# **Quarto Demo**

#### Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see https://quarto.org.

#### **Running Code**

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
1 + 1
```

[1] 2

You can add options to executable code like this

[1] 4

The echo: false option disables the printing of code (only output is displayed).

#### **UN Votes**

For the remainder of class, we are going to look at the voting history of countries in the United Nations General Assembly using data from package **unvotes** (and start getting familiar with R along the way).

```
library(tidyverse)
library(lubridate)
```

```
library(DT)
library(viridis)
library(unvotes)
```

#### Data

We will work with three data sets: un\_roll\_calls, un\_roll\_call\_issues, and un\_votes. Each data set contains a variable called rcid, the roll call id, which can be used to join the data sets with one another.

- The un\_votes data set provides information on the voting history of the United Nations General Assembly. It contains one row for each country/vote pair.

```
un_votes
```

# A tibble: 869,937 x 4										
	rcid	country	country_code	vote						
	<dbl></dbl>	<chr></chr>	<chr></chr>	<fct></fct>						
1	3	United States	US	yes						
2	3	Canada	CA	no						
3	3	Cuba	CU	yes						
4	3	Haiti	HT	yes						
5	3	Dominican Republic	DO	yes						
6	3	Mexico	MX	yes						
7	3	Guatemala	GT	yes						
8	3	Honduras	HN	yes						
9	3	El Salvador	SV	yes						
10	3	Nicaragua	NI	yes						
# with 869,927 more rows										

Create a new code chunk below and use the function *View* on the un\_votes data set. Run the code. You should see a new window pop it where you can clearly see the entire data set.

Create another new code chunk. Practice pulling out columns of the data set with the \$\mathscr{s}\$ sign. Pull out the *vote* column. In a seperate line of code, pull out *country\_code* 

The un\_roll\_calls data set contains information on each roll call vote of the United Nations General Assembly.

```
un_roll_calls
```

#### # A tibble: 6,202 x 9

	rcid	session	${\tt important} vote$	date	unres	amend	para	short	descr
	<int></int>	<dbl></dbl>	<int></int>	<date></date>	<chr></chr>	<int></int>	<int></int>	<chr></chr>	<chr></chr>
1	3	1	0	1946-01-01	R/1/66	1	0	AMENDMENTS,~	"TO ~
2	4	1	0	1946-01-02	R/1/79	0	0	SECURITY CO~	"TO ~
3	5	1	0	1946-01-04	R/1/98	0	0	VOTING PROC~	"TO ~
4	6	1	0	1946-01-04	R/1/107	0	0	DECLARATION~	"TO ~
5	7	1	0	1946-01-02	R/1/295	1	0	GENERAL ASS~	"TO ~
6	8	1	0	1946-01-05	R/1/297	1	0	ECOSOC POWE~	"TO ~
7	9	1	0	1946-02-05	R/1/329	0	0	POST-WAR RE~	"TO ~
8	10	1	0	1946-02-05	R/1/361	1	1	U.N. MEMBER~	"TO ~
9	11	1	0	1946-02-05	R/1/376	0	0	${\tt TRUSTEESHIP~}$	"TO ~
10	12	1	0	1946-02-06	R/1/394	1	1	COUNCIL MEM~	"TO ~

# ... with 6,192 more rows

The un\_roll\_call\_issues data set contains issue classifications of roll call votes of the United Nations General Assembly. There are many votes that have no issue classification, and some are classified under more than one issue.

#### un\_roll\_call\_issues

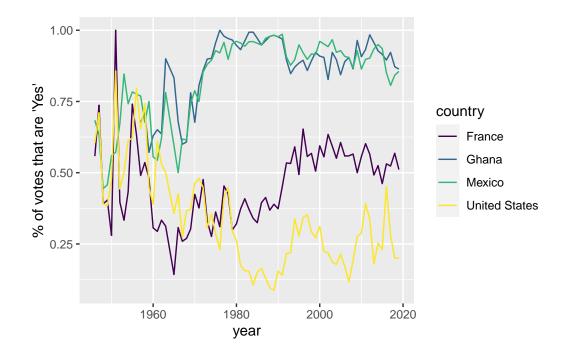
```
# A tibble: 5,745 x 3
    rcid short_name issue
   <int> <chr>
                    <fct>
      77 me
 1
                    Palestinian conflict
2
   9001 me
                    Palestinian conflict
   9002 me
                    Palestinian conflict
   9003 me
                    Palestinian conflict
5
   9004 me
                    Palestinian conflict
6
   9005 me
                    Palestinian conflict
7
   9006 me
                    Palestinian conflict
8
     128 me
                    Palestinian conflict
9
     129 me
                    Palestinian conflict
10
     130 me
                    Palestinian conflict
# ... with 5,735 more rows
```

### **Analysis**

#### Part 1

We begin by looking at how often each country voted "yes" on a resolution in each year. How could we visualize the percentage of yes's for the US, Ghana, Mexico, and France?

The goal of this exercise is NOT for you to learn every function perfectly. We are training are braing to think critically about code.

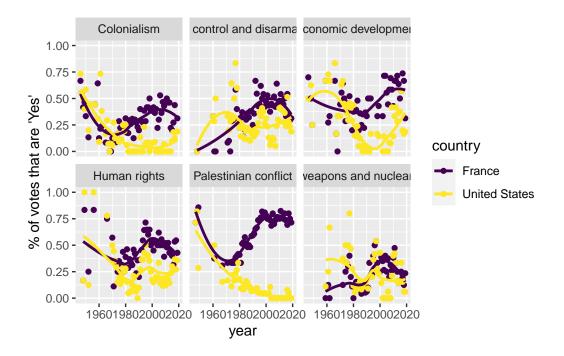


Consider the plot from Part 1. Describe how the voting behaviors of the four countries have changed over time.

What are you left wondering? What other questions could we ask?

#### Part 2

Let's take a look at how voting records have changed for each issue.



## **Discussion Questions**

- 2. Consider the plot from Part 2.
- On which issues have the two countries voted most similarly over time?
- On which issues have they voted most differently over time?