

## Introduction

A simple function from the [uspols](#) package – dubbed `uspols_wiki_timeline()` – that scrapes Wikipedia’s [Timeline of the Donald Trump presidency](#). Facilitating, among other things, the ability to hover over data points in a time series to see what the President was up to **on any given day** over the course of the last four years.

```
library(tidyverse)
library(devtools)
devtools::install_github("jaytimm/uspols")
library(uspols)
```

A simple call to the function returns a table of the president's daily happenings via Wikipedia – from 20 January 2017 to the most recent update. This is clearly not an official accounting, and Wikipedia is not gospel. **But a super quick/easy way to get one's bearings (in a maelstrom) and contextualize data points.**

```
longs <- uspol$::uspol$ wiki timeline()
```

**Table structure is detailed some below.** The folks at Wikipedia have delineated events (chronologically?) via bullet points per each day of Trump's presidency, which have been enumerated here in the `bullets` column as independent rows. I have mostly done this to make text easier to read/access/etc. I am not sure how meaningful event distinctions (for a given day) actually are.

```
longs %>%
  select(-quarter:-daypres, -dow) %>%
  head() %>%
  DT::datatable(rownames = FALSE,
                 options = list(dom = 't',
                                pageLength = 6,
                                scrollX = TRUE))
```

\n \n

```

Events</th>\n </tr>\n </thead>\n</table>","options":
{"dom":"t","pageLength":6,"scrollX":true,"columnDefs":
date</th>\n bullet</th>\n [{"className":"dt-right","targets":1}],"order":[
],"autoWidth":false,"orderClasses":false,"lengthMenu":
[6,10,25,50,100]},"evals":[],"jsHooks":[]}
```

$\ln$

## A simple use-case

```
summary <- longs %>%
  filter(!is.na(Events)) %>%
  mutate(tokens = tokenizers::count_words(Events)) %>%
  group_by(date) %>%
  mutate(daily_count = sum(tokens)) %>%
  slice(1) %>%
  ungroup()
```

For demonstration, we calculate total word counts of event descriptions per day from the time-

line table. The plot below, then, summarizes these daily counts since inauguration. The plot itself is fairly meaningless, but the hover-action should be useful. For clarity purposes, only the first event for each day is included in the pop-up,.

```
dp <- summary %>%
  mutate(text = stringr::str_wrap(string = Events,
                                   width = 20,
                                   indent = 1,
                                   exdent = 1)) %>%

  plotly::plot_ly(x = ~date,
                  y = ~daily_count,
                  text = ~text,
                  type = 'scatter',
                  mode = 'lines') %>%

  plotly::layout(#atitle = "Top 10 Drug Types",
                 tooltip = c('Events'),
                 yaxis = list (title = "Daily event word count per
Wikipedia"))
```