

# HOW TO SAVE HOURS OF PARAMETERIZED QUARTO

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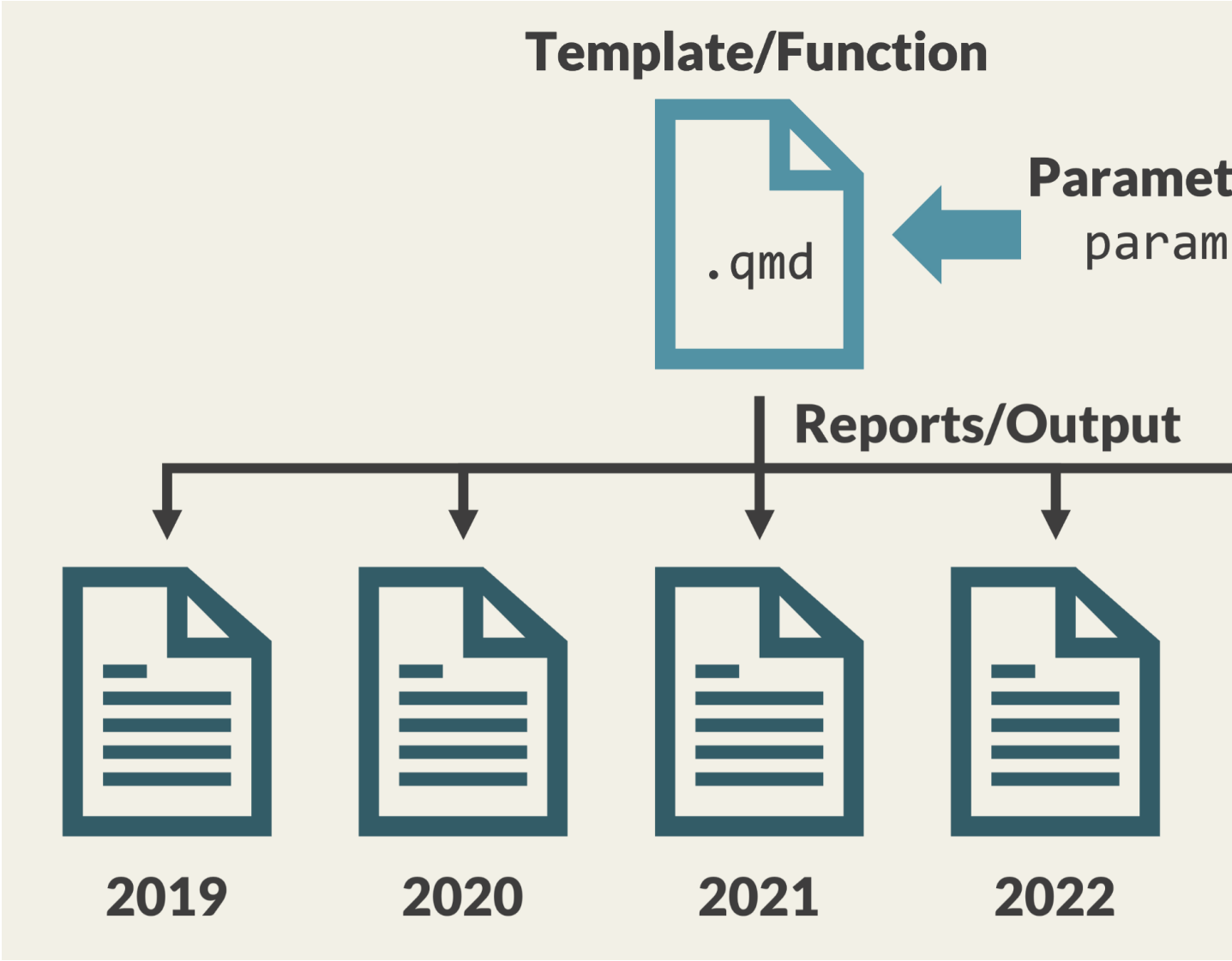
## BIO

- Economist by trade, R programmer at h
- First learned about Quarto at Posit Cor

# PROBLEM

- You need to collect a subset of data to a over and over again

# SOLUTION



# YET ANOTHER MARKDOWN LANGUAGE (YAML)

```
---
title: "Analysis of US unemployment rates"
format: html
params:
data
  bls_series_id: !expr c("LNS14000012", "LNS14000036")
  start_year: 2020
  end_year: 2024
---
```

# WHICH TURNS AN API CALL FROM THIS

```
1 library(blsR)
2
3 unemp <- get_n_series_table(
4   list('LNS14000012', 'LNS14000036'),
5   start_year = 2020,
6   end_year = 2024,
7   tidy = TRUE,
8   api_key = keyring::key_get("BLS")
9 )
```

# TO THIS

```
1 unemp <- get_n_series_table(  
2   list(params$bls_series_id[1], params$bls_series_  
3   start_year = params$start_year,  
4   end_year = params$end_year,  
5   tidy = TRUE,  
6   api_key = keyring::key_get("BLS")  
7 )
```

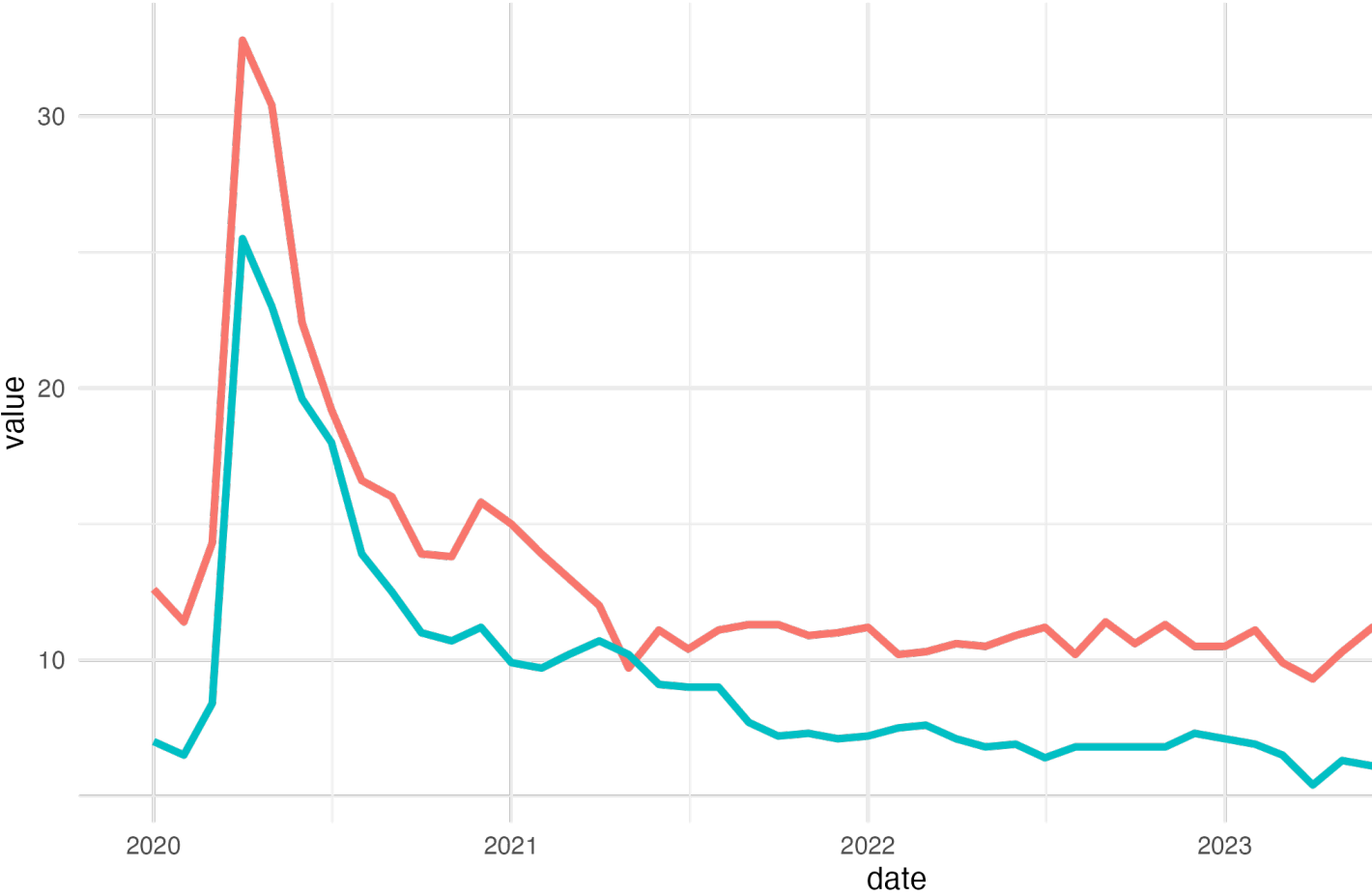
# MAKING YOUR GGPLOT CODE LOOK LIKE 'T

```
1 library(tidyverse)
2
3 unemp |>
4   pivot_longer(starts_with("L"), names_to = "series")
5   mutate(date = lubridate::make_date(year, month))
6   ggplot(aes(date, value, color = series)) +
7     geom_line(linewidth = 1.25) +
8     theme_minimal() +
9     labs(
10       title = glue::glue("Unemployment rate for {params$chart_names[1]}
11                          {params$chart_names[2]} year")
12     )
1
1 ggsave(here::here("figures", glue::glue("unemployment_{params$chart_names[1]}_{params$chart_names[2]}_year.png")), plot)
```



VOILA!

Unemployment rate for 16-19 and 20-24 years old



**LETS TRY THIS LIVE**

# GIVING CREDIT TO WHERE ITS DUE

- [How to use Quarto for Parameterized R](#)
- [Tips for Custom Parameterized PDFS in](#)
- [Parameterized Quarto reports improve soil health](#)