

# Trabajo Final R para el análisis cualitativo

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En el presente trabajo se analiza el diario de sesión del senado del 13/04/2021 cuando la cámara trató temas relativos a la pandemia y a la creación de impuestos para el Fondo Covid. Los senadores esgrimieron argumentos a favor y en contra de impuestos transitorios a funcionarios públicos, depósitos en el exterior y a privados; los cuales serán analizados a continuación.

- 1) La fuente de datos es el scrapeo del diario de sesión parlamentaria que realizamos mediante el paquete `speech()`. En adición, le pegaremos las etiquetas partidarias mediante el paquete `puy()`.

```
library(remotes)
library(puy)
library(speech)
```

```
sesion <- speech_build(file = "C:/Users/Alonso/Desktop/R para el analisis
cualitativo/diario_sesion.pdf", compiler = T)
sesion = puy::add_party(sesion)
```

A continuación utilizaremos el paquete `quanteda` para poder limpiar los datos, organizarlos en un `dfm` y poder realizar minería de texto. Lo haremos para todo el diario de sesión.

```
library(quanteda)

## Warning in .recacheSubclasses(def@className, def, env): undefined subc
lass
## "unpackedMatrix" of class "mMatrix"; definition not updated

## Warning in .recacheSubclasses(def@className, def, env): undefined subc
lass
## "packedMatrix" of class "mMatrix"; definition not updated

## Warning in .recacheSubclasses(def@className, def, env): undefined subc
lass
## "unpackedMatrix" of class "replValueSp"; definition not updated

## Warning in .recacheSubclasses(def@className, def, env): undefined subc
lass
## "packedMatrix" of class "replValueSp"; definition not updated
```

```

## Package version: 3.2.3
## Unicode version: 13.0
## ICU version: 69.1

## Parallel computing: 4 of 4 threads used.

## See https://quanteda.io for tutorials and examples.

library(readtext)
library(stringr)
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(ggplot2)
library(quanteda.textstats)

## Warning in .recacheSubclasses(def@className, def, env): undefined subc
lass
## "unpackedMatrix" of class "mMatrix"; definition not updated

## Warning in .recacheSubclasses(def@className, def, env): undefined subc
lass
## "packedMatrix" of class "mMatrix"; definition not updated

## Warning in .recacheSubclasses(def@className, def, env): undefined subc
lass
## "unpackedMatrix" of class "replValueSp"; definition not updated

## Warning in .recacheSubclasses(def@className, def, env): undefined subc
lass
## "packedMatrix" of class "replValueSp"; definition not updated

library(quanteda.textplots)
library(dplyr)

dfm_sesion <- dfm(tokens(sesion$speech,
                        remove_punct = TRUE,
                        remove_numbers = TRUE),
                  tolower=TRUE,
                  verbose = FALSE) %>%
  quanteda::dfm_remove (pattern = c(quanteda::stopwords("spanish"), "seño*)

```

```
"", "presidente"), min_nchar=3)%>%
  quanteda::dfm_trim(min_termfreq = 4)%>%
  quanteda::dfm_group(groups = sesion$party)
```

```
View(as.data.frame(dfm_sesion))
```

```
## Warning: 'as.data.frame.dfm' is deprecated.
## Use 'convert(x, to = "data.frame")' instead.
## See help("Deprecated")
```

A continuación realizaremos alguna técnicas de minería de texto para familiarizarnos con el documento. Primero crearemos un diccionario para poder clasificar temáticamente el texto y en segundo lugar exploraremos la asociación de palabras poniendo el foco en la palabra “impuesto”

```
midic <- dictionary(list(impuestos = c("contribución", "ayuda", "depósitos",
  "funcionarios públicos", "impuesto*", "impositivo", "redistribución", "tributo*", "tienen más"),
  salud=c("pandemia", "covid19", "sistema de salud", "vacuna*", "médicos", "personal de salud", "muertos", "enfermo*")))
```

```
midic_sesion<-dfm_lookup(dfm_sesion, dictionary=midic, nomatch="no aparece")
midic_sesion_=convert(midic_sesion, to = "data.frame")
View(midic_sesion_)
```

El diccionario nos permite observar que impuestos es una temática más relevante que salud en la sesión y que la magnitud de las intervenciones del Frente Amplio y del Partido Nacional fueron similares.

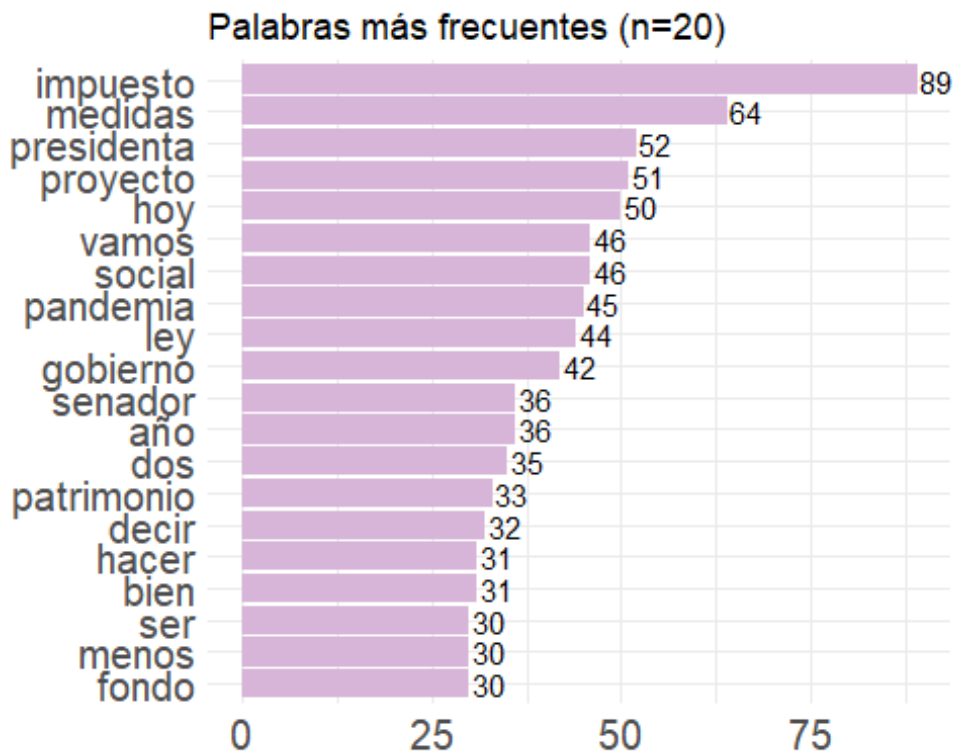
A continuación vamos a visualizar las 20 palabras mencionadas con mayor frecuencia asitiendonos con un gráfico:

```
top = data.frame(topfeatures(dfm_sesion, 20))

top$palabra = rownames(top)

topplot = top[1:20, ] %>%
  ggplot(aes(x = reorder(palabra, topfeatures.dfm_sesion..20.),
    y = topfeatures.dfm_sesion..20., fill = palabra)) +
  geom_col(show.legend = FALSE) +
  coord_flip() +
  geom_text(aes(hjust = -0.1, label = topfeatures.dfm_sesion..20.)) +
  theme_minimal() +
  theme(axis.title.y = element_blank(), axis.title.x = element_blank(),
    axis.text = element_text(size = 15)) +
  ggtitle("Palabras más frecuentes (n=20)") +
  scale_fill_manual(values = c(rep("#D7B5D8", 20)))
```

topplot



Se observa que efectivamente la palabra “impuesto” es la más mencionada. También podemos intuir que el factor “patrimonio” estuvo sobre la mesa en la discusión.

A continuación haremos una segunda visualización con una nube de las palabras más mencionadas agrupadas por partido:

```
quanteda.textplots::textplot_wordcloud(dfm_sesion, min.count = 10, max_words = 200,
                                         random.order = FALSE, colors = RColorBrewer::brewer.pal(8, "Dark2"), comparison = T)

## Warning: colorsrandom.order is deprecated; use colorrandom_order instead

## Warning in text.default(x1, y1, word[i], cex = (1 + adjust) * size[i], offset =
## 0, : "min.count" is not a graphical parameter

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```

[illegible]

[illegible]

```
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## supuesto could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## cantidad could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## aporte could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## reducir could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## pandemia could not be fit on page. It will not be plotted.

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words, :
## después could not be fit on page. It will not be plotted.

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words, :  
## proyectos could not be fit on page. It will not be plotted.  
  
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offset =  
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```



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words, :
## haremos could not be fit on page. It will not be plotted.

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words, :
## queríamos could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## próxima could not be fit on page. It will not be plotted.

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## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## contestar could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## convencidos could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## dispuestos could not be fit on page. It will not be plotted.
```

```
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## analizando could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## principal could not be fit on page. It will not be plotted.

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words, :
## hablemos could not be fit on page. It will not be plotted.

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## 0, : "min.count" is not a graphical parameter

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words, :
## colaborar could not be fit on page. It will not be plotted.

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words, :
## actividades could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## pasando could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## aporten could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## pase could not be fit on page. It will not be plotted.

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## 0, : "min.count" is not a graphical parameter

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## económicos could not be fit on page. It will not be plotted.
```

```
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## hicimos could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## cuatro could not be fit on page. It will not be plotted.

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words, :
## proceso could not be fit on page. It will not be plotted.

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words, :
## esfuerzo could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## duele could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## colorado could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## hacerlo could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## bueno could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## parlamento could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## vaya could not be fit on page. It will not be plotted.
```

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```
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## necesita could not be fit on page. It will not be plotted.

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words, :
## coalición could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## puntos could not be fit on page. It will not be plotted.

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words, :
## buen could not be fit on page. It will not be plotted.

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words, :
## mejor could not be fit on page. It will not be plotted.

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## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## oposición could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## marzo could not be fit on page. It will not be plotted.

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words, :
## viene could not be fit on page. It will not be plotted.
```

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## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_  
words, :  
## hablando could not be fit on page. It will not be plotted.  
  
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_  
words, :  
## tema could not be fit on page. It will not be plotted.  
  
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words, :  
## veces could not be fit on page. It will not be plotted.  
  
## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_  
words, :  
## comisión could not be fit on page. It will not be plotted.  
  
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words, :  
## acuerdo could not be fit on page. It will not be plotted.  
  
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## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_  
words, :  
## entendemos could not be fit on page. It will not be plotted.
```



```
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words, :
## presidenta could not be fit on page. It will not be plotted.

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## 0, : "min.count" is not a graphical parameter

## Warning in text.default(x1, y1, word[i], cex = (1 + adjust) * size[i],
offset =
## 0, : "min.count" is not a graphical parameter

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## debate could not be fit on page. It will not be plotted.

## Warning in wordcloud_comparison(x, min_size, max_size, min_count, max_
words, :
## política could not be fit on page. It will not be plotted.

## Warning in text.default(x1, y1, word[i], cex = (1 + adjust) * size[i],
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## 0, : "min.count" is not a graphical parameter
```

[illegible]

[illegible]



Se observa las distintas categorías que utiliza cada partido para poner el foco en los sujetos: “personas” o “gente” (PN), trabajadores (FA), compatriotas (PC). También se observa que en el FA hay una apelación a “medidas”, “crisis” y “pobreza”, por ejemplo, mientras que en el PC hay apelaciones a los “uruguayos”, al “ejecutivo” y a nociones de tiempo, mientras que en el PN hay apelaciones a “impuesto”, “funcionarios” (da indicio de que fue el partido que propuso el impuesto a los funcionarios públicos) y “personas”.

A continuación vamos a realizar una codificación manual de un segmento de la sesión donde se discutió el tema impositivo. Utilizaremos el paquete RQDA() por lo que copiamos y pegamos el segmento en cuestión en los archivos txt sesión y sesión2 que luego ingresaremos como files en el paquete.

```
library(RQDA)

## Loading required package: RSQLite

## Loading required package: gWidgets2RGtk2

## Loading required package: memoise

## Loading required package: RGtk2

## Loading required package: gWidgets2

## Loading required package: digest

## Loading required package: DBI
```

```
## Loading required package: stringi
RQDA()

tabla_cods=getCodingTable()

## Open a project first.
tabla=RQDA::getCodingTable()

## Open a project first.
```

Le pegamos las citas a la tabla y tendremos como producto final datos textuales tabulados con los argumentos a favor y en contra de los impuestos propuestos.

```
out = vector("list", length = max(tabla$cid))

for(i in 1:max(tabla$cid)) {
  out[[i]] <- rbind(RQDA::getCodingsByOne(i) )
}

data = do.call(rbind, out)
```