

HW12

```
library(httr)
library(jsonlite)

get_mundo <- function(keyword)
{
  API_key <- "501b411ccf59478ea66c21403e4ffda0"

  base <- "https://newsapi.org/v2/everything?"
  newspaper <- "domains=elmundo.es"

  url <- paste(base, newspaper, "&q=", keyword, "&apiKey=", API_key, sep="")

  x <- httr::GET(url=url)
  x <- jsonlite::fromJSON(rawToChar(x$content))
  return(x)
}

chile <- get_mundo("Chile")

get_title <- function(keyword, article_number)
{
  keyword <- get_mundo(keyword)
  #names: status, totalResults, articles
  art <- keyword$articles #this is a df of 20 articles
  #content <- chile_art$content
  titles <- art$title
  title_ex <- titles[article_number]
  return(title_ex)
}

x <- get_title("Chile", 4)

translate <- function(x)
{
  API_key <- "AIzaSyAOgVWOMYEOP5gQynXtYNO1DdDU7lMFDA"

  text <- x
  source <- "es"
  target <- "en"

  body <- paste("{",
    "'q':", text, "'",
    "'source':", source, "'",
    "'target':", target, "'",
    "'format':'text'",
    "}", sep="")

  base <- "https://translation.googleapis.com/language/translate/v2?key="
  url <- paste(base, API_key, sep="")

  x <- httr::POST(url, body = body)
  x <- jsonlite::fromJSON(rawToChar(x$content))
  out <- x$data$translations$translatedText
  return(out)
```

```
}

text <- translate(x)

convert_mp3 <- function(text)
{
  API_key_G <- "AIzaSyAOgVWOMYEpOP5gQynXtYN01DdDU71MFDA"

  input <- paste("'input':{'text':'", text, "'}", sep="")
  voice <- "'voice':{'languageCode':'en-US','name':'en-US-Standard-C', 'ssmlGender':'FEMALE'}"
  output <- "'audioConfig':{'audioEncoding':'MP3'}"

  s_body <- paste("{", input, ",", voice, ",", output, "}", sep="")

  base_url <- "https://texttospeech.googleapis.com/v1/text:synthesize?key="
  url <- paste(base_url, API_key_G, sep="")

  x <- httr::POST(url, body = s_body)
  x <- jsonlite::fromJSON(rawToChar(x$content))
  Sys.setenv(output_string=x$audioContent)
  system("echo $output_string > sound_out2.txt")

  system("base64 --decode sound_out2.txt > sound_out2.mp3")
}
#knitr::opts_chunk$set(echo = TRUE)
```

Output

get_title("Chile",4) [1] "Las primeras lluvias en 500 años fulminan a los microbios del desierto más árido"

translate(x) [1] "The first rains in 500 years fulminate the microbes of the driest desert"