Practica2

2023-04-21

Pregunta 1

1. Descargar la página web de la URL indicada, y almacenarlo en un formato de R apto para ser tratado.

```r
# Almacenando la URl
html <- GET("https://www.mediawiki.org/wiki/MediaWiki")
# Descargando contenido de la página web
contenido <- content(html, as = "text")
# Analizando el contenido de la página web
parsedHtml <- htmlParse(contenido, asText = TRUE)
```

2. Analizar el contenido de la web, buscando el título de la página (que en HTML se etiqueta como "title").

```r
# Obteniendo el título de la web
xpath <- "//title"
# Utilizando la función: xpathSApply()
titulos <- xpathSApply(parsedHtml, xpath, xmlValue)
# Se muestra el Título de la Pagina Web
cat("Título de la Página Web:\n")
```

```
## Título de la Página Web:
```

```r
cat(titulos, sep = "\n")
```

```
## MediaWiki
```

3. Analizar el contenido de la web, buscando todos los enlaces (que en HTML se etiquetan como "a"), buscando el texto del enlace, así como la URL.

```r
# Extrayendo los nombres de la etiqueta <a></a>
name_hyperlink <- xpathSApply(parsedHtml, "//a", xmlValue)
#name_hyperlink
# Extrayendo los valores del atributo href de la etiqueta <a></a>
url_hyperlink <- xpathSApply(parsedHtml, "//a", xmlGetAttr, "href")

# Validando si los nombres de la etiqueta tienen valores null
null_name <- sapply(name_hyperlink, is.null)
# Validando si los valores del atributo href tienen valores null
null_href <- sapply(url_hyperlink, is.null)
# Reemplazando los valores null por el valor NA
```

```
name_hyperlink[null_name] <- NA
url_hyperlink[null_href] <- NA
# Convirtiendo de lista a vector los nombres y el valor del href del la etiqueta <a></a>
name_hyperlink <- unlist(name_hyperlink)
url_hyperlink  <- unlist(url_hyperlink)

# Se valida que hay texto que tiene al principio espacios pero son iguales
# Se realiza la eliminación de los espacios al inicio
name_hyperlink <- str_replace(name_hyperlink, "^\\s+", "")
# Creando una tabla con el texto y su respectivo url del enlace
links_tables <- data.frame(Text = name_hyperlink, Url = url_hyperlink)

kable(links_tables)
```

Text	Url
Jump to content	#bodyContent
Main page	/wiki/MediaWiki
Get MediaWiki	/wiki/Download
Get extensions	/wiki/Special:MyLanguage/Category:Extensions
Tech blog	//techblog.wikimedia.org/
Contribute	/wiki/Special:MyLanguage/How_to_contribute
User help	/wiki/Special:MyLanguage/Help:Contents
FAQ	/wiki/Special:MyLanguage/Manual:FAQ
Technical manual	/wiki/Special:MyLanguage/Manual:Contents
Support desk	/wiki/Project:Support_desk
Communication	/wiki/Special:MyLanguage/Communication
Developer portal	https://developer.wikimedia.org/
Code statistics	/wiki/Development_statistics
Community portal	/wiki/Project:Help
Recent changes	/wiki/Special:RecentChanges
Translate content	/wiki/Special:LanguageStats
Random page	/wiki/Special:Random
Village pump	/wiki/Project:Village_Pump
Sandbox	/wiki/Project:Sandbox
	/wiki/MediaWiki
Search	/wiki/Special:Search
English	#
Create account	/w/index.php?title=Special:CreateAccount&returnto=MediaWiki
Log in	/w/index.php?title=Special:UserLogin&returnto=MediaWiki
Create account	/w/index.php?title=Special:CreateAccount&returnto=MediaWiki
Log in	/w/index.php?title=Special:UserLogin&returnto=MediaWiki
learn more	/wiki/Help:Introduction
Contributions	/wiki/Special:MyContributions
Talk	/wiki/Special:MyTalk
Main Page	/wiki/MediaWiki
Discussion	/wiki/Talk:MediaWiki
Read	/wiki/MediaWiki
View source	/w/index.php?title=MediaWiki&action=edit
View history	/w/index.php?title=MediaWiki&action=history
Read	/wiki/MediaWiki
View source	/w/index.php?title=MediaWiki&action=edit
View history	/w/index.php?title=MediaWiki&action=history

Text	Url
What links here	/wiki/Special:WhatLinksHere/MediaWiki
Related changes	/wiki/Special:RecentChangesLinked/MediaWiki
Upload file	//commons.wikimedia.org/wiki/Special:UploadWizard
Special pages	/wiki/Special:SpecialPages
Permanent link	/w/index.php?title=MediaWiki&oldid=3878227
Page information	/w/index.php?title=MediaWiki&action=info
Cite this page	/w/index.php?title=Special:CiteThisPage&page=MediaWiki&id=3878227&wpForm
Wikidata item	https://www.wikidata.org/wiki/Special:EntityPage/Q5296
Create a book	/w/index.php?title=Special:Book&bookcmd=book_creator&referer=MediaWiki
Download as PDF	/w/index.php?title=Special:DownloadAsPdf&page=MediaWiki&action=show-download-screen
Printable version	/w/index.php?title=MediaWiki&printable=yes
Wikimedia Commons	https://commons.wikimedia.org/wiki/Main_Page
Meta-Wiki	https://meta.wikimedia.org/wiki/Main_Page
Multilingual Wikisource	https://wikisource.org/wiki/Main_Page
Wikispecies	https://species.wikimedia.org/wiki/Main_Page
Wikibooks	https://en.wikibooks.org/wiki/Main_Page
Wikidata	https://www.wikidata.org/wiki/Wikidata:Main_Page
Wikimania	https://wikimania.wikimedia.org/wiki/Wikimania
Wikinews	https://en.wikinews.org/wiki/Main_Page
Wikipedia	https://en.wikipedia.org/wiki/Main_Page
Wikiquote	https://en.wikiquote.org/wiki/Main_Page
Wikisource	https://en.wikisource.org/wiki/Main_Page
Wikiversity	https://en.wikiversity.org/wiki/Wikiversity:Main_Page
Wikivoyage	https://en.wikivoyage.org/wiki/Main_Page
Wiktionary	https://en.wiktionary.org/wiki/Wiktionary:Main_Page
	/wiki/File:Wikimedia_Hackathon_Prague_2019_-_Group_Photo_-_CLK_-_cropped.jpg
tens of thousands of websites	/wiki/Special:MyLanguage/Sites_using_MediaWiki
thousands of companies and organizations	/wiki/Special:MyLanguage/MediaWiki_testimonials
multilingual	/wiki/Special:MyLanguage/Localisation
free and open	https://en.wikipedia.org/wiki/FLOSS
Find out more	/wiki/Special:MyLanguage/Manual:What_is_MediaWiki%3F
if MediaWiki is right for you	/wiki/Special:MyLanguage/Manual:Deciding_whether_to_use_a_wiki_as_your_v
Download	/wiki/Special:MyLanguage/Download
install	/wiki/Special:MyLanguage/Manual:Installation_guide
configure	/wiki/Special:MyLanguage/Manual:System_administration
extensions	/wiki/Special:MyLanguage/Manual:Extensions
errors and symptoms	/wiki/Special:MyLanguage/Manual:Errors_and_symptoms
FAQ	/wiki/Special:MyLanguage/Manual:FAQ
hosting services	/wiki/Special:MyLanguage/Hosting_services
Get professional development and consulting	/wiki/Special:MyLanguage/Professional_development_and_consulting
	/wiki/Professional_development_and_consulting
MediaWiki Stakeholders	/wiki/Special:MyLanguage/MediaWiki_Stakeholders%27_Group
Learn how to navigate	/wiki/Special:MyLanguage/Help:Navigation
	/wiki/Help:Navigation
Learn how to edit a page	/wiki/Special:MyLanguage/Help:Editing_pages
	/wiki/Help:Editing_pages
Learn more about reading, editing, and personal customization	/wiki/Special:MyLanguage/Help:Contents

Text	Url
	/wiki/Help:Contents
developer documentation	/wiki/Special:MyLanguage/Developer_hub
Wikimedia Developer Portal	https://developer.wikimedia.org
support desk	/wiki/Project:Support_desk
Get involved	/wiki/Special:MyLanguage/How_to_contribute
Report wrong software behavior or a feature proposal	/wiki/Special:MyLanguage/How_to_report_a_bug
	/wiki/How_to_report_a_bug
MediaWiki 1.35.10, 1.38.6 and 1.39.3 security releases	https://lists.wikimedia.org/hyperkitty/list/mediawiki-announce@lists.wikimedia.org/message/6UQBHI5FWLATD7QO7DI4YS54U7XSSLAN/
EMWCon	/wiki/Special:MyLanguage/EMWCon_Spring_2023
View livestream	https://www.youtube.com/watch?v=r0xEhy9bBFU
Wikimedia Hackathon	/wiki/Special:MyLanguage/Wikimedia_Hackathon_2023
@mediawiki@wikis.world	https://wikis.world/@mediawiki
More news	https://www.mediawiki.org/wiki/Special:MyLanguage/News
Other languages:	/wiki/Special:MyLanguage/Project:Language_policy
	/wiki/Project:Language_policy
English	/wiki/Template:Main_page
Afrikaans	https://www.mediawiki.org/wiki/Template:Main_page/af
	https://www.mediawiki.org/wiki/Template:Main_page/ar
asturianu	https://www.mediawiki.org/wiki/Template:Main_page/ast
	https://www.mediawiki.org/wiki/Template:Main_page/be
( )	https://www.mediawiki.org/wiki/Template:Main_page/be-tarask
	https://www.mediawiki.org/wiki/Template:Main_page/bg
	https://www.mediawiki.org/wiki/Template:Main_page/bn
bosanski	https://www.mediawiki.org/wiki/Template:Main_page/bs
català	https://www.mediawiki.org/wiki/Template:Main_page/ca
	https://www.mediawiki.org/wiki/Template:Main_page/ckb
čeština	https://www.mediawiki.org/wiki/Template:Main_page/cs
dansk	https://www.mediawiki.org/wiki/Template:Main_page/da
Deutsch	https://www.mediawiki.org/wiki/Template:Main_page/de
español	https://www.mediawiki.org/wiki/Template:Main_page/es
	https://www.mediawiki.org/wiki/Template:Main_page/fa
suomi	https://www.mediawiki.org/wiki/Template:Main_page/fi
français	https://www.mediawiki.org/wiki/Template:Main_page/fr
	https://www.mediawiki.org/wiki/Template:Main_page/gu
	https://www.mediawiki.org/wiki/Template:Main_page/he
	https://www.mediawiki.org/wiki/Template:Main_page/hi
hrvatski	https://www.mediawiki.org/wiki/Template:Main_page/hr
magyar	https://www.mediawiki.org/wiki/Template:Main_page/hu
	https://www.mediawiki.org/wiki/Template:Main_page/hy
Bahasa Indonesia	https://www.mediawiki.org/wiki/Template:Main_page/id
italiano	https://www.mediawiki.org/wiki/Template:Main_page/it
	https://www.mediawiki.org/wiki/Template:Main_page/ja
Jawa	https://www.mediawiki.org/wiki/Template:Main_page/jv
	https://www.mediawiki.org/wiki/Template:Main_page/kk
	https://www.mediawiki.org/wiki/Template:Main_page/ko
Bahasa Melayu	https://www.mediawiki.org/wiki/Template:Main_page/ms
Mirandés	https://www.mediawiki.org/wiki/Template:Main_page/mwl
Nederlands	https://www.mediawiki.org/wiki/Template:Main_page/nl
polski	https://www.mediawiki.org/wiki/Template:Main_page/pl

Text	Url
português	https://www.mediawiki.org/wiki/Template:Main_page/pt
português do Brasil	https://www.mediawiki.org/wiki/Template:Main_page/pt-br
română	https://www.mediawiki.org/wiki/Template:Main_page/ro
	https://www.mediawiki.org/wiki/Template:Main_page/ru
sardu	https://www.mediawiki.org/wiki/Template:Main_page/sc
	https://www.mediawiki.org/wiki/Template:Main_page/si
slovenčina	https://www.mediawiki.org/wiki/Template:Main_page/sk
slovenščina	https://www.mediawiki.org/wiki/Template:Main_page/sl
Soomaaliga	https://www.mediawiki.org/wiki/Template:Main_page/so
shqip	https://www.mediawiki.org/wiki/Template:Main_page/sq
/ srpski	https://www.mediawiki.org/wiki/Template:Main_page/sr
svenska	https://www.mediawiki.org/wiki/Template:Main_page/sv
	https://www.mediawiki.org/wiki/Template:Main_page/th
Türkçe	https://www.mediawiki.org/wiki/Template:Main_page/tr
	https://www.mediawiki.org/wiki/Template:Main_page/uk
Tiếng Việt	https://www.mediawiki.org/wiki/Template:Main_page/vi
	https://www.mediawiki.org/wiki/Template:Main_page/yue
	https://www.mediawiki.org/wiki/Template:Main_page/zh
https: //www.mediawiki.org/w/index.php? title=MediaWiki&oldid=3878227	https://www.mediawiki.org/w/index.php?title= MediaWiki&oldid=3878227
Languages pages	/wiki/Category:Languages_pages
Creative Commons Attribution-ShareAlike License	https://creativecommons.org/licenses/by-sa/3.0/
Terms of Use	https://foundation.wikimedia.org/wiki/Special: MyLanguage/Policy:Terms_of_Use
Privacy policy	https://foundation.wikimedia.org/wiki/Privacy_policy
About MediaWiki.org	/wiki/Project:About
Disclaimers	/wiki/Project:General_disclaimer
Code of Conduct	https://www.mediawiki.org/wiki/Special: MyLanguage/Code_of_Conduct
Mobile view	//m.mediawiki.org/w/index.php?title=MediaWiki&mobileaction=toggle_view_mob
Developers	https://developer.wikimedia.org
Statistics	https://stats.wikimedia.org/#/www.mediawiki.org
Cookie statement	https://foundation.wikimedia.org/wiki/Cookie_statement
	https://wikimediafoundation.org/
	https://www.mediawiki.org/

4. Generar una tabla con cada enlace encontrado, indicando el texto que acompaña el enlace, y el número de veces que aparece un enlace con ese mismo objetivo.

```r
# Convirtiendo a data.frame y hallando el nº de repeticiones
concurrences <- as.data.frame(table(links_tables))

# Filtrando solo los enlaces existentes, es decir todos lo que tenga >0 en la columna freq y lo ordenam
links_data <- filter(concurrences, Freq > 0) %>% arrange(Text)
kable(links_data)
```

Text	Url	Freq
	/wiki/File:Wikimedia_Hackathon_Prague_2019_-_Group_Photo_-_CLK_-_cropped.jpg	1
	/wiki/Help:Contents	1
	/wiki/Help:Editing_pages	1
	/wiki/Help:Navigation	1
	/wiki/How_to_report_a_bug	1
	/wiki/MediaWiki	1
	/wiki/Professional_development_and_consulting	1
	/wiki/Project:Language_policy	1
	https://wikimediafoundation.org/	1
	https://www.mediawiki.org/	1
@mediawiki@wikis.world	https://wikis.world/@mediawiki	1
About MediaWiki.org	/wiki/Project:About	1
Afrikaans	https://www.mediawiki.org/wiki/Template:Main_page/af	1
asturianu	https://www.mediawiki.org/wiki/Template:Main_page/ast	1
Bahasa Indonesia	https://www.mediawiki.org/wiki/Template:Main_page/id	1
Bahasa Melayu	https://www.mediawiki.org/wiki/Template:Main_page/ms	1
bosanski	https://www.mediawiki.org/wiki/Template:Main_page/bs	1
català	https://www.mediawiki.org/wiki/Template:Main_page/ca	1
čeština	https://www.mediawiki.org/wiki/Template:Main_page/cs	1
Cite this page	/w/index.php?title=Special:CiteThisPage&page=MediaWiki&id=3878227&wpFormId	1
Code of Conduct	https://www.mediawiki.org/wiki/Special:MyLanguage/Code_of_Conduct	1
Code statistics	/wiki/Development_statistics	1
Communication	/wiki/Special:MyLanguage/Communication	1
Community portal	/wiki/Project:Help	1
configure	/wiki/Special:MyLanguage/Manual:System_administration	1
Contribute	/wiki/Special:MyLanguage/How_to_contribute	1
Contributions	/wiki/Special:MyContributions	1
Cookie statement	https://foundation.wikimedia.org/wiki/Cookie_statement	1
Create a book	/w/index.php?title=Special:Book&bookcmd=book_creator&referer=MediaWiki	1
Create account	/w/index.php?title=Special:CreateAccount&returnto=MediaWiki	2
Creative Commons Attribution-ShareAlike License	https://creativecommons.org/licenses/by-sa/3.0/	1
dansk	https://www.mediawiki.org/wiki/Template:Main_page/da	1
Deutsch	https://www.mediawiki.org/wiki/Template:Main_page/de	1
developer documentation	/wiki/Special:MyLanguage/Developer_hub	1
Developer portal	https://developer.wikimedia.org/	1
Developers	https://developer.wikimedia.org	1
Disclaimers	/wiki/Project:General_disclaimer	1
Discussion	/wiki/Talk:MediaWiki	1
Download	/wiki/Special:MyLanguage/Download	1
Download as PDF	/w/index.php?title=Special:DownloadAsPdf&page=MediaWiki&action=show-download-screen	1
EMWCon	/wiki/Special:MyLanguage/EMWCon_Spring_2023	1
English	#	1
English	/wiki/Template:Main_page	1
errors and symptoms	/wiki/Special:MyLanguage/Manual:Errors_and_symptoms	1
español	https://www.mediawiki.org/wiki/Template:Main_page/es	1
extensions	/wiki/Special:MyLanguage/Manual:Extensions	1
FAQ	/wiki/Special:MyLanguage/Manual:FAQ	2
Find out more	/wiki/Special:MyLanguage/Manual:What_is_MediaWiki%3F	1

Text	Url	Freq
français	https://www.mediawiki.org/wiki/Template:Main_page/fr	1
free and open	https://en.wikipedia.org/wiki/FLOSS	1
Get extensions	/wiki/Special:MyLanguage/Category:Extensions	1
Get involved	/wiki/Special:MyLanguage/How_to_contribute	1
Get MediaWiki	/wiki/Download	1
Get professional development and consulting	/wiki/Special:MyLanguage/Professional_development_and_consulting	1
hosting services	/wiki/Special:MyLanguage/Hosting_services	1
hrvatski	https://www.mediawiki.org/wiki/Template:Main_page/hr	1
https://www.mediawiki.org/w/index.php?title=MediaWiki&oldid=3878227	https://www.mediawiki.org/w/index.php?title=MediaWiki&oldid=3878227	1
if MediaWiki is right for you	/wiki/Special:MyLanguage/Manual:Deciding_whether_to_use_a_wiki_as_your_we	1
install	/wiki/Special:MyLanguage/Manual:Installation_guide	1
italiano	https://www.mediawiki.org/wiki/Template:Main_page/it	1
Jawa	https://www.mediawiki.org/wiki/Template:Main_page/jv	1
Jump to content	#bodyContent	1
Languages pages	/wiki/Category:Languages_pages	1
Learn how to edit a page	/wiki/Special:MyLanguage/Help:Editing_pages	1
Learn how to navigate	/wiki/Special:MyLanguage/Help:Navigation	1
learn more	/wiki/Help:Introduction	1
Learn more about reading, editing, and personal customization	/wiki/Special:MyLanguage/Help:Contents	1
Log in	/w/index.php?title=Special:UserLogin&returnto=MediaWiki	2
magyar	https://www.mediawiki.org/wiki/Template:Main_page/hu	1
Main page	/wiki/MediaWiki	1
Main Page	/wiki/MediaWiki	1
MediaWiki 1.35.10, 1.38.6 and 1.39.3 security releases	https://lists.wikimedia.org/hyperkitty/list/mediawiki-announce@lists.wikimedia.org/message/6UQBHI5FWLATD7QO7DI4YS54U7XSSLAN/	1
MediaWiki Stakeholders	/wiki/Special:MyLanguage/MediaWiki_Stakeholders%27_Group	1
Meta-Wiki	https://meta.wikimedia.org/wiki/Main_Page	1
Mirandés	https://www.mediawiki.org/wiki/Template:Main_page/mwl	1
Mobile view	//m.mediawiki.org/w/index.php?title=MediaWiki&mobileaction=toggle_view_mobil	1
More news	https://www.mediawiki.org/wiki/Special:MyLanguage/News	1
multilingual	/wiki/Special:MyLanguage/Localisation	1
Multilingual Wikisource	https://wikisource.org/wiki/Main_Page	1
Nederlands	https://www.mediawiki.org/wiki/Template:Main_page/nl	1
Other languages:	/wiki/Special:MyLanguage/Project:Language_policy	1
Page information	/w/index.php?title=MediaWiki&action=info	1
Permanent link	/w/index.php?title=MediaWiki&oldid=3878227	1
polski	https://www.mediawiki.org/wiki/Template:Main_page/pl	1
português	https://www.mediawiki.org/wiki/Template:Main_page/pt	1
português do Brasil	https://www.mediawiki.org/wiki/Template:Main_page/pt-br	1
Printable version	/w/index.php?title=MediaWiki&printable=yes	1
Privacy policy	https://foundation.wikimedia.org/wiki/Privacy_policy	1
Random page	/wiki/Special:Random	1
Read	/wiki/MediaWiki	2
Recent changes	/wiki/Special:RecentChanges	1
Related changes	/wiki/Special:RecentChangesLinked/MediaWiki	1
Report wrong software behavior or a feature proposal	/wiki/Special:MyLanguage/How_to_report_a_bug	1

Text	Url	Freq
română	https://www.mediawiki.org/wiki/Template:Main_page/ro	1
Sandbox	/wiki/Project:Sandbox	1
sardu	https://www.mediawiki.org/wiki/Template:Main_page/sc	1
Search	/wiki/Special:Search	1
shqip	https://www.mediawiki.org/wiki/Template:Main_page/sq	1
slovenčina	https://www.mediawiki.org/wiki/Template:Main_page/sk	1
slovenščina	https://www.mediawiki.org/wiki/Template:Main_page/sl	1
Soomaaliga	https://www.mediawiki.org/wiki/Template:Main_page/so	1
Special pages	/wiki/Special:SpecialPages	1
Statistics	https://stats.wikimedia.org/#/www.mediawiki.org	1
suomi	https://www.mediawiki.org/wiki/Template:Main_page/fi	1
support desk	/wiki/Project:Support_desk	1
Support desk	/wiki/Project:Support_desk	1
svenska	https://www.mediawiki.org/wiki/Template:Main_page/sv	1
Talk	/wiki/Special:MyTalk	1
Tech blog	//techblog.wikimedia.org/	1
Technical manual	/wiki/Special:MyLanguage/Manual:Contents	1
tens of thousands of websites	/wiki/Special:MyLanguage/Sites_using_MediaWiki	1
Terms of Use	https://foundation.wikimedia.org/wiki/Special:MyLanguage/Policy:Terms_of_Use	1
thousands of companies and organizations	/wiki/Special:MyLanguage/MediaWiki_testimonials	1
Tiếng Việt	https://www.mediawiki.org/wiki/Template:Main_page/vi	1
Translate content	/wiki/Special:LanguageStats	1
Türkçe	https://www.mediawiki.org/wiki/Template:Main_page/tr	1
Upload file	//commons.wikimedia.org/wiki/Special:UploadWizard	1
User help	/wiki/Special:MyLanguage/Help:Contents	1
View history	/w/index.php?title=MediaWiki&action=history	2
View livestream	https://www.youtube.com/watch?v=r0xEhy9bBFU	1
View source	/w/index.php?title=MediaWiki&action=edit	2
Village pump	/wiki/Project:Village_Pump	1
What links here	/wiki/Special:WhatLinksHere/MediaWiki	1
Wikibooks	https://en.wikibooks.org/wiki/Main_Page	1
Wikidata	https://www.wikidata.org/wiki/Wikidata:Main_Page	1
Wikidata item	https://www.wikidata.org/wiki/Special:EntityPage/Q5296	1
Wikimania	https://wikimania.wikimedia.org/wiki/Wikimania	1
Wikimedia Commons	https://commons.wikimedia.org/wiki/Main_Page	1
Wikimedia Developer Portal	https://developer.wikimedia.org	1
Wikimedia Hackathon	/wiki/Special:MyLanguage/Wikimedia_Hackathon_2023	1
Wikinews	https://en.wikinews.org/wiki/Main_Page	1
Wikipedia	https://en.wikipedia.org/wiki/Main_Page	1
Wikiquote	https://en.wikiquote.org/wiki/Main_Page	1
Wikisource	https://en.wikisource.org/wiki/Main_Page	1
Wikispecies	https://species.wikimedia.org/wiki/Main_Page	1
Wikiversity	https://en.wikiversity.org/wiki/Wikiversity:Main_Page	1
Wikivoyage	https://en.wikivoyage.org/wiki/Main_Page	1
Wiktionary	https://en.wiktionary.org/wiki/Wiktionary:Main_Page	1
	https://www.mediawiki.org/wiki/Template:Main_page/be	1
( )	https://www.mediawiki.org/wiki/Template:Main_page/be-tarask	1
	https://www.mediawiki.org/wiki/Template:Main_page/bg	1
	https://www.mediawiki.org/wiki/Template:Main_page/kk	1

Text	Url	Freq
	https://www.mediawiki.org/wiki/Template:Main_page/ru	1
/ srpski	https://www.mediawiki.org/wiki/Template:Main_page/sr	1
	https://www.mediawiki.org/wiki/Template:Main_page/uk	1
	https://www.mediawiki.org/wiki/Template:Main_page/hy	1
	https://www.mediawiki.org/wiki/Template:Main_page/he	1
	https://www.mediawiki.org/wiki/Template:Main_page/ar	1
	https://www.mediawiki.org/wiki/Template:Main_page/fa	1
	https://www.mediawiki.org/wiki/Template:Main_page/ckb	1
	https://www.mediawiki.org/wiki/Template:Main_page/hi	1
	https://www.mediawiki.org/wiki/Template:Main_page/bn	1
	https://www.mediawiki.org/wiki/Template:Main_page/gu	1
	https://www.mediawiki.org/wiki/Template:Main_page/si	1
	https://www.mediawiki.org/wiki/Template:Main_page/th	1
	https://www.mediawiki.org/wiki/Template:Main_page/ko	1
	https://www.mediawiki.org/wiki/Template:Main_page/zh	1
	https://www.mediawiki.org/wiki/Template:Main_page/ja	1
	https://www.mediawiki.org/wiki/Template:Main_page/yue	1

5. Para cada enlace, seguirlo e indicar si está activo (podemos usar el código de status HTTP al hacer una petición a esa URL).

```r
# Agregando la URL completa
base_url <- "https://www.mediawiki.org"

# Validando los carácteres al inicio de la columna URL y uniendolo con la url base
links_data$Final_Url <- case_when(
  # validando los carácteres al inicio de la URL
  grepl("^/wiki/|^/w/|^//", links_data$Url) | grepl("^#", links_data$Url) ~ paste0(base_url, links_data$
  grepl("^https", links_data$Url) ~ links_data$Url,
  TRUE ~ NA_character_
)

# Incorporando el valor status_code
# Demora 1 minuto
# Recorriendo los datos para incorporar HEAD y hallar el status_code
cat("En Proceso... \n")
```

```
## En Proceso...
```

```r
status_codes <- map(links_data$Final_Url, HEAD)
# Agregando una columna con el status_code respectivo
links_data$Status_Code <- map(status_codes, status_code)
# Convirtiendo de lista a character
links_data$Status_Code <- as.character(links_data$Status_Code)
kable(links_data)
```

Text	Url	Freq	Final_Url	Status_Code
	/wiki/File:Wikimedia_Hackathon_ Prague_2019_-_Group_Photo_-_CLK_-_cropped.jpg	1	https://www.mediawiki.org/wiki/ File:Wikimedia_Hackathon_ Prague_2019_-_Group_Photo_-_CLK_-_cropped.jpg	200
	/wiki/Help:Contents	1	https://www.mediawiki.org/wiki/ Help:Contents	200
	/wiki/Help:Editing_pages	1	https://www.mediawiki.org/wiki/ Help:Editing_pages	200
	/wiki/Help:Navigation	1	https://www.mediawiki.org/wiki/ Help:Navigation	200
	/wiki/How_to_report_a_bug	1	https://www.mediawiki.org/wiki/ How_to_report_a_bug	200
	/wiki/MediaWiki	1	https://www.mediawiki.org/wiki/ MediaWiki	200
	/wiki/Professional_development_and_consulting	1	https://www.mediawiki.org/wiki/ Professional_development_and_ consulting	200
	/wiki/Project:Language_policy	1	https://www.mediawiki.org/wiki/ Project:Language_policy	200
	https://wikimediafoundation.org/	1	https://wikimediafoundation.org/	200
	https://www.mediawiki.org/	1	https://www.mediawiki.org/	200
@mediawiki@wikis.world	https://wikis.world/@mediawiki	1	https://wikis.world/@mediawiki	200
About MediaWiki.org	/wiki/Project:About	1	https://www.mediawiki.org/wiki/ Project:About	200
Afrikaans	https://www.mediawiki.org/wiki/ Template:Main_page/af	1	https://www.mediawiki.org/wiki/ Template:Main_page/af	200
asturianu	https://www.mediawiki.org/wiki/ Template:Main_page/ast	1	https://www.mediawiki.org/wiki/ Template:Main_page/ast	200
Bahasa Indonesia	https://www.mediawiki.org/wiki/ Template:Main_page/id	1	https://www.mediawiki.org/wiki/ Template:Main_page/id	200
Bahasa Melayu	https://www.mediawiki.org/wiki/ Template:Main_page/ms	1	https://www.mediawiki.org/wiki/ Template:Main_page/ms	200
bosanski	https://www.mediawiki.org/wiki/ Template:Main_page/bs	1	https://www.mediawiki.org/wiki/ Template:Main_page/bs	200
català	https://www.mediawiki.org/wiki/ Template:Main_page/ca	1	https://www.mediawiki.org/wiki/ Template:Main_page/ca	200
čeština	https://www.mediawiki.org/wiki/ Template:Main_page/cs	1	https://www.mediawiki.org/wiki/ Template:Main_page/cs	200
Cite this page	/w/index.php?title=Special:CiteThisPage&page=MediaWiki&id=3878227&wpFormIdentifier=titleform	1	https://www.mediawiki.org/w/ index.php?title=Special: CiteThisPage&page= MediaWiki&id= 3878227&wpFormIdentifier= titleform	200
Code of Conduct	https: //www.mediawiki.org/wiki/Special: MyLanguage/Code_of_Conduct	1	https: //www.mediawiki.org/wiki/Special: MyLanguage/Code_of_Conduct	200
Code statistics	/wiki/Development_statistics	1	https://www.mediawiki.org/wiki/ Development_statistics	200
Communication	/wiki/Special:MyLanguage/Communication	1	https: //www.mediawiki.org/wiki/Special: MyLanguage/Communication	200

Text	Url	Freq	Final_Url	Status_Code
Community portal	/wiki/Project:Help	1	https://www.mediawiki.org/wiki/Project:Help	200
configure	/wiki/Special:MyLanguage/Manual:System_administration	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Manual:System_administration	200
Contribute	/wiki/Special:MyLanguage/How_to_contribute	1	https://www.mediawiki.org/wiki/Special:MyLanguage/How_to_contribute	200
Contributions	/wiki/Special:MyContributions	1	https://www.mediawiki.org/wiki/Special:MyContributions	200
Cookie statement	https://foundation.wikimedia.org/wiki/Cookie_statement	1	https://foundation.wikimedia.org/wiki/Cookie_statement	200
Create a book	/w/index.php?title=Special:Book&bookcmd=book_creator&referer=MediaWiki	1	https://www.mediawiki.org/w/index.php?title=Special:Book&bookcmd=book_creator&referer=MediaWiki	200
Create account	/w/index.php?title=Special:CreateAccount&returnto=MediaWiki	2	https://www.mediawiki.org/w/index.php?title=Special:CreateAccount&returnto=MediaWiki	200
Creative Commons Attribution-ShareAlike License	https://creativecommons.org/licenses/by-sa/3.0/	1	https://creativecommons.org/licenses/by-sa/3.0/	200
dansk	https://www.mediawiki.org/wiki/Template:Main_page/da	1	https://www.mediawiki.org/wiki/Template:Main_page/da	200
Deutsch	https://www.mediawiki.org/wiki/Template:Main_page/de	1	https://www.mediawiki.org/wiki/Template:Main_page/de	200
developer documentation	/wiki/Special:MyLanguage/Developer_hub	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Developer_hub	200
Developer portal	https://developer.wikimedia.org/	1	https://developer.wikimedia.org/	200
Developers	https://developer.wikimedia.org	1	https://developer.wikimedia.org	200
Disclaimers	/wiki/Project:General_disclaimer	1	https://www.mediawiki.org/wiki/Project:General_disclaimer	200
Discussion	/wiki/Talk:MediaWiki	1	https://www.mediawiki.org/wiki/Talk:MediaWiki	200
Download	/wiki/Special:MyLanguage/Download	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Download	200
Download as PDF	/w/index.php?title=Special:DownloadAsPdf&page=MediaWiki&action=show-download-screen	1	https://www.mediawiki.org/w/index.php?title=Special:DownloadAsPdf&page=MediaWiki&action=show-download-screen	200
EMWCon	/wiki/Special:MyLanguage/EMWCon_Spring_2023	1	https://www.mediawiki.org/wiki/Special:MyLanguage/EMWCon_Spring_2023	200
English	#	1	https://www.mediawiki.org#	200
English	/wiki/Template:Main_page	1	https://www.mediawiki.org/wiki/Template:Main_page	200
errors and symptoms	/wiki/Special:MyLanguage/Manual:Errors_and_symptoms	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Manual:Errors_and_symptoms	200

Text	Url	Freq	Final_Url	Status_Code
español	https://www.mediawiki.org/wiki/ Template:Main_page/es	1	https://www.mediawiki.org/wiki/ Template:Main_page/es	200
extensions	/wiki/Special:MyLanguage/Manual:Extensions	1	https: //www.mediawiki.org/wiki/Special: MyLanguage/Manual:Extensions	200
FAQ	/wiki/Special:MyLanguage/Manual:FAQ	2	https://www.mediawiki.org/wiki/ Special:MyLanguage/Manual:FAQ	200
Find out more	/wiki/Special:MyLanguage/Manual:What_is_MediaWiki%3F	1	https://www.mediawiki.org/wiki/ Special:MyLanguage/Manual: What_is_MediaWiki%3F	200
français	https://www.mediawiki.org/wiki/ Template:Main_page/fr	1	https://www.mediawiki.org/wiki/ Template:Main_page/fr	200
free and open	https: //en.wikipedia.org/wiki/FLOSS	1	https: //en.wikipedia.org/wiki/FLOSS	200
Get extensions	/wiki/Special:MyLanguage/Category:Extensions	1	https: //www.mediawiki.org/wiki/Special: MyLanguage/Category:Extensions	200
Get involved	/wiki/Special:MyLanguage/How_to_contribute	1	https: //www.mediawiki.org/wiki/Special: MyLanguage/How_to_contribute	200
Get MediaWiki	/wiki/Download	1	https://www.mediawiki.org/wiki/ Download	200
Get professional development and consulting	/wiki/Special:MyLanguage/Professional_development_and_consulting	1	https://www.mediawiki.org/wiki/ Special:MyLanguage/Professional_ development_and_consulting	200
hosting services	/wiki/Special:MyLanguage/Hosting_services	1	https: //www.mediawiki.org/wiki/Special: MyLanguage/Hosting_services	200
hrvatski	https://www.mediawiki.org/wiki/ Template:Main_page/hr	1	https://www.mediawiki.org/wiki/ Template:Main_page/hr	200
https://www. mediawiki.org/w/ index.php?title= MediaWiki&oldid= 3878227	https://www.mediawiki.org/w/ index.php?title= MediaWiki&oldid=3878227	1	https://www.mediawiki.org/w/ index.php?title= MediaWiki&oldid=3878227	200
if MediaWiki is right for you	/wiki/Special:MyLanguage/Manual:Deciding_whether_to_use_a_wiki_as_your_website_type	1	https://www.mediawiki.org/wiki/ Special:MyLanguage/Manual: Deciding_whether_to_use_a_ wiki_as_your_website_type	200
install	/wiki/Special:MyLanguage/Manual:Installation_guide	1	https://www.mediawiki.org/wiki/ Special:MyLanguage/Manual: Installation_guide	200
italiano	https://www.mediawiki.org/wiki/ Template:Main_page/it	1	https://www.mediawiki.org/wiki/ Template:Main_page/it	200
Jawa	https://www.mediawiki.org/wiki/ Template:Main_page/jv	1	https://www.mediawiki.org/wiki/ Template:Main_page/jv	200
Jump to content	#bodyContent	1	https://www.mediawiki.org# bodyContent	200
Languages pages	/wiki/Category:Languages_pages	1	https://www.mediawiki.org/wiki/ Category:Languages_pages	200

Text	Url	Freq	Final_Url	Status_Code
Learn how to edit a page	/wiki/Special:MyLanguage/Help:Editing_pages	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Help:Editing_pages	200
Learn how to navigate	/wiki/Special:MyLanguage/Help:Navigation	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Help:Navigation	200
learn more	/wiki/Help:Introduction	1	https://www.mediawiki.org/wiki/Help:Introduction	404
Learn more about reading, editing, and personal customization	/wiki/Special:MyLanguage/Help:Contents	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Help:Contents	200
Log in	/w/index.php?title=Special:UserLogin&returnto=MediaWiki	2	https://www.mediawiki.org/w/index.php?title=Special:UserLogin&returnto=MediaWiki	200
magyar	https://www.mediawiki.org/wiki/Template:Main_page/hu	1	https://www.mediawiki.org/wiki/Template:Main_page/hu	200
Main page	/wiki/MediaWiki	1	https://www.mediawiki.org/wiki/MediaWiki	200
Main Page	/wiki/MediaWiki	1	https://www.mediawiki.org/wiki/MediaWiki	200
MediaWiki 1.35.10, 1.38.6 and 1.39.3 security releases	https://lists.wikimedia.org/hyperkitty/list/mediawiki-announce@lists.wikimedia.org/message/6UQBHI5FWLATD7QO7DI4YS54U7XSSLAN/	1	https://lists.wikimedia.org/hyperkitty/list/mediawiki-announce@lists.wikimedia.org/message/6UQBHI5FWLATD7QO7DI4YS54U7XSSLAN/	200
MediaWiki Stakeholders	/wiki/Special:MyLanguage/MediaWiki_Stakeholders%27_Group	1	https://www.mediawiki.org/wiki/Special:MyLanguage/MediaWiki_Stakeholders%27_Group	200
Meta-Wiki	https://meta.wikimedia.org/wiki/Main_Page	1	https://meta.wikimedia.org/wiki/Main_Page	200
Mirandés	https://www.mediawiki.org/wiki/Template:Main_page/mwl	1	https://www.mediawiki.org/wiki/Template:Main_page/mwl	200
Mobile view	//m.mediawiki.org/w/index.php?title=MediaWiki&mobileaction=toggle_view_mobile	1	https://m.mediawiki.org/w/index.php?title=MediaWiki&mobileaction=toggle_view_mobile	404
More news	https://www.mediawiki.org/wiki/Special:MyLanguage/News	1	https://www.mediawiki.org/wiki/Special:MyLanguage/News	200
multilingual	/wiki/Special:MyLanguage/Localisation	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Localisation	200
Multilingual Wikisource	https://wikisource.org/wiki/Main_Page	1	https://wikisource.org/wiki/Main_Page	200
Nederlands	https://www.mediawiki.org/wiki/Template:Main_page/nl	1	https://www.mediawiki.org/wiki/Template:Main_page/nl	200
Other languages:	/wiki/Special:MyLanguage/Project:Language_policy	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Project:Language_policy	200
Page information	/w/index.php?title=MediaWiki&action=info	1	https://www.mediawiki.org/w/index.php?title=MediaWiki&action=info	200

Text	Url	Freq	Final_Url	Status_Code
Permanent link	/w/index.php?title=MediaWiki&oldid=3878227	1	https://www.mediawiki.org/w/index.php?title=MediaWiki&oldid=3878227	200
polski	https://www.mediawiki.org/wiki/Template:Main_page/pl	1	https://www.mediawiki.org/wiki/Template:Main_page/pl	200
português	https://www.mediawiki.org/wiki/Template:Main_page/pt	1	https://www.mediawiki.org/wiki/Template:Main_page/pt	200
português do Brasil	https://www.mediawiki.org/wiki/Template:Main_page/pt-br	1	https://www.mediawiki.org/wiki/Template:Main_page/pt-br	200
Printable version	/w/index.php?title=MediaWiki&printable=yes	1	https://www.mediawiki.org/w/index.php?title=MediaWiki&printable=yes	200
Privacy policy	https://foundation.wikimedia.org/wiki/Privacy_policy	1	https://foundation.wikimedia.org/wiki/Privacy_policy	200
Random page	/wiki/Special:Random	1	https://www.mediawiki.org/wiki/Special:Random	200
Read	/wiki/MediaWiki	2	https://www.mediawiki.org/wiki/MediaWiki	200
Recent changes	/wiki/Special:RecentChanges	1	https://www.mediawiki.org/wiki/Special:RecentChanges	200
Related changes	/wiki/Special:RecentChangesLinked/MediaWiki	1	https://www.mediawiki.org/wiki/Special:RecentChangesLinked/MediaWiki	200
Report wrong software behavior or a feature proposal	/wiki/Special:MyLanguage/How_to_report_a_bug	1	https://www.mediawiki.org/wiki/Special:MyLanguage/How_to_report_a_bug	200
română	https://www.mediawiki.org/wiki/Template:Main_page/ro	1	https://www.mediawiki.org/wiki/Template:Main_page/ro	200
Sandbox	/wiki/Project:Sandbox	1	https://www.mediawiki.org/wiki/Project:Sandbox	200
sardu	https://www.mediawiki.org/wiki/Template:Main_page/sc	1	https://www.mediawiki.org/wiki/Template:Main_page/sc	200
Search	/wiki/Special:Search	1	https://www.mediawiki.org/wiki/Special:Search	200
shqip	https://www.mediawiki.org/wiki/Template:Main_page/sq	1	https://www.mediawiki.org/wiki/Template:Main_page/sq	200
slovenčina	https://www.mediawiki.org/wiki/Template:Main_page/sk	1	https://www.mediawiki.org/wiki/Template:Main_page/sk	200
slovenščina	https://www.mediawiki.org/wiki/Template:Main_page/sl	1	https://www.mediawiki.org/wiki/Template:Main_page/sl	200
Soomaaliga	https://www.mediawiki.org/wiki/Template:Main_page/so	1	https://www.mediawiki.org/wiki/Template:Main_page/so	200
Special pages	/wiki/Special:SpecialPages	1	https://www.mediawiki.org/wiki/Special:SpecialPages	200
Statistics	https://stats.wikimedia.org/#/www.mediawiki.org	1	https://stats.wikimedia.org/#/www.mediawiki.org	200
suomi	https://www.mediawiki.org/wiki/Template:Main_page/fi	1	https://www.mediawiki.org/wiki/Template:Main_page/fi	200
support desk	/wiki/Project:Support_desk	1	https://www.mediawiki.org/wiki/Project:Support_desk	200

Text	Url	Freq	Final_Url	Status_Code
Support desk	/wiki/Project:Support_desk	1	https://www.mediawiki.org/wiki/Project:Support_desk	200
svenska	https://www.mediawiki.org/wiki/Template:Main_page/sv	1	https://www.mediawiki.org/wiki/Template:Main_page/sv	200
Talk	/wiki/Special:MyTalk	1	https://www.mediawiki.org/wiki/Special:MyTalk	200
Tech blog	//techblog.wikimedia.org/	1	https://www.mediawiki.org/techblog.wikimedia.org/	404
Technical manual	/wiki/Special:MyLanguage/Manual:Contents	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Manual:Contents	200
tens of thousands of websites	/wiki/Special:MyLanguage/Sites_using_MediaWiki	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Sites_using_MediaWiki	200
Terms of Use	https://foundation.wikimedia.org/wiki/Special:MyLanguage/Policy:Terms_of_Use	1	https://foundation.wikimedia.org/wiki/Special:MyLanguage/Policy:Terms_of_Use	200
thousands of companies and organizations	/wiki/Special:MyLanguage/MediaWiki_testimonials	1	https://www.mediawiki.org/wiki/Special:MyLanguage/MediaWiki_testimonials	200
Tiếng Việt	https://www.mediawiki.org/wiki/Template:Main_page/vi	1	https://www.mediawiki.org/wiki/Template:Main_page/vi	200
Translate content	/wiki/Special:LanguageStats	1	https://www.mediawiki.org/wiki/Special:LanguageStats	200
Türkçe	https://www.mediawiki.org/wiki/Template:Main_page/tr	1	https://www.mediawiki.org/wiki/Template:Main_page/tr	200
Upload file	//commons.wikimedia.org/wiki/Special:UploadWizard	1	https://www.mediawiki.org/commons.wikimedia.org/wiki/Special:UploadWizard	404
User help	/wiki/Special:MyLanguage/Help:Contents	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Help:Contents	200
View history	/w/index.php?title=MediaWiki&action=history	2	https://www.mediawiki.org/w/index.php?title=MediaWiki&action=history	200
View livestream	https://www.youtube.com/watch?v=r0xEhy9bBFU	1	https://www.youtube.com/watch?v=r0xEhy9bBFU	200
View source	/w/index.php?title=MediaWiki&action=edit	2	https://www.mediawiki.org/w/index.php?title=MediaWiki&action=edit	200
Village pump	/wiki/Project:Village_Pump	1	https://www.mediawiki.org/wiki/Project:Village_Pump	200
What links here	/wiki/Special:WhatLinksHere/MediaWiki	1	https://www.mediawiki.org/wiki/Special:WhatLinksHere/MediaWiki	200
Wikibooks	https://en.wikibooks.org/wiki/Main_Page	1	https://en.wikibooks.org/wiki/Main_Page	200
Wikidata	https://www.wikidata.org/wiki/Wikidata:Main_Page	1	https://www.wikidata.org/wiki/Wikidata:Main_Page	200
Wikidata item	https://www.wikidata.org/wiki/Special:EntityPage/Q5296	1	https://www.wikidata.org/wiki/Special:EntityPage/Q5296	200
Wikimania	https://wikimania.wikimedia.org/wiki/Wikimania	1	https://wikimania.wikimedia.org/wiki/Wikimania	200

Text	Url	Freq	Final_Url	Status_Code
Wikimedia Commons	https://commons.wikimedia.org/wiki/Main_Page	1	https://commons.wikimedia.org/wiki/Main_Page	200
Wikimedia Developer Portal	https://developer.wikimedia.org	1	https://developer.wikimedia.org	200
Wikimedia Hackathon	/wiki/Special:MyLanguage/Wikimedia_Hackathon_2023	1	https://www.mediawiki.org/wiki/Special:MyLanguage/Wikimedia_Hackathon_2023	200
Wikinews	https://en.wikinews.org/wiki/Main_Page	1	https://en.wikinews.org/wiki/Main_Page	200
Wikipedia	https://en.wikipedia.org/wiki/Main_Page	1	https://en.wikipedia.org/wiki/Main_Page	200
Wikiquote	https://en.wikiquote.org/wiki/Main_Page	1	https://en.wikiquote.org/wiki/Main_Page	200
Wikisource	https://en.wikisource.org/wiki/Main_Page	1	https://en.wikisource.org/wiki/Main_Page	200
Wikispecies	https://species.wikimedia.org/wiki/Main_Page	1	https://species.wikimedia.org/wiki/Main_Page	200
Wikiversity	https://en.wikiversity.org/wiki/Wikiversity:Main_Page	1	https://en.wikiversity.org/wiki/Wikiversity:Main_Page	200
Wikivoyage	https://en.wikivoyage.org/wiki/Main_Page	1	https://en.wikivoyage.org/wiki/Main_Page	200
Wiktionary	https://en.wiktionary.org/wiki/Wiktionary:Main_Page	1	https://en.wiktionary.org/wiki/Wiktionary:Main_Page	200
	https://www.mediawiki.org/wiki/Template:Main_page/be	1	https://www.mediawiki.org/wiki/Template:Main_page/be	200
( )	https://www.mediawiki.org/wiki/Template:Main_page/be-tarask	1	https://www.mediawiki.org/wiki/Template:Main_page/be-tarask	200
	https://www.mediawiki.org/wiki/Template:Main_page/bg	1	https://www.mediawiki.org/wiki/Template:Main_page/bg	200
	https://www.mediawiki.org/wiki/Template:Main_page/kk	1	https://www.mediawiki.org/wiki/Template:Main_page/kk	200
	https://www.mediawiki.org/wiki/Template:Main_page/ru	1	https://www.mediawiki.org/wiki/Template:Main_page/ru	200
/ srpski	https://www.mediawiki.org/wiki/Template:Main_page/sr	1	https://www.mediawiki.org/wiki/Template:Main_page/sr	200
	https://www.mediawiki.org/wiki/Template:Main_page/uk	1	https://www.mediawiki.org/wiki/Template:Main_page/uk	200
	https://www.mediawiki.org/wiki/Template:Main_page/hy	1	https://www.mediawiki.org/wiki/Template:Main_page/hy	200
	https://www.mediawiki.org/wiki/Template:Main_page/he	1	https://www.mediawiki.org/wiki/Template:Main_page/he	200
	https://www.mediawiki.org/wiki/Template:Main_page/ar	1	https://www.mediawiki.org/wiki/Template:Main_page/ar	200
	https://www.mediawiki.org/wiki/Template:Main_page/fa	1	https://www.mediawiki.org/wiki/Template:Main_page/fa	200
	https://www.mediawiki.org/wiki/Template:Main_page/ckb	1	https://www.mediawiki.org/wiki/Template:Main_page/ckb	200
	https://www.mediawiki.org/wiki/Template:Main_page/hi	1	https://www.mediawiki.org/wiki/Template:Main_page/hi	200
	https://www.mediawiki.org/wiki/Template:Main_page/bn	1	https://www.mediawiki.org/wiki/Template:Main_page/bn	200

Text	Url	Freq	Final_Url	Status_Code
	https://www.mediawiki.org/wiki/ Template:Main_page/gu	1	https://www.mediawiki.org/wiki/ Template:Main_page/gu	200
	https://www.mediawiki.org/wiki/ Template:Main_page/si	1	https://www.mediawiki.org/wiki/ Template:Main_page/si	200
	https://www.mediawiki.org/wiki/ Template:Main_page/th	1	https://www.mediawiki.org/wiki/ Template:Main_page/th	200
	https://www.mediawiki.org/wiki/ Template:Main_page/ko	1	https://www.mediawiki.org/wiki/ Template:Main_page/ko	200
	https://www.mediawiki.org/wiki/ Template:Main_page/zh	1	https://www.mediawiki.org/wiki/ Template:Main_page/zh	200
	https://www.mediawiki.org/wiki/ Template:Main_page/ja	1	https://www.mediawiki.org/wiki/ Template:Main_page/ja	200
	https://www.mediawiki.org/wiki/ Template:Main_page/yue	1	https://www.mediawiki.org/wiki/ Template:Main_page/yue	200

```r
cat("Proceso terminado \n")
```

```
## Proceso terminado
```

Pregunta 2

1. Un histograma con la frecuencia de aparición de los enlaces, pero separado por URLs absolutas (con "http…") y URLs relativas

```r
# Validando si la URL es absoluta o relativa
links_data$Url_type <- ifelse(grepl("^http", links_data$Url), "URL_Absoluta", "URL_Relativa")

# Agregando la gráfica histograma general
histogram <- ggplot(links_data, aes(x=Freq)) +
  geom_histogram(aes(fill=Url_type),
                 binwidth = 1,
                 position = "dodge") +
  # Cambiando el nombre de la leyenda
  scale_fill_manual(name ="Tipo de Url", values=c("#FF5733", "#6B33FF")) +
  labs(x = "Frecuencia de apariciones", y = "N° de enlaces", title ="Enlaces MediaWiki") +
  scale_y_continuous(limits = c(0, 100),
                     breaks = seq(0, 100, 10),
                     expand = c(0, 0)) +
  theme_light() +
  theme(plot.title = element_text(hjust = 0.5, size = 12)) +
  # Incorporando valores a cada barra
  geom_text(aes(x = Freq, y = ..count.., label = ..count..,group = Url_type),
            stat = "count", vjust= -0.5, hjust = 0.7, size=4)

# Mostrando el histograma

 grid.arrange(histogram, ncol=1)
```

```
## Warning: The dot-dot notation (`..count..`) was deprecated in ggplot2 3.4.0.
## i Please use `after_stat(count)` instead.
```

```
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```
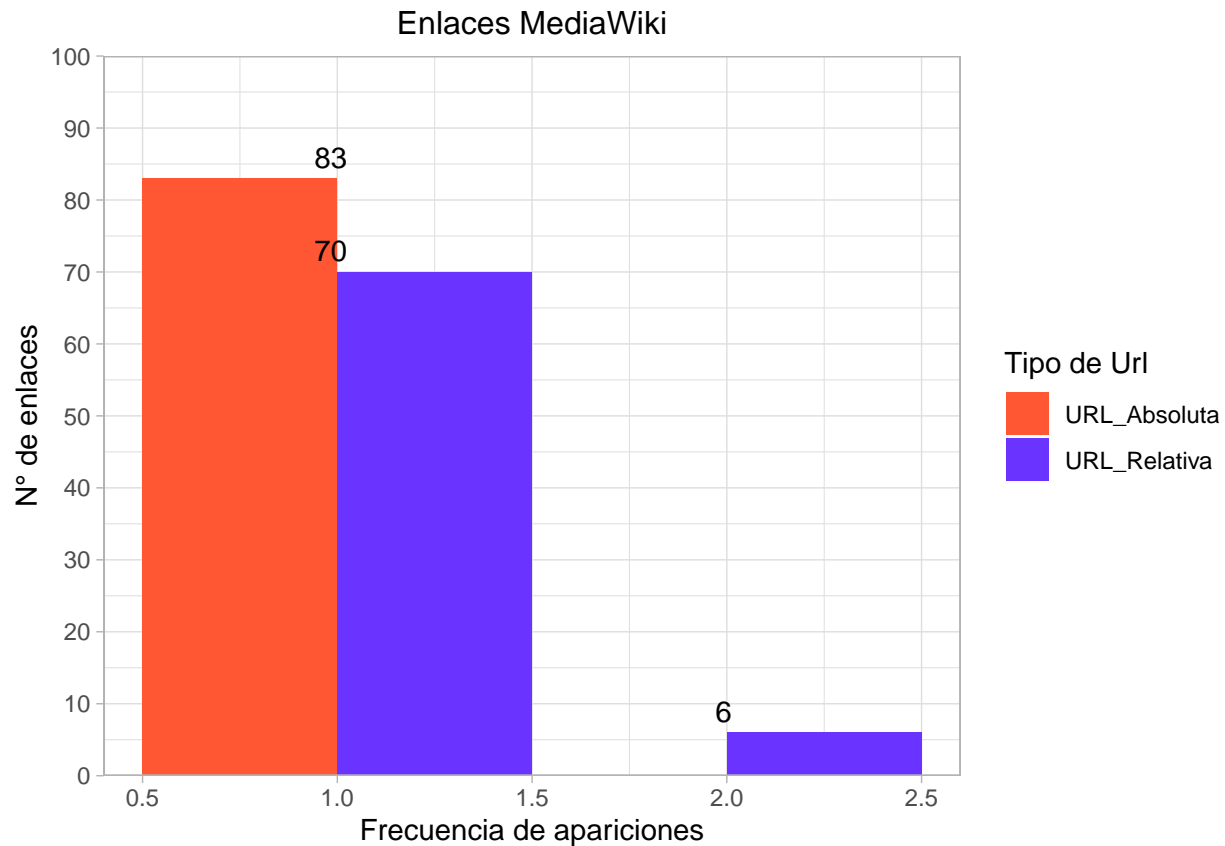

2. Un gráfico de barras indicando la suma de enlaces que apuntan a otros dominios o servicios (distinto a https://www.mediawiki.org en el caso de ejemplo) vs. la suma de los otros enlaces.

```
# Añadiendo si el link es interno o externo
links_data$Domain_Type <- ifelse(grepl("^https://www.mediawiki.org", links_data$Final_Url), "Interno",

# Hallando la frecuencia
freq_link <- table(links_data$Domain_Type)

# Hallando la frecuencia
freq_link <- table(links_data$Domain_Type)

# Mostrando gráfica de barras
bar_graphic <- ggplot(data.frame(Domain_Type = names(freq_link), count = as.numeric(freq_link)), aes(x=
  geom_bar(stat="identity") +
  labs(title="Enlaces Internos vs Externos", x="Tipo de enlace", y="Cantidad") +
  theme_light() +
  # Cambiando el nombre de la leyenda
  scale_fill_manual( name = "Tipo de dominio", values = c("#6833FF", "#D433FF")) +
  scale_y_continuous(limits = c(0, 150), breaks = seq(0, 150, 20)) +
  # Incorporando valores en cada barra
  geom_text(aes(label=count), vjust=-0.5, size=5) +
  theme(plot.title = element_text(hjust = 0.5, size = 18))
```

```
grid.arrange(bar_graphic, ncol=1)
```

Enlaces Internos vs Externos
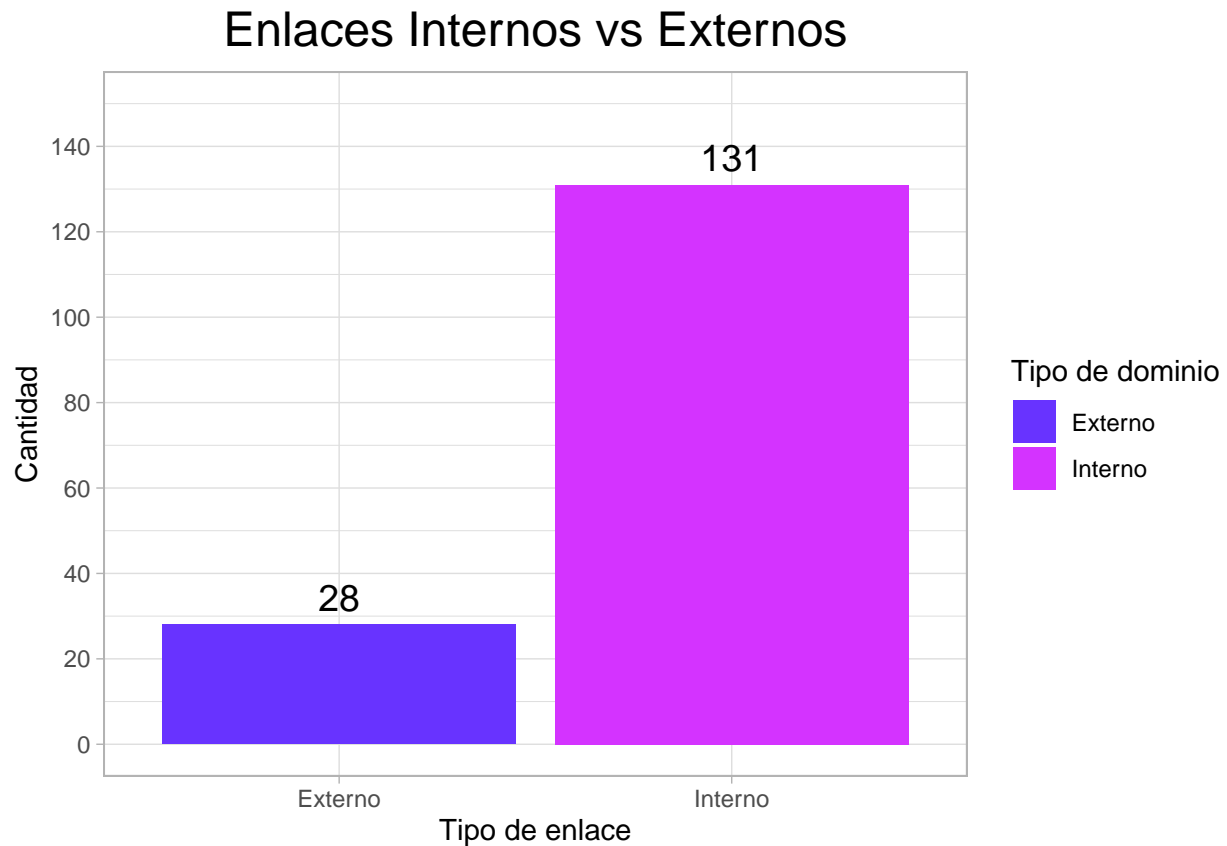
3. Un gráfico de tarta (pie chart) indicando los porcentajes de Status de nuestro análisis.

```
# Hallando la frecuencia del status_code
code_freq <- table(links_data$Status_Code)
# Hallando el porcentaje en % ( o.9 a 90%)
percentage_value <- round(prop.table(code_freq) * 100, 2)
percentage_value <- as.numeric(percentage_value)
# data
code_data <- data.frame(Status_Code = names(code_freq),Percentage = percentage_value)

# Mostrando pie chart
chart_graphic <- ggplot(code_data, aes(x="", y=Percentage, fill=Status_Code)) +
  geom_bar(width = 1, stat = "identity") +
  coord_polar("y", start=0) +
  ggtitle("Códigos de estados de respuesta") +
  theme_void() +
  geom_text(aes(label = paste0(Percentage, "%")), position = position_stack(vjust = 0.5), size = 3) +
  scale_fill_manual(name = "Código de respuesta" ,values=c("#cf3a69", "#7caa96")) +
  theme(plot.title = element_text(hjust = 0.5, vjust = 1, size = 16))

# Mostrando la gráfica
grid.arrange(chart_graphic, ncol=1)
```
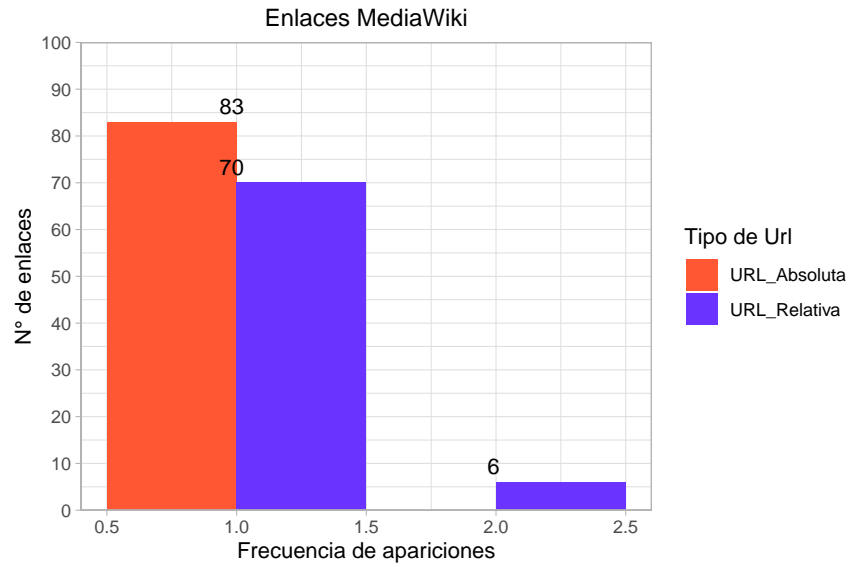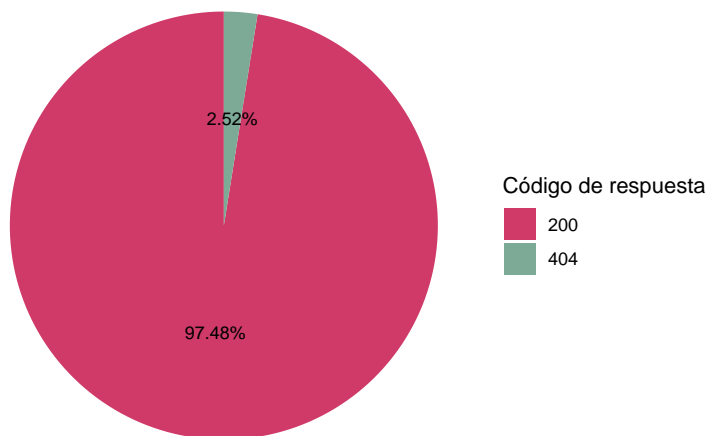
Códigos de estados de respuesta
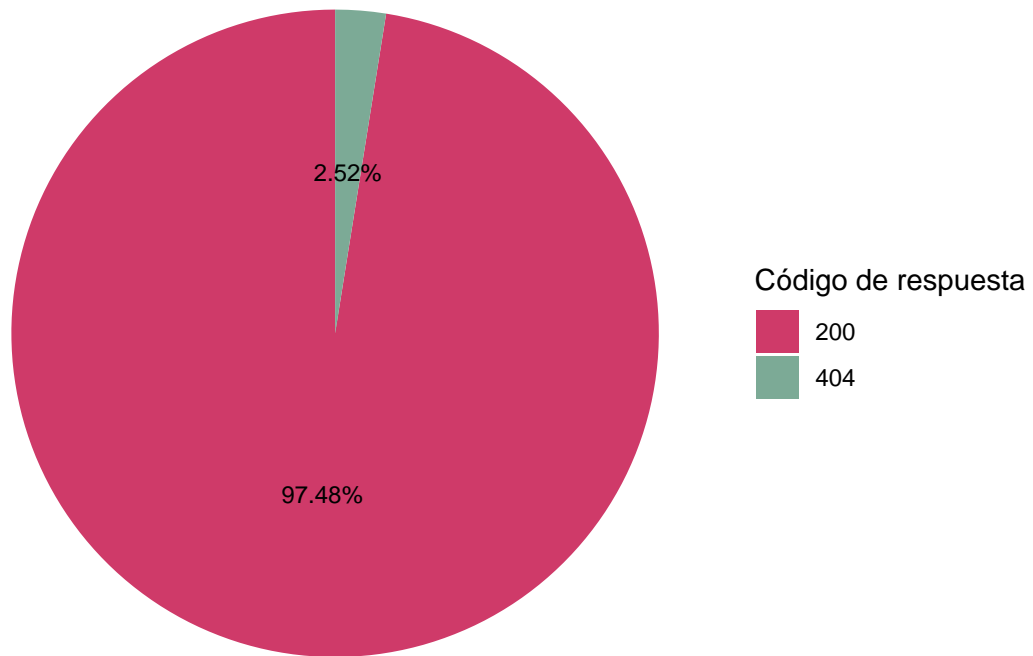

```
# Mostrando las tres gráficas en una sola figura
grid.arrange(histogram, bar_graphic, chart_graphic, ncol=1)
```

Enlaces MediaWiki

Enlaces Internos vs Externos
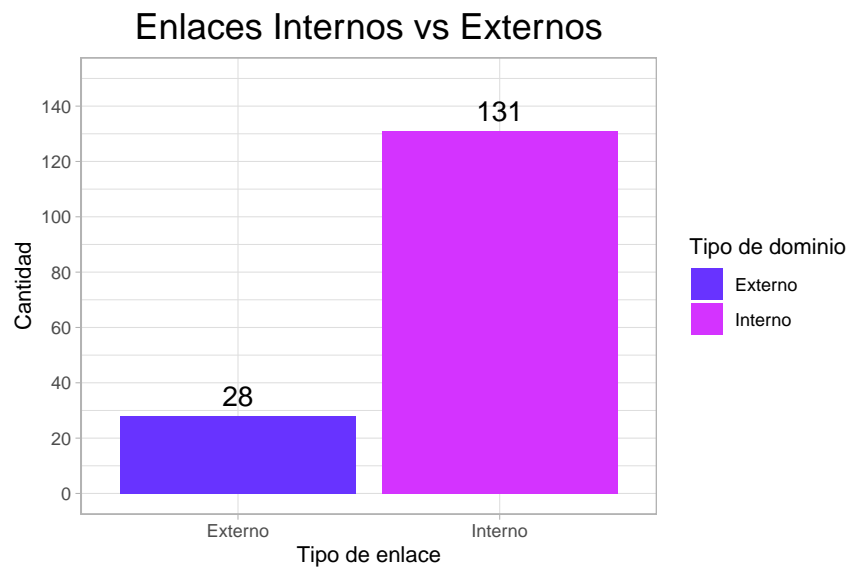
Códigos de estados de respuesta

```
cat("Fin\n")
```

```
## Fin
```

```
# Visualización de la tabla final
View(links_data)
```