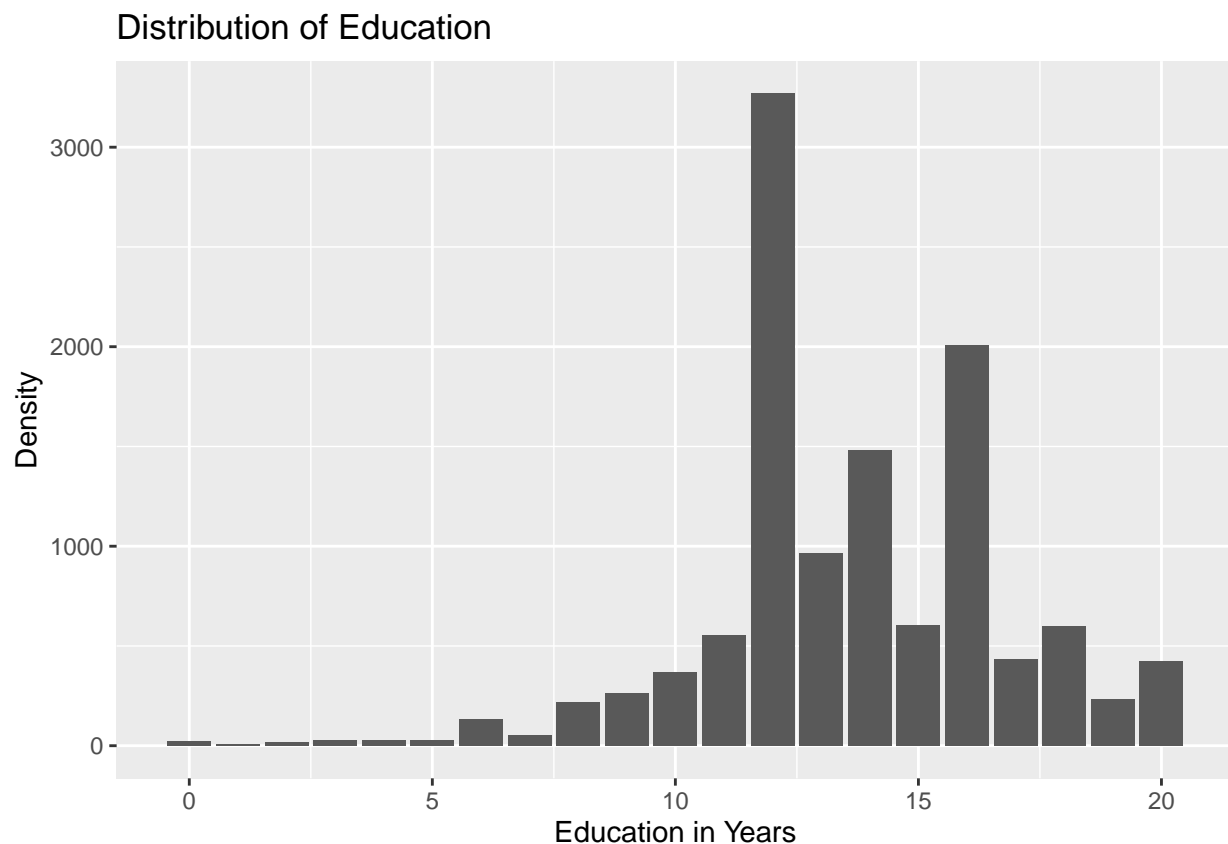
```
cor(review$age, review$educ, use = "complete")
```

```
## [1] -0.0319707
```

For ggplot, R knows to only use complete cases but will warn you that it is doing so. To drop the warning, add `warning = FALSE` to the start of the code chunk:

```
plot <- ggplot(review, aes(x = educ))
plot + geom_bar() +
  labs(x = "Education in Years",
       y = "Density",
       title = "Distribution of Education",
       subtitle = "General Social Survey, 2010-2018")
```

## Don't know how to automatically pick scale for object of type haven\_labelled. Default



Remember to change the axis labels and add a title to the figure above!

Basic linear models also know to drop NAs. The notes section of the summary informs you how many cases have been deleted from the estimates (in the example below, 6315 observations are deleted due to missingness).

*This is new: notice how we are redefining the space factor variable to have a numeric scale in the chunk below. Each of the three factor levels will be assigned a number from 1-3. Since we asserted that the order of levels is “Not at all interested” / “Moderately interested” / “Very interested”, now higher scores tell us that respondents are more interested in space. (This is a neat trick, but in general be careful with this approach. It only works if you can assume that the distance between each level is even.)*



```
model1 <- lm(as.numeric(space) ~ religion, data = review)
summary(model1)
```

```
##
## Call:
## lm(formula = as.numeric(space) ~ religion, data = review)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.23596 -0.88193  0.06037  0.11807  1.11807
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.88193    0.01384 135.940 < 2e-16 ***
## religionCatholic  0.05769    0.02208   2.613  0.00900 **
## religionJewish    0.19970    0.07544   2.647  0.00814 **
## religionEastern   0.35402    0.07904   4.479 7.65e-06 ***
## religionOther     0.03310    0.06094   0.543  0.58708
## religionNone      0.09317    0.03619   2.574  0.01007 *
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.7341 on 5450 degrees of freedom
## (6315 observations deleted due to missingness)
## Multiple R-squared:  0.005986, Adjusted R-squared:  0.005074
## F-statistic: 6.564 on 5 and 5450 DF, p-value: 4.254e-06
```

By default, the `fitted.values` function will not work if there are NAs in your model. If you have missing values in your model, it is better to use `fitted()` and add `na.action = na.exclude` to your `lm()` code. Now when you run the `fitted()` function any observations not included in your model will have NA as their predicted value.

```
model1 <- lm(as.numeric(space) ~ religion, data = review,
             na.action = na.exclude)

review$predicted_space <- fitted(model1)

summary(review$predicted_space)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.    NA's
##    1.882   1.882   1.882   1.920   1.940   2.236   6315
```

Let's add a model with a control variable and an interactive model.

```

model2 <- lm(as.numeric(space) ~ religion + science,
             data = review,
             na.action = na.exclude)

model3 <- lm(as.numeric(space) ~ religion * science,
             data = review,
             na.action = na.exclude)

```

Use huxreg to combine all three models into your final table:

```

huxreg(model1, model2, model3,
       statistics = c("Number of Observations" = "nobs"),
       coefs = c("(Intercept)" = "(Intercept)",
                  "Religion = Catholic" = "religionCatholic",
                  "Religion = Jewish" = "religionJewish",
                  "Religion = Eastern" = "religionEastern",
                  "Religion = Other" = "religionOther",
                  "Religion = None" = "religionNone",
                  "Science Confidence = Only Some" = "scienceOnly some",
                  "Science Confidence = A Great Deal" = "scienceA great deal",
                  "Catholic X Only Some" = "religionCatholic:scienceOnly some",
                  "Jewish X Only Some" = "religionJewish:scienceOnly some",
                  "Eastern X Only Some" = "religionEastern:scienceOnly some",
                  "Other X Only Some" = "religionOther:scienceOnly some",
                  "None X Only Some" = "religionNone:scienceOnly some",
                  "Catholic X A Great Deal" = "religionCatholic:scienceA great deal",
                  "Jewish X A Great Deal" = "religionJewish:scienceA great deal",
                  "Eastern X A Great Deal" = "religionEastern:scienceA great deal",
                  "Other X A Great Deal" = "religionOther:scienceA great deal",
                  "None X A Great Deal" = "religionNone:scienceA great deal")) |>
  set_caption("Add A Title Here") |>
  theme_compact()

```

# Using Markdown For Reports

## Hiding Code and Inline Code

Let's start with a case where your output is a single number, like a mean. Imagine you are working on the descriptives part of your project and want to include the mean of age. The place to start is with a regular code chunk with the `mean()` function:

```
mean(review$age, na.rm=TRUE)
```

```
## [1] 48.72003
```

But say you want R to run a code chunk and have only the output - not the code! - show up in your file. Simply add `echo = FALSE` to the first fence:

```
## [1] 48.72003
```

If you want to integrate a single number into your document, you can use inline code. Without opening a full code chunk, just use one backtick to open and close your fence. Then write a sentence as you normally would, and let R Markdown replace your code with the output:

The mean of age is 48.72.

## Other Options For Hiding Code

If you want to run the code chunk so you can see the output in your notebook but with neither the code nor the output showing up in your knitted file, use `include = FALSE`.

*I recommend starting with `include = FALSE` for your final project, so you can see all your output but then selectively choose what to include and what not to include in your knitted report.*

If for some reason you want to show the code but not the output, use `eval = FALSE`.

```
mean(review$age, na.rm=TRUE)
```

## R Markdown Tips

Some other things to know about writing in R Markdown...

Use hashtags for headings. One hashtag is for a big heading; additional hashtags shrink the size. For example:

# Biggest Heading

## Big Heading

### Small Heading

#### Smallest Heading

If you want to italicize text, *wrap it within single asterisks*. If you want to bold text, **wrap it within double asterisks**. And if you want to italicize *and* bold text, ***wrap it within triple asterisks***.

It can sometimes be helpful to highlight original variable names or unusual terms within tickmarks. But note this is similar to the inline code we saw earlier. As long as the word or phrase does not start with a single `r`, `R` will not try to run it as code. See the preview file for the difference in what these tickmarks represent:

The mean of `age` is 48.72.

To create an ordered list, leave an empty line and then:

- Start
- Each
- Item
- With
- A
- Dash

To create a numbered list, leave an empty line and then:

1. Start
2. Each
3. Item
4. With
5. A
6. Number and a period

To add a horizontal line rule, include at least three dashes on a single line:

---

And to add a page break:

This should be the start of a new page!

## It's Also The Start Of A New Section

### Formatting Summary Tables

We have seen `huxtable()` and `huxreg()` a lot. They are great. Use them.

Here's another example of how to use `huxtable()` in combination with `group_by()` and `summarize()` to make a nice summary table. Let's start with the code for getting means and standard deviations of the `age` and `educ` variables for each `religion` group:

```
summary_table <- review |>
  filter(!is.na(religion)) |>
  group_by(religion) |>
  summarize(mean_age = round(mean(age, na.rm=TRUE),2),
            sd_age = round(sd(age, na.rm=TRUE),2),
            mean_educ = round(mean(educ, na.rm=TRUE),2),
            sd_educ = round(sd(educ, na.rm=TRUE),2))
```

If we `huxtable` this table, we'll have the religion categories in the rows and the means and standard deviations in the columns:

```
huxtable(summary_table) |>
  insert_row("", "Age", "", "Education", "", after = 0) |>
  merge_cells(1, 2:3) |>
  merge_cells(1, 4:5) |>
  set_contents(2, 1:5, c("Religion", "Mean", "SD", "Mean", "SD")) |>
  set_header_rows(1:2, TRUE) |>
  set_caption("Summary Table: Age and Education by Religion") |>
  set_align(everywhere, 2:5, "center") |>
  theme_compact()
```

Note that `huxtable()` also works well with `t.test()` after asserting that the results should be in tidy format (by wrapping the `t.test()` function in `tidy()`)...

```
tidy(t.test(review$age[review$religion=="Jewish"],
            review$age[review$religion=="Eastern"])) |>
  huxtable() |>
  select(-c(method, parameter)) |> # Drop the method and parameter columns from the table
  set_caption("T Test: Difference in Mean Age between Jewish and Eastern Respondents") |>
  theme_compact()
```

```
...and prop.test()...
```

```
space_religion <- review |>
  filter(religion=="Protestant" | religion=="None") |>
  select(religion, space_very_interested) |>
  droplevels()

space_religion_table <- table(space_religion$religion,
                              space_religion$space_very_interested)

tidy((prop.test(space_religion_table))) |>
  huxtable() |>
  select(-c(method, parameter)) |>
  set_caption("Proportion Test: Protestant vs No Religion and Very Interested in Space")
  theme_compact()
```

```
...and chisq.test()...
```

```
tidy(chisq.test(review$sex, review$consci)) |>
  huxtable() |>
  select(-c(method, parameter)) |>
  set_caption("Chi-square Test: Sex and Confidence in Science") |>
  theme_compact()
```

```
...and fisher.test()...
```

```
educ_11_years_only <- review |>
  filter(educ==11) |>
  select(educ, religion, space)

chisq.test(educ_11_years_only$religion, educ_11_years_only$space)$expected
```

```
## Warning in chisq.test(educ_11_years_only$religion, educ_11_years_only$space):
## Chi-squared approximation may be incorrect
```

```
##                                educ_11_years_only$space
## educ_11_years_only$religion Not interested Moderately interested
##               Protestant    45.9183673          54.5918367
##               Catholic     30.4897959          36.2489796
##               Jewish        0.3673469           0.4367347
##               Eastern       0.3673469           0.4367347
##               Other         3.3061224           3.9306122
##               None          9.5510204          11.3551020
```

```
##                                educ_11_years_only$space
## educ_11_years_only$religion Very interested
##                                Protestant      24.4897959
##                                Catholic       16.2612245
##                                Jewish         0.1959184
##                                Eastern        0.1959184
##                                Other          1.7632653
##                                None           5.0938776
```

```
tidy(fisher.test(educ_11_years_only$religion, educ_11_years_only$space,
                 simulate.p.value = TRUE)) |>
```

```
  huxtable() |>
```

```
  select(-c(method)) |> # Just drop method here; fisher.test output does not include p
```

```
  set_caption("Fisher Test: Religion and Interest in Space") |>
```

```
  theme_compact()
```

Table 1: Add A Title Here

	(1)	(2)	(3)
(Intercept)	1.882 *** (0.014)	1.564 *** (0.047)	1.521 *** (0.059)
Religion = Catholic	0.058 ** (0.022)	0.025 (0.027)	0.045 (0.114)
Religion = Jewish	0.200 ** (0.075)	0.112 (0.092)	-0.021 (0.508)
Religion = Eastern	0.354 *** (0.079)	0.267 ** (0.101)	0.479 (0.508)
Religion = Other	0.033 (0.061)	-0.002 (0.071)	0.079 (0.324)
Religion = None	0.093 * (0.036)	0.061 (0.045)	0.328 * (0.138)
Science Confidence = Only Some		0.239 *** (0.049)	0.279 *** (0.064)
Science Confidence = A Great Deal		0.535 *** (0.050)	0.592 *** (0.065)
Catholic X Only Some			-0.007 (0.121)
Jewish X Only Some			0.318 (0.524)
Eastern X Only Some			-0.079 (0.533)
Other X Only Some			-0.143 (0.340)
None X Only Some			-0.327 * (0.153)
Catholic X A Great Deal			-0.044 (0.122)
Jewish X A Great Deal			-0.059 (0.525)
Eastern X A Great Deal			-0.325 (0.525)
Other X A Great Deal			-0.029 (0.341)
None X A Great Deal			-0.277 (0.153)
Number of Observations	5456	3377	3377

\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05.



Table 2: Summary Table: Age and Education by Religion

<b>Religion</b>	<b>Age</b>		<b>Education</b>	
	<b>Mean</b>	<b>SD</b>	<b>Mean</b>	<b>SD</b>
Protestant	51	17.9	13.7	2.81
Catholic	47.9	17.1	13.5	3.35
Jewish	56.2	18	16	2.67
Eastern	41.6	16.4	15.2	3.38
Other	38.4	15.4	13.4	2.68
None	41.6	16	13.6	3.07

Table 3: T Test: Difference in Mean Age between Jewish and Eastern Respondents

<b>estimate</b>	<b>estimate1</b>	<b>estimate2</b>	<b>statistic</b>	<b>p.value</b>	<b>conf.low</b>	<b>conf.high</b>	<b>alternative</b>
14.7	56.2	41.6	8.33	1.5e-15	11.2	18.1	two.sided

Table 4: Proportion Test: Protestant vs No Religion and Very Interested in Space

<b>estimate1</b>	<b>estimate2</b>	<b>statistic</b>	<b>p.value</b>	<b>conf.low</b>	<b>conf.high</b>	<b>alternative</b>
0.791	0.714	14	0.000186	0.0333	0.122	two.sided

Table 5: Chi-square  
Test: Sex and  
Confidence in  
Science

<b>statistic</b>	<b>p.value</b>
60.4	7.81e-14

Table 6: Fisher Test:  
Religion and Interest in  
Space

<b>p.value</b>	<b>alternative</b>
0.032	two.sided