

R Notebook

```
library(httr)
library(xml2)
library(purrr)
library(tibble)
library(data.table)

client_id <- Sys.getenv("GENIUS_CLIENT_ID")
access_token <- Sys.getenv("GENIUS_ACCESS_TOKEN")

columns <- c("id", "type", "full_title", "title", "title_with_featured", "artist", "primary_artist_id",
             "unreviewed_annotations", "hot", "page_views", "lyrics_owner", "lyrics_state", "pyongs_count",
             "image", "song_art_thumbnail", "song_art")
parse_hit <- function(hit) {
  return(
    c(
      hit$result$id,
      hit$type,
      hit$result$full_title,
      hit$result$title,
      hit$result$title_with_featured,
      hit$result$artist_names,
      hit$result$primary_artist$id,
      hit$result$annotation_count,
      hit$result$stats$unreviewed_annotations,
      hit$result$stats$hot,
      hit$result$stats$pageviews,
      hit$result$lyrics_owner_id,
      hit$result$lyrics_state,
      hit$result$pyongs_count,
      hit$result$url,
      hit$result$header_image_thumbnail_url,
      hit$result$header_image_url,
      hit$result$song_art_image_thumbnail_url,
      hit$result$song_art_image_url
    )
  )
}

get_search_page <- function(query, page) {
  response <- httr::GET(url="https://api.genius.com/search",
    add_headers(c("Authorization" = glue::glue("Bearer {access_token}")),
      client_id=client_id,
      response_type="code",
      query=list(q=query, per_page=20, page=page)
    )
  )
  return(content(response, "parsed")$response$hits)
```

```

}

search <- function(query) {
  page <- 0
  hits <- get_search_page(query, page)
  while(TRUE) {
    page <- page + 1
    new_hits <- get_search_page(query, page)
    if(length(new_hits) == 0) {
      break
    }
    hits <- c(hits, new_hits)
  }
  df <- NULL
  for(hit in hits) { df <- rbind(df, parse_hit(hit)) }
  colnames(df) <- columns
  return(as_tibble(df))
}

```

```
kendrick <- search("Kendrick Lamar")
```

```
kendrick
```

```

## # A tibble: 956 x 19
##   id      type full_title  title  title_with_feat~ artist  primary_artist_~
##   <chr>   <chr> <chr>      <chr>  <chr>          <chr>   <chr>
## 1 3039923 song  HUMBLE. by K~ HUMBLE. HUMBLE.      Kendri~ 1421
## 2 90478   song  m.A.A.d city~ m.A.A.~ m.A.A.d city (F~ Kendri~ 1421
## 3 81159   song  Swimming Poo~ Swimmi~ Swimming Pools ~ Kendri~ 1421
## 4 3035222 song  DNA. by Kend~ DNA.    DNA.          Kendri~ 1421
## 5 90475   song  Money Trees ~ Money ~ Money Trees (Ft~ Kendri~ 1421
## 6 3047142 song  XXX. by Kend~ XXX.    XXX. (Ft. U2)   Kendri~ 1421
## 7 90473   song  Bitch, Don't~ Bitch,~ Bitch, Don't Ki~ Kendri~ 1421
## 8 92856   song  Poetic Justi~ Poetic~ Poetic Justice ~ Kendri~ 1421
## 9 721659  song  King Kunta b~ King K~ King Kunta      Kendri~ 1421
## 10 3047141 song  LOVE. by Ken~ LOVE.   LOVE. (Ft. Zaca~ Kendri~ 1421
## # ... with 946 more rows, and 12 more variables: annotation_count <chr>,
## #   unreviewed_annotations <chr>, hot <chr>, page_views <chr>,
## #   lyrics_owner <chr>, lyrics_state <chr>, pyongs_count <chr>, page <chr>,
## #   thumbnail <chr>, image <chr>, song_art_thumbnail <chr>, song_art <chr>

```