Temperatura da Proposição por Temas

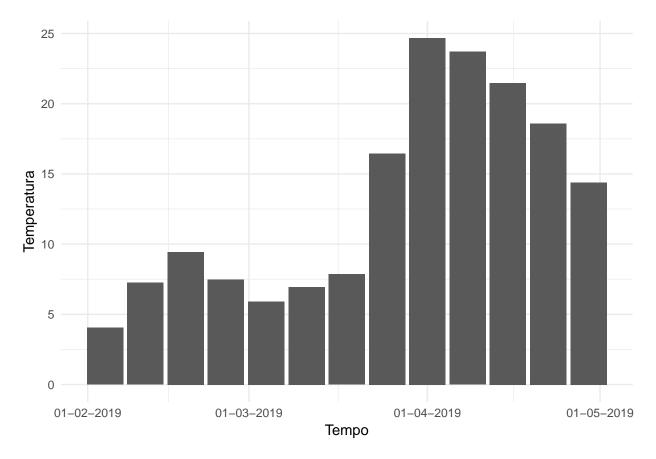
Neste relatório, faremos uma análise histórica da Temperatura das proposições agregadas por tema ao longo dos anos.

```
library(dplyr)
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(magrittr)
temperatura_props <- readr::read_csv('/local/tarciso/workspace/leggoR/data/hists_temperatura.csv')</pre>
## Parsed with column specification:
## cols(
##
     id_ext = col_double(),
##
     casa = col_character(),
     periodo = col_datetime(format = ""),
##
##
     temperatura_periodo = col_double(),
##
     temperatura recente = col double()
## )
props <- readr::read csv('/local/tarciso/workspace/leggoR/data/tabela geral ids casa.csv')</pre>
## Parsed with column specification:
## cols(
##
     id_camara = col_double(),
##
     id_senado = col_double(),
##
     apelido = col_character(),
     tema = col_character()
## )
temas_props_camara <- props %>% select(id_camara, tema) %>% rename(id_ext = id_camara)
temas_props_senado <- props %>% select(id_senado, tema) %>% rename(id_ext = id_senado)
temas_props <- bind_rows(temas_props_camara,temas_props_senado) %>% filter(!is.na(id_ext))
temperatura_props_temas <- inner_join(temperatura_props,temas_props,by = "id_ext") %>%
  tidyr::separate_rows(tema,sep=';')
temperatura_temas <- temperatura_props_temas %>%
  mutate(semana = lubridate::floor_date(periodo, "weeks") + lubridate::days(1),
```

Vamos analisar graficamente a evolução da temperatura por tema, começando pelo ano 2019. Primeiramente, uma análise geral, com a temperatura média por semana.

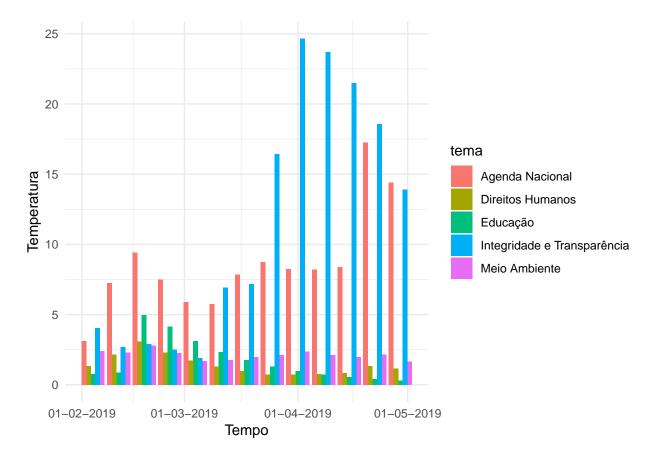
```
library(ggplot2)

temperatura_temas %>%
    dplyr::filter(ano == 2019) %>%
    ggplot2::ggplot(ggplot2::aes(x=as.Date(semana), y=median_temp)) +
    ggplot2::geom_col(position="dodge") +
    ggplot2::xlab("Tempo") +
    ggplot2::ylab("Temperatura") +
    ggplot2::scale_x_date(date_labels = "%d-%m-%Y") +
    ggplot2::theme_minimal()
```



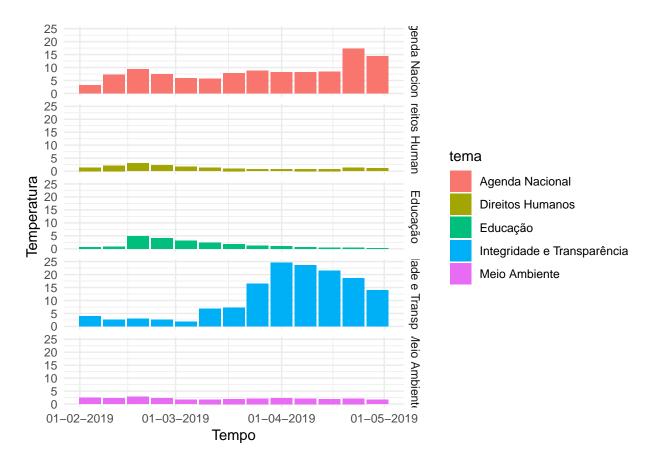
Agora mostrando todos os temas.

```
temperatura_temas %>%
  dplyr::filter(semana >= lubridate::ymd('2019-01-01')) %>%
  ggplot2::ggplot(ggplot2::aes(x=as.Date(semana), y=median_temp, fill=tema)) +
  ggplot2::geom_col(position="dodge") +
  ggplot2::xlab("Tempo") +
  ggplot2::ylab("Temperatura") +
  ggplot2::scale_x_date(date_labels = "%d-%m-%Y") +
  ggplot2::theme_minimal()
```



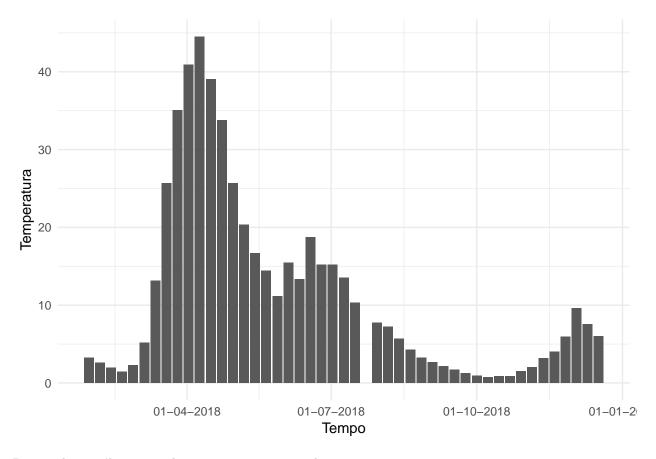
Por fim, quebrando por tema.

```
temperatura_temas %>%
  dplyr::filter(ano == 2019) %>%
  ggplot2::ggplot(ggplot2::aes(x=as.Date(semana), y=median_temp, fill=tema)) +
  #ggplot2::geom_smooth(span = .05, se = F) +
  ggplot2::geom_bar(stat="identity", position="dodge") +
  #ggplot2::geom_point() +
  ggplot2::xlab("Tempo") +
  ggplot2::ylab("Temperatura") +
  ggplot2::theme_minimal() +
  ggplot2::scale_x_date(date_labels = "%d-%m-%Y") +
  ggplot2::facet_grid(rows = vars(tema))
```



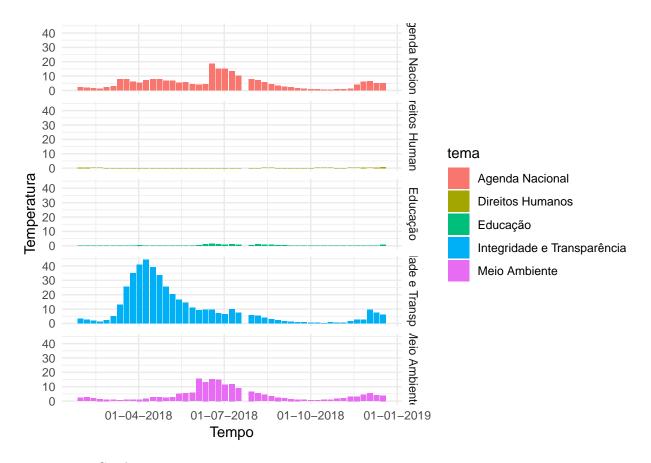
Temperatura Geral em 2018.

```
temperatura_temas %>%
  dplyr::filter(ano == 2018) %>%
  ggplot2::ggplot(ggplot2::aes(x=as.Date(semana), y=median_temp)) +
  ggplot2::geom_col(position="dodge") +
  ggplot2::xlab("Tempo") +
  ggplot2::ylab("Temperatura") +
  ggplot2::scale_x_date(date_labels = "%d-%m-%Y") +
  ggplot2::theme_minimal()
```



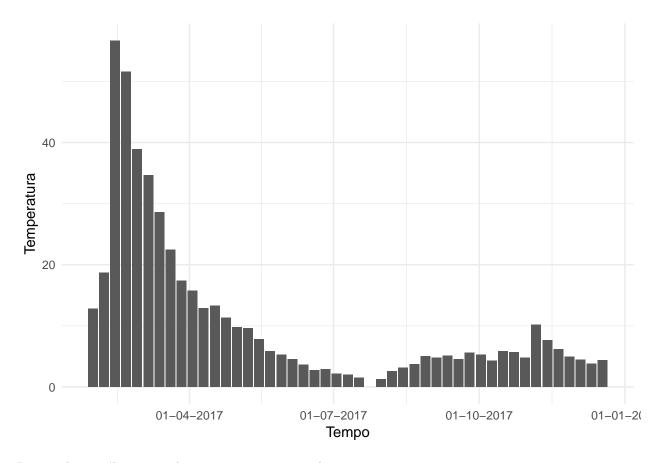
Repetindo a análise separada por tema para o ano de 2018.

```
temperatura_temas %>%
  dplyr::filter(ano == 2018) %>%
  ggplot2::ggplot(ggplot2::aes(x=as.Date(semana), y=median_temp, fill=tema)) +
  #ggplot2::geom_smooth(span = .05, se = F) +
  ggplot2::geom_bar(stat="identity", position="dodge") +
  #ggplot2::geom_point() +
  ggplot2::xlab("Tempo") +
  ggplot2::ylab("Temperatura") +
  ggplot2::theme_minimal() +
  ggplot2::scale_x_date(date_labels = "%d-%m-%Y") +
  ggplot2::facet_grid(rows = vars(tema))
```



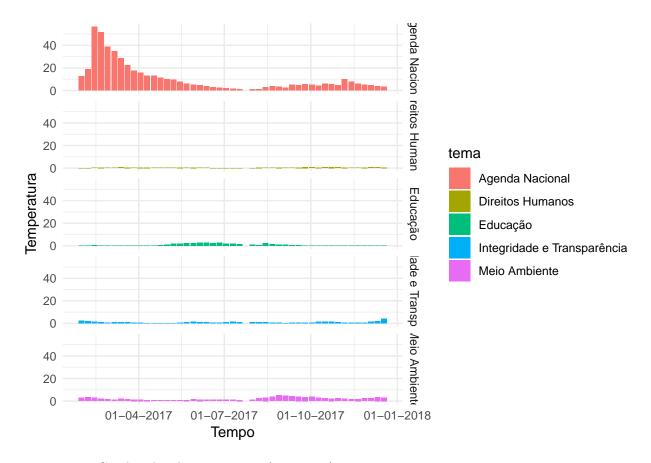
Temperatura Geral em 2017.

```
temperatura_temas %>%
  dplyr::filter(ano == 2017) %>%
  ggplot2::ggplot(ggplot2::aes(x=as.Date(semana), y=median_temp)) +
  ggplot2::geom_col(position="dodge") +
  ggplot2::xlab("Tempo") +
  ggplot2::ylab("Temperatura") +
  ggplot2::scale_x_date(date_labels = "%d-%m-%Y") +
  ggplot2::theme_minimal()
```



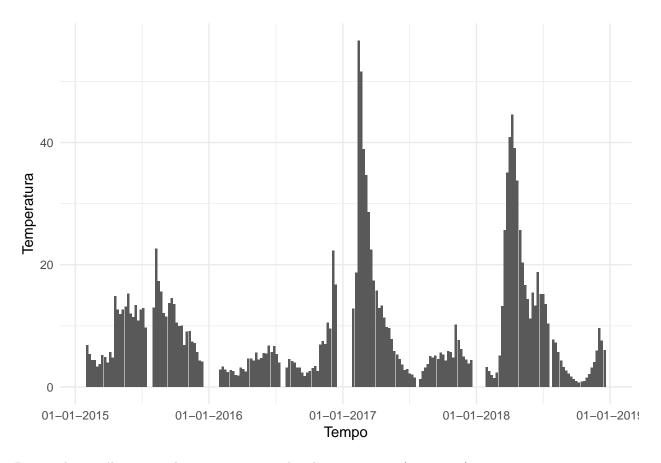
Repetindo a análise separada por tema para o ano de 2017.

```
temperatura_temas %>%
  dplyr::filter(ano == 2017) %>%
  ggplot2::ggplot(ggplot2::aes(x=as.Date(semana), y=median_temp, fill=tema)) +
  #ggplot2::geom_smooth(span = .05, se = F) +
  ggplot2::geom_bar(stat="identity", position="dodge") +
  #ggplot2::geom_point() +
  ggplot2::xlab("Tempo") +
  ggplot2::ylab("Temperatura") +
  ggplot2::theme_minimal() +
  ggplot2::scale_x_date(date_labels = "%d-%m-%Y") +
  ggplot2::facet_grid(rows = vars(tema))
```



Temperatura Geral na legislatura anterior (2015-2017).

```
temperatura_temas %>%
  dplyr::filter((ano >= 2015) && (ano <= 2018)) %>%
  ggplot2::ggplot(ggplot2::aes(x=as.Date(semana), y=median_temp)) +
  ggplot2::geom_col(position="dodge") +
  ggplot2::xlab("Tempo") +
  ggplot2::ylab("Temperatura") +
  ggplot2::scale_x_date(date_labels = "%d-%m-%Y") +
  ggplot2::theme_minimal()
```



Repetindo a análise separada por tema para a legislatura anterior (2015-2017).

```
temperatura_temas %>%
  dplyr::filter((ano >= 2015) && (ano <= 2018)) %>%
  ggplot2::ggplot(ggplot2::aes(x=as.Date(semana), y=median_temp, fill=tema)) +
  #ggplot2::geom_smooth(span = .05, se = F) +
  ggplot2::geom_bar(stat="identity", position="dodge") +
  #ggplot2::geom_point() +
  ggplot2::xlab("Tempo") +
  ggplot2::ylab("Temperatura") +
  ggplot2::theme_minimal() +
  ggplot2::scale_x_date(date_labels = "%d-%m-%Y") +
  ggplot2::facet_grid(rows = vars(tema))
```

