R http API client 1

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Summary

This script installs from the *"configuration shunk"* the *"httr2"* package. All interogations of the HDX database relies on it.

For more informations, see :
https://httr2.r-lib.org/
https://cran.r-project.org/web/packages/httr2/

URL of the reliefWeb API :
https://apidoc.rwlabs.org/

Code for parametric search is largely inspired form "Disastr.api" ; wrapper for the UN OCHA ReliefWeb Disaster Events API. Adaptation done to adapte for other ENDPOINTS (see below, eg. "reports").

```r
knitr::opts_chunk$set(echo = TRUE)

# Packages installation
# install.packages("httr2")
# install.packages("rjson")

# Load the package required to http protocole management.
library("httr2")
```

```
## Warning: le package 'httr2' a été compilé avec la version R 4.2.3
```

```r
# Load the package required to read JSON files.
library("rjson")

# DEFINE [ENDPOINTS ; FIELDS] CORRESPONDENCE TABLE :
# Each ENDPOINTs have it's own structure in the Relief Web API
# (see "https://apidoc.reliefweb.int/fields-tables" for more).
# For this to be transparent to user, function needs to switch those on demande.
# RECALL : ENDPOINTs are to be chosen in a list, same as following :
endpoints = c(
    "reports",
    "disasters",
    "countries",
    "jobs",
    "training",
    "sources",
    "blog",
```

```r
    "book"
  )


# Thus the corresponding fields-table for TITLE/NAME :
fields = c(
    "title", # reports
    "name",  # disasters
    "name",  # "countries",
    "title", # "jobs",
    "title", # "training",
    "name",  # "sources",
    "title", # "blog",
    "title"  # "book",
  )


Param_table = cbind(fields,endpoints)
```

Variables definition :

"Endpoint" defines the type of documents (eg, reports, job annonce, disaster event. . . .). *"parameters"* are then given to search for words in specific fields ; some being specific to certain *endpoints*.

For more information on parameters, see API documentation

Client

3 functions :

1. : calls API url and defines *"endpoint"*

```r
req_call <- function(endpoint){

  req = request("https://api.reliefweb.int/v1/")
  req = req_url_path_append(req, endpoints[endpoint])
  req$url = paste0(req$url,"?appname=R_HDX_client_2")

  return(req)
}
```

Returns a REQUEST which is to enrich with *"parameters"*.

2. Summaryze results :

Beware of parentheses in multi-arguments calls for URL management seek.

```r
res_summary <- function(res, type){

  # - input : { Resultat after JSon extract [res] ; The field to print in final list [field]}
  # - output : a list of fields from objects extracted by [res]

  # SUMMARY (depending on types as ENDPOINT, due to different API structures ; see API) :
    # Example :
```

```r
    # - endpoint = 1 -> reports -> title
    # - endpoint = 2 -> disasters -> name

x = Param_table[,2] == type
field = Param_table[x,1]

eval(parse(text = paste("
for(i in seq(1,res$count)){
print(paste0(i,\" -> \",res$data[i][[1]]$fields$",field,"))}",sep="")))
}
```

3. Get specific FIELD in specific resource and see on web :

```r
COLLECT_SEARCH = function(res) {
  # Objectif : print a summary according to given FIELD
  # Input : a result-pool
  # Output : LIST of fields for all pool
  # PRINT MENUE :
  title_list = lapply(res$data, function(x) {
    print(x$fields)
  })
  print(title_list)
  # KEYBOARD ENTRY :
  # - CHOOSE resource :
  y = as.numeric(readline("Choose ressource to view on web : \n"))
  # - CHOOSE field (see.....) :
  field = readline("Choose a field to view : \n")
  # - OPTIONAL web-page :
  web_page = readline("Do you want to open web-page (Y/N) : \n")
  # LIST FIELDS in the pool :
  result = eval(parse(text = paste0("res$data[[", y, "]]$", field)))
  # WEB PAGE :
  if (web_page == "Y" |
      web_page == "y") {
    web_page_url = res$data[[y]]$href
    browseURL(url = web_page_url)
  }
  # RETURN the field-list
  return(result)
}
```

```r
PRINT_SEARCH = function(res,
                        numero,
                        namefile,
                        endpoint,
                        txt = NULL,
                        html = NULL,
                        pdf = NULL) {

  # Get specific ENDPOINT item :
  x = Param_table[,2] == endpoints[endpoint]
  field = Param_table[x,1]
```

```r
# Menu results :
lapply(res$data,function(x){x$fields$name})

# Request URL :
url  = res$data[[numero]]$href
req  = request(url)
resp = req_perform(req)
resp = resp_body_json(resp)

# Print resource to txt file :
if(!is.null(txt)){
# sink(
#   file = paste0(
#     "C:/Users/Benjamin/Documents/GITHub/HDX_Proj-1/DATAs/Logs/",
#     namefile,
#     ".txt"
#   ),
#   append = FALSE,
#   type = c("output")
# )
ifelse(endpoint == 1,
    req_perform(
    request(res$data[[1]]$href),
        path = paste0("C:/Users/Benjamin/Documents/GITHub/HDX_Proj-1/DATAs/",namefile)),
ifelse(endpoint == 2,
    resp$data[[1]]$fields$description,
    "autre type de document..."
))
# print(resp$data[[1]]$fields$name)
# print(resp$data[[1]]$fields$description)
print(resp$data[[1]]$fields$body)
# sink()
}

# Print resource as HTML :
 if(!is.null(html)){
   sink(
   file = paste0(
     "C:/Users/Benjamin/Documents/GITHub/HDX_Proj-1/DATAs/HTML/",
     namefile,
     ".html"
   ),
   append = FALSE,
   type = c("output")
 )
print(resp$data[[1]]$fields$`description-html`)
print(resp$data[[1]]$fields$`body-html`)
sink()
}

# Save pdf file :
if (!is.null(pdf)) {
   req_perform(
```

```r
        request(resp$data[[1]]$fields$url),
      path = paste0(
        "C:/Users/Benjamin/Documents/GITHub/HDX_Proj-1/DATAs/PDF/",
        namefile
      )
    )
  }

  # sink(file = paste0("C:/Users/Benjamin/Documents/GITHub/HDX_Proj-1/Logs/",namefile,"_pdf.txt"), appe
  # if(pdf==TRUE){
  # library(pdftools)
  # pdftools::pdf_text(pdf = req$body)
  # }
  # sink()

  return(resp_body_json(req_perform(req)))
}
```

Main function :

```r
# Perform a request that covers multi-arguments and operators :
Main <-
  function(endpoint = 1,
           limit = NULL,
           operator = NULL,
           date.start = NULL,
           date.end = NULL,
           ascending.date = NULL,
           ascending.title = NULL,
           exact.match = FALSE,
           country = NULL,
           disaster = NULL,
           field = NULL,
           value = NULL
           ) {

  # DEBUG panel : exposes variables to run function from the inside. Uncomment if needed.
  # - Set intern variables :
           # endpoint = 1
           # limit = 50
           # field = c("title", "country")
           # value = c("water","france")
           # date.start = "2019-01-02"
           # date.end = "2020-01-02"
           # ascending.date = TRUE
           # ascending.title = TRUE
           # exact.match = FALSE
           # operator = NULL
           # disaster = NULL
           # country = NULL

  # 1. CALL REQUEST ON THE RELIEF WEB API :
  req = req_call(endpoint)
```

```r
# 2. PARAMETRISATION :
# Conversation with API goes through URLs. First strep is to create each parameter code.
# - LIMIT argument (if not given in arg. se limit in IF method) :
if (is.null(limit) == TRUE | is.numeric(limit) == TRUE) {
  limit1 <-
    ifelse(is.null(limit) == TRUE,
           "&limit=100",
           paste0("&limit=", limit))
}

# - OPERATOR (given only once) :
if (!is.null(operator)) {
  operator = capture.output(cat("query[operator]=", operator, sep = ""))
}

# - DATE.START argument
if (is.null(date.start) == TRUE |
    is.character(date.start) == TRUE) {
  date.start1 <- ifelse(
    is.null(date.start) == TRUE,
    "",
    paste0(
      "&filter[field]=date&filter[value][from]=",
      date.start,
      "T00:00:00%2B00:00"))
}

# - DATE.END argument
if (is.null(date.end) == TRUE | is.character(date.end) == TRUE) {
  date.end1 <- ifelse(
    is.null(date.end) == TRUE,
    "",
    paste0(
      "&filter[field]=date&filter[value][to]=",
      date.end,
      "T00:00:00%2B00:00"))
}

# - ASCENDING DATE argument
if (is.logical(ascending.date) == TRUE) {
  ascending1 <-
    ifelse(ascending.date == FALSE, "&sort[]=date:desc", "&sort[]=date:asc")
}

# - ASCENDING TITLE argument
if (is.logical(ascending.title) == TRUE) {
  ascending1 <-
    ifelse(
      ascending.title == FALSE,
      paste0("&sort[]=", fields[endpoint], ":desc"),
      paste0("&sort[]=", fields[endpoint], ":asc")
    )
}
```

```r
  # - Exact.match argument
  if ((
    is.character(disaster) == TRUE | is.character(country) == TRUE )) {
    if (is.logical(exact.match) == TRUE) {
      exact.match1 <- ifelse(exact.match == FALSE,
                             "&query[operator]=OR",
                             "&query[operator]=AND")
    }
  }


  # - Country argument :
  if (is.null(country) == TRUE | is.character(country) == TRUE) {
    country1 <- ifelse(is.null(country) == TRUE,
                       "",
                       paste0("&filter[field]=country:", paste(gsub(
                         "\\s{1}", "%", country
                       ), collapse = "|")))
  }


   # - Disaster argument
  if (is.null(disaster) == TRUE | is.character(disaster) == TRUE) {
    disaster1 <- ifelse(is.null(disaster) == TRUE,
                        "",
                        paste0("&query[value]=type:", paste(
                          gsub("\\s{1}", "%", disaster), collapse = "|")))
  }


  # - ARGUMENTS TO QUERY :
  # CAUTION : In this version, VALUES and FIELDS are PAIRED :  MUST be  TWO VECTORS of the SAME SIZE :
  # EXAMPLE : to search for two words in the same field (here "title"), see
  # Main(...,field = c("title, "title"),value = c("word_1", "word_2"), )
  values = c()
  for (i in seq(1, length(value))) {
    if (!is.null(field[i])) {
      values = append(values, capture.output(cat("query[fields][]=", field[i], sep = "")))
    }
    if (!is.null(value[i])) {
      values = append(values, capture.output(cat("query[value]=", value[i], sep = "")))
    }
  }


# 4. Add PARAMETEERS to RELIEF WEB - API-URL :
# Makes a "Kickstart" with individual concatenated parametric codes.
# - Each line verifying argument existence before concatenation.
  kickstart = paste0(limit1)
  kickstart = ifelse(exists("ascending1"),capture.output(cat(kickstart,ascending1,sep = "")),kickstart
  kickstart = ifelse(exists("country1"),capture.output(cat(kickstart,country1,sep = "")),kickstart)
  kickstart = ifelse(exists("date.start1"),capture.output(cat(kickstart,date.start1,sep = "")),kicksta
  kickstart = ifelse(exists("date.end1"),capture.output(cat(kickstart,date.end1,sep = "")),kickstart)
  kickstart = ifelse(exists("disaster1"),capture.output(cat(kickstart,disaster1,sep = "")),kickstart)
  kickstart = ifelse(exists("exact.match1"),capture.output(cat(kickstart,country1,sep = "")),kickstart

# - Then, concatenation with [API-url + endpoint-code] :
```

```r
    kickstart = paste0(req$url,kickstart)

  # - Then qdd to the KICKSTART the code for every [KEY WORDS ; FIELDS] couples.
  # RECALL : words and fields a to give by couple. Have to be presented as equaly sized VECTOR
  if(!is.null(values)){
    # vectors are of the form :
    # ["query[fields][]=.........." ; ""query[value]=.........."]
    temp = capture.output(cat(values,sep = "&"))
    # temp = capture.output(cat(temp,operator,sep = "&"))
    # arranged in the form : [................]
    # - Then concatenate QUERY-parametric code to KICKSTART
    temp = capture.output(cat("&",temp,sep = ""))
    temp = capture.output(cat(kickstart,temp,sep=""))
  }else{
    # - If no QUERY-argument, let the KICKSTART be
    temp=kickstart
  }

  # Print URL for debugging :
  print(temp)

  # PERFORM REQUEST :
  request = request(temp)
  resp = req_perform(request)

  # JSON :
  res = resp_body_json(resp)

  # INFOS :
  print("for :")
  print(res$href)
  print("had :")
  print(res$totalCount)
  print("got :")
  print(res$count)

  # SUMMARY (depending on types as ENDPOINT, due to different API structures ; see API) :
  # Example :
  # - endpoint = 1 -> reports -> title
  # - endpoint = 2 -> disasters -> name
  print(res_summary(res,type = endpoints[endpoint]))

  # Return list of results :
  return(res)
}
```

For more informations on *"parameters"* for this API, you may want to loog the online documentation. The **3rd** function *summarize* the results in a sized list :

##Examples :

```r
endpoint = 1
value = c("flood")
field = c("name")
```

```
# operator = "AND"

# Simple request :
# res = Main(endpoint = endpoint,limit = 100,field = field,value = value,date.start = )
# With DATE START :
res = Main(endpoint = endpoint,limit = 10, ascending.date = TRUE)
```

```
## [1] "https://api.reliefweb.int/v1/reports?appname=R_HDX_client_2&limit=10&sort[]=date:asc"
## [1] "for :"
## [1] "https://api.reliefweb.int/v1/reports?appname=R_HDX_client_2&limit=10&sort[]=date:asc"
## [1] "had :"
## [1] 1024987
## [1] "got :"
## [1] 10
## [1] "1 -> General map of the Dominican Republic"
## [1] "2 -> Foreign Disaster Emergency Relief: 109th Report, Fiscal Year 1970"
## [1] "3 -> Foreign Disaster Emergency Relief: 11th Report, Fiscal Year 1971"
## [1] "4 -> Uruguay - Shaded Relief Map"
## [1] "5 -> Political Map of Singapore"
## [1] "6 -> Resolution 338 of 22 Oct 1973"
## [1] "7 -> 12th Foreign Disaster Emergency Relief Report: Fiscal Year 1972/73, Agency for Internationa
## [1] "8 -> Sudan - Regional Boundary"
## [1] "9 -> Sudan - District Boundary"
## [1] "10 -> Sudan - Province Boundary"
## NULL
```

```
endpoint = 1
value = c("cuba","hurrican")
field = c("title","title")
# operator = "OR"

# Simple request :
# res = Main(endpoint = endpoint,limit = 100,field = field,value = value,date.start = )
# With DATE START :
res = Main(
  endpoint = endpoint,
  limit = 100,
  field = field,
  value = value

)
```

```
## [1] "https://api.reliefweb.int/v1/reports?appname=R_HDX_client_2&limit=100&query[fields][]=title&que
## [1] "for :"
## [1] "https://api.reliefweb.int/v1/reports?appname=R_HDX_client_2&limit=100&query[fields][]=title&que
## [1] "had :"
## [1] 6
## [1] "got :"
## [1] 6
## [1] "1 -> Madagascar - Mahajanga/Antsiranana provinces, Ambanja area - Hurrican Indlala (as of 1 Apr
## [1] "2 -> ADRA relief for hurrican devastation"
## [1] "3 -> Hurrican Iota reaches Category Two prior to arriving in Central America"
## [1] "4 -> Two killed by Hurricane Irene in Cuba"
```

```
## [1] "5 -> ACT Appeal El Salvador - Rehabilitation for Hurrican Isidore flood affected - LASA22"
## [1] "6 -> Air Serv now operating three planes in Carribbean hurrican recovery"
## NULL
```

```r
# Forge request :
# res = Main(endpoint = 1,limit = 20, field = c("title","title"), value = c("gaza","health"),operator =

endpoint = 1
limit = 100
value = c("WHO", "congo")
# RECALL : field must correspond to result structure (see Relief Web API) :
# Either :
field = c("title", "title")
# Either :
# field = c("name")
# Paramatrisation :
# operator = "AND"
date.start = "2020-01-02"
date.end = "2020-01-02"

# Simple request parameters :
# res = Main(endpoint = endpoint,limit = 100,field = field,value = value,date.start = )
res = Main(
  endpoint = endpoint,
  limit = limit,
  field = field,
  value = value,
  # disaster = "storm",
  date.start = date.start
)
```

```
## [1] "https://api.reliefweb.int/v1/reports?appname=R_HDX_client_2&limit=100&filter[field]=date&filter
## [1] "for :"
## [1] "https://api.reliefweb.int/v1/reports?appname=R_HDX_client_2&limit=100&filter[field]=date&filter
## [1] "had :"
## [1] 4947
## [1] "got :"
## [1] 100
## [1] "1 -> Official position of the Congolese Government on the situation in the Democratic Republic
## [1] "2 -> Ayuda humanitaria española a la República Democrática del Congo: La AECID proporcionará 94
## [1] "3 -> Democratic Republic of Congo and Republic of Congo: Floods - Information Bulletin"
## [1] "4 -> Rapport annuel 2021 de la Caritas Congo Asbl : Environ 3 millions de personnes touchées di
## [1] "5 -> Democratic Republic of the Congo: Satellite detected water extent between 11 Jun. 2022 and
## [1] "6 -> Democratic Republic of the Congo: Satellite detected waters extents between 7 April 2020 a
## [1] "7 -> Asistencia técnica y fomento de la capacidad en la esfera de los derechos humanos en la Re
## [1] "8 -> République Démocratique du Congo: République Démocratique du Congo : Structure de coordina
## [1] "9 -> Technical assistance and capacity-building in the field of human rights in the Democratic
## [1] "10 -> République démocratique du Congo : Ituri, Nord-Kivu & Sud-Kivu - Plan opérationnel pour l
## [1] "11 -> Position officielle du Gouvernement sur la situation en République démocratique du Congo
## [1] "12 -> République Démocratique du Congo: Évaluation du nouvel afflux de réfugiés centrafricains
## [1] "13 -> Le Canada annonce un financement pour fournir une aide humanitaire aux personnes touchées
## [1] "14 -> Canada announces funding to provide humanitarian assistance to flood-affected people in t
## [1] "15 -> Democratic Republic of the Congo: Satellite detected waters extents between 7 April 2020 a
## [1] "16 -> Democratic Republic of the Congo: Satellite detected waters extents between 7 April 2020 a
```

[1] "17 -> Democratic Republic of the Congo, Ituri Province: Satellite detected water extent between
[1] "18 -> Assistance technique et renforcement des capacités dans le domaine des droits de l'homme e
[1] "19 -> Democratic Republic of the Congo: Ituri, North Kivu & South Kivu - Operational Plan for Ea
[1] "20 -> Democratic Republic of the Congo: Ituri, North-Kivu & South-Kivu - Operational Plan for Ea
[1] "21 -> UNICEF Democratic Republic of the Congo Humanitarian Situation Report No. 1 - January 2020
[1] "22 -> UNICEF Democratic Republic of the Congo Humanitarian Situation Report No. 2 - February 202
[1] "23 -> Democratic Republic of the Congo - Ebola Outbreak Fact Sheet #6, Fiscal Year (FY) 2020 (Ma
[1] "24 -> USAID Announces Nearly $23.4 Million in Additional Humanitarian Assistance to Contain Ebol
[1] "25 -> Democratic Republic of Congo: Coronavirus (COVID-19) Situation Report #8 14-28 May 2020"
[1] "26 -> UNICEF Democratic Republic of the Congo Humanitarian Situation Report No. 4 - April 2020"
[1] "27 -> Eastern Democratic Republic of Congo: Ebola crisis situation report | 10 February 2020"
[1] "28 -> Helpdesk Report K4D: Barriers to education for girls in the Democratic Republic of Congo"
[1] "29 -> Democratic Republic of Congo: Coronavirus (COVID-19) Situation Report #3"
[1] "30 -> Democratic Republic of Congo: Coronavirus (COVID-19) Situation Report #4"
[1] "31 -> En République démocratique du Congo, les enfants menacés par des épidémies meurtrières de
[1] "32 -> Children in the Democratic Republic of the Congo at risk from killer measles, cholera epi
[1] "33 -> UNICEF Democratic Republic of the Congo Humanitarian Situation Report No. 3 - March 2020"
[1] "34 -> Democratic Republic of Congo: Coronavirus (COVID-19) Situation Report #5"
[1] "35 -> UNICEF DR Congo Ebola Situation Report #51 North Kivu, Ituri and South Kivu - Reporting Pe
[1] "36 -> Active USG Programs for Ebola Response and Preparedness in the Democratic Republic of the
[1] "37 -> Democratic Republic of the Congo - Ebola Outbreak Fact Sheet #4, Fiscal Year (FY) 2020 (Fe
[1] "38 -> Note to Correspondents: Independent assessment of MONUSCO's response to recent attacks aga
[1] "39 -> Democratic Republic of the Congo - Complex Emergency Fact Sheet #3 Fiscal Year (FY) 2021"
[1] "40 -> Secretary-General Condemns Deadly Attack on Peacekeepers in North Kivu, Democratic Republi
[1] "41 -> Security Council Press Statement on Attack against United Nations Organization Stabilizati
[1] "42 -> Saddened by Deadly Volcano Eruption in Democratic Republic of Congo, Secretary-General Say
[1] "43 -> UNICEF Democratic Republic of Congo Humanitarian Situation Report No. 05 (Volcano Eruptior
[1] "44 -> UNICEF Democratic Republic of Congo Humanitarian Situation Report No. 07 (Volcano Eruptior
[1] "45 -> United Nations Organization Stabilization Mission in the Democratic Republic of the Congo
[1] "46 -> New shelter and new life after volcano eruption in the Democratic Republic of Congo"
[1] "47 -> Human Rights Council Extends Mandates on the Central African Republic, the Democratic Repu
[1] "48 -> Implementation of the Peace, Security and Cooperation Framework for the Democratic Republi
[1] "49 -> Democratic Republic of the Congo - USG Response to the Complex Emergency (Last Updated 09,
[1] "50 -> Security Council Press Statement on Crash of United Nations Organization Stabilization Mis
[1] "51 -> République démocratique du Congo: le Secrétaire général se félicite des efforts menés au r
[1] "52 -> Mission de l'Organisation des Nations Unies pour la stabilisation en République démocratic
[1] "53 -> République démocratique du Congo: le Secrétaire général condamne l'attaque à Bali qui a co
[1] "54 -> Press briefing notes on Democratic Republic of Congo, 8 February 2022"
[1] "55 -> UNICEF Congo Humanitarian Situation Report - Reporting Period: From 1st of January to 31st
[1] "56 -> USAID announces $400,000 for people affected by flooding in Republic of the Congo"
[1] "57 -> Déclaration à la presse faite par le Conseil de sécurité sur la situation en République de
[1] "58 -> Security Council press statement on situation in Democratic Republic of the Congo"
[1] "59 -> République du Congo: à l'approche de l'élection présidentielle du 21 mars, le Secrétaire g
[1] "60 -> MORNING - Human Rights Council Holds Enhanced Interactive Dialogue on the Human Rights Sit
[1] "61 -> Militia violence threatens 3 million displaced children in Democratic Republic of Congo: l
[1] "62 -> Mission de l'Organisation des Nations Unies pour la stabilisation en République démocratic
[1] "63 -> United Nations Organization Stabilization Mission in the Democratic Republic of the Congo
[1] "64 -> UNICEF Democratic Republic of the Congo Humanitarian Situation Report No. 7 for July 2021"
[1] "65 -> 48th session of the Human Rights Council Enhanced Interactive dialogue on the situation or
[1] "66 -> La justice transitionnelle est essentielle pour débloquer le cercle vicieux de la violence
[1] "67 -> Note to correspondents - on the situation in the Democratic Republic of the Congo"
[1] "68 -> Democratic Republic of the Congo - UNICEF urges parents and children in Equateur Province
[1] "69 -> UNICEF Democratic Republic of the Congo Humanitarian Situation Report No. 6: January - Ju
[1] "70 -> EU-funded health and nutrition collaboration supports thousands in conflict-affected part

```
## [1] "71 -> DR Congo is still struggling with the consequences of the COVID- 19 pandemic"
## [1] "72 -> Condemning Deadly Attack on Peacekeepers, Mission Premises in Democratic Republic of Congo
## [1] "73 -> Democratic Republic of the Congo - USG Response to the Complex Emergency (12/10/21)"
## [1] "74 -> Democratic Republic of the Congo - USG Response to the Complex Emergency (02/08/22)"
## [1] "75 -> Eastern Democratic Republic of Congo: Ebola crisis situation report | 16 April 2020"
## [1] "76 -> Democratic Republic of the Congo - Ebola Outbreak Fact Sheet #1, Fiscal Year (FY) 2021 (No
## [1] "77 -> UNICEF Democratic Republic of the Congo Humanitarian Situation Report No. 9 - September 20
## [1] "78 -> Security Council press statement on attack against United Nations Organization Stabilizati
## [1] "79 -> République démocratique du Congo - Situation d'urgence complexe 22 novembre 2022 Fiche d'i
## [1] "80 -> Secretary-General Strongly Condemns Deadly Attacks in Democratic Republic of Congo"
## [1] "81 -> United Nations Organization Stabilization Mission in the Democratic Republic of the Congo
## [1] "82 -> République démocratique du Congo : la Représentante spéciale demande au Conseil de sécurit
## [1] "83 -> Adopting Resolutions 2666 and 2667 (2022), Security Council Extends Mandate of Stabilizati
## [1] "84 -> Humanitarian Action for Children 2023 - Democratic Republic of the Congo"
## [1] "85 -> République démocratique du Congo - Situation d'urgence complexe 30 septembre 2022 Fiche d
## [1] "86 -> Les enfants et le conflit armé en République démocratique du Congo - Rapport du Secrétaire
## [1] "87 -> Children and armed conflict in the Democratic Republic of the Congo - Report of the Secre
## [1] "88 -> UNICEF Democratic Republic of the Congo Situation Report #3 (Upsurge of violence in Rutshu
## [1] "89 -> Des enquêteurs médico-légaux aident à rendre justice aux victimes en République Démocratic
## [1] "90 -> Democratic Republic of the Congo: USG Response to the Complex Emergency (Last Updated 30/0
## [1] "91 -> Democratic Republic of the Congo - Complex Emergency Fact Sheet #5 Fiscal Year (FY) 2022"
## [1] "92 -> UNICEF Democratic Republic of the Congo Flash Update (Upsurge of violence in Rutshuru terr
## [1] "93 -> Mise en œuvre de l'Accord-cadre pour la paix, la sécurité et la coopération pour la Républ
## [1] "94 -> Security Council Press Statement on Attack against United Nations Organization Stabilizati
## [1] "95 -> Ahead of Elections, Peacekeeping Mission Drawdown in Democratic Republic of Congo, Securi
## [1] "96 -> Inquiétudes au Conseil de sécurité face aux tensions entre la République démocratique du C
## [1] "97 -> UNICEF Democratic Republic of the Congo Ebola Situation Report, 24 August 2022"
## [1] "98 -> Democratic Republic of the Congo: USG Response to the Complex Emergency (Last Updated 22/
## [1] "99 -> UNICEF Democratic Republic of the Congo: Upsurge of violence in Rutshuru territory, DRC S
## [1] "100 -> Forensic investigators bring DR Congo victims closer to justice"
## NULL
```

```r
numero = 68

test_1 = PRINT_SEARCH(
  res = res,
  numero = numero,
  endpoint = endpoint,
  namefile = "test_2",
  txt = TRUE,
  html = TRUE,
  pdf = TRUE
)
```

```
## [1] "KINSHASA, 29 APRIL 2022 - UNICEF has urged parents and children living in the western province o
```

```r
# Request collections :

# Search for epidemiologic events for DENGUE disease, chronologicaly ordered :
# x = Main(endpoint = 2,ascending.date = FALSE,disaster = "Epidemic", value = c("Dengue"),field = c("na
# res_summary(x,type = "disasters")

# Search for latest REPORTS with WHO in their title :
```

```
# x = Main(endpoint = 1,limit = 50,ascending.date = FALSE, value = c("WHO"),field = c("title"))
# res_summary(x,type = "reports")
```