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.

Resolución:

Se utiliza la función **htmlParse()** para procesar el contenido de la url https://www.mediawiki.org/wiki/MediaWiki. La resolución se encuentra en el siguiente código.

```
# 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)</pre>
```

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

Resolución:

El título de la web, se ubica con la función **xpathSApply()** que nos ayuda a extraer la información. Esta función tine la variable **xpath** que selecciona todo los elementos "title" y el parámeto xmlValue brinda el valor del elemento "title". El resulatdo es **MediaWiki** y todo lo mencionado se realizó con el siguiente código.

```
# 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")</pre>
```

Título de la Página Web:

```
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.

Resolución:

Para obtener la url y el texto de la etiqueta, se utilizó la función **xpathSApply()** para extraer la información, donde se utiliza el parámetro **xmlValue** para extraer el texto de la etiqueta y el parámetro **xmlGetAttr** para obtener la url de la etiqueta.

Por otro lado, se realiza las validaciones si en caso hubiese valores null para incorporar el valor NA a tráves de la función **sapply()**. Luego como los elementos se encuentran en una lista se procede a convertirlos a vector con la función **unlist()** para realizar manipulaciones posteriormente. También, se valido que existen algunos textos de la etiqueta que tienen al principio un espacio y son iguales a otras que no lo tienen, se realizó la eliminación del espacio con la función **str_replace()**.

Finalmente se crea una tabla con los textos (columna Text) y urls (columna Url) de la etiqueta con la función data.frame(), esta se guarda en la variable links_tables.

A continuación se muestra el código con el cual se realizó lo mencionado.

```
# Extrayendo los nombres de la etiqueta <a></a>
name_hyperlink <- xpathSApply(parsedHtml, "//a", xmlValue)</pre>
#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)</pre>
# Validando si los valores del atributo href tienen valores null
null_href <- sapply(url_hyperlink, is.null)</pre>
# Reemplazando los valores null por el valor NA
name_hyperlink[null_name] <- NA</pre>
url_hyperlink[null_href] <- NA</pre>
# Convirtiendo de lista a vector los nombres y el valor del href del la etiqueta <a></a>
name_hyperlink <- unlist(name_hyperlink)</pre>
url_hyperlink <- unlist(url_hyperlink)</pre>
# Se valida que hay texto que tiene al principio espacios pero son iquales
# Se realiza la eliminación de los espacios al inicio
name hyperlink <- str replace(name hyperlink, "^\\s+", "")</pre>
# Creando una tabla con el texto y su respectivo url del enlace
links_tables <- data.frame(Text = name_hyperlink, Url = url_hyperlink) %>% arrange(Text)
# Visualización de la tabla en el archivo pdf
kable(links_tables)
```

Text	Url
	/wiki/MediaWiki
	/wiki/File:Wikimedia_Hackathon_Prague_2019
	_Group_PhotoCLKcropped.jpg
	/wiki/Professional_development_and_consulting
	/wiki/Help:Navigation
	/wiki/Help:Editing_pages
	/wiki/Help:Contents
	/wiki/How_to_report_a_bug
	/wiki/Project:Language_policy
	https://wikimediafoundation.org/

Text	Url
	https://www.mediawiki.org/
@mediawiki@wikis.world	https://wikis.world/@mediawiki
About MediaWiki.org	/wiki/Project:About
Afrikaans	https://www.mediawiki.org/wiki/Template:Main_page/af
Bahasa Indonesia	https://www.mediawiki.org/wiki/Template:Main_page/id
Bahasa Melayu	https://www.mediawiki.org/wiki/Template:Main_page/ms
Cite this page	/w/index.php?title=Special:CiteThisPage&page=MediaWiki&id=3878227&wpFe
Code of Conduct	https://www.mediawiki.org/wiki/Special:
esde of conduct	MyLanguage/Code_of_Conduct
Code statistics	/wiki/Development_statistics
Communication	/wiki/Special:MyLanguage/Communication
Community portal	/wiki/Project:Help
Contribute	/wiki/Froject.Help /wiki/Special:MyLanguage/How_to_contribute
Contribute Contributions	/wiki/Special:MyContributions
Cookie statement	https://foundation.wikimedia.org/wiki/Cookie_statement
Create a book	/w/index.php?title=Special:Book&bookcmd=book_creator&referer=MediaWiki
Create a book Create account	/w/index.php?title=Special:CreateAccount&returnto=MediaWiki
Create account Create account	/w/index.php?title=Special:CreateAccount&returnto=MediaWiki
Creative Commons	https://creativecommons.org/licenses/by-sa/3.0/
Attribution-ShareAlike License	nutps.//creativecommons.org/ncenses/by-sa/5.0/
Deutsch	https://www.mediawiki.org/wiki/Template:Main_page/de
Deutsch Developer portal	https://developer.wikimedia.org/
Developers	https://developer.wikimedia.org
Developers Disclaimers	
Discussion	/wiki/Project:General_disclaimer /wiki/Talk:MediaWiki
Discussion Download	
	/wiki/Special:MyLanguage/Download
Download as PDF	/w/index.php?title=Special:DownloadAsPdf&page=MediaWiki&action=show-
EMINO	download-screen
EMWCon	/wiki/Special:MyLanguage/EMWCon_Spring_2023
English	# / :1:/TD
English	/wiki/Template:Main_page
FAQ	/wiki/Special:MyLanguage/Manual:FAQ
FAQ	/wiki/Special:MyLanguage/Manual:FAQ
Find out more	/wiki/Special:MyLanguage/Manual:What_is_MediaWiki%3F
Get MediaWiki	/wiki/Download
Get extensions	/wiki/Special:MyLanguage/Category:Extensions
Get involved	/wiki/Special:MyLanguage/How_to_contribute
Get professional development and	/wiki/Special:MyLanguage/Professional_development_and_consulting
consulting	1 // 1 1 / 1/m 1 3.5.1.
Jawa	https://www.mediawiki.org/wiki/Template:Main_page/jv
Jump to content	#bodyContent
Languages pages	/wiki/Category:Languages_pages
Learn how to edit a page	/wiki/Special:MyLanguage/Help:Editing_pages
Learn how to navigate	/wiki/Special:MyLanguage/Help:Navigation
Learn more about reading, editing,	/wiki/Special:MyLanguage/Help:Contents
and personal customization	/ /- 1
Log in	/w/index.php?title=Special:UserLogin&returnto=MediaWiki
Log in	/w/index.php?title=Special:UserLogin&returnto=MediaWiki
Main Page	/wiki/MediaWiki
Main page	/wiki/MediaWiki

Text	Url
MediaWiki 1.35.10, 1.38.6 and 1.39.3	https://lists.wikimedia.org/hyperkitty/list/mediawiki-
security releases	announce@lists.wikimedia.org/message/
bootiff, releases	6UQBHI5FWLATD7QO7DI4YS54U7XSSLAN/
MediaWiki Stakeholders	/wiki/Special:MyLanguage/MediaWiki_Stakeholders%27_Group
Meta-Wiki	https://meta.wikimedia.org/wiki/Main_Page
Mirandés	https://www.mediawiki.org/wiki/Template:Main_page/mwl
Mobile view	//m.mediawiki.org/w/index.php?title=MediaWiki&mobileaction=toggle_view_mo
More news	https://www.mediawiki.org/wiki/Special:MyLanguage/News
Multilingual Wikisource	https://wikisource.org/wiki/Main_Page
Nederlands	https://www.mediawiki.org/wiki/Template:Main_page/nl
Other languages:	/wiki/Special:MyLanguage/Project:Language_policy
Page information	/w/index.php?title=MediaWiki&action=info
Permanent link	/w/index.php?title=MediaWiki&oldid=3878227
Printable version	/w/index.php?title=MediaWiki&printable=yes
Privacy policy	https://foundation.wikimedia.org/wiki/Privacy_policy
Random page	/wiki/Special:Random
Read	/wiki/MediaWiki
Read	/wiki/MediaWiki
Recent changes	/wiki/Special:RecentChanges
Related changes	/wiki/Special:RecentChangesLinked/MediaWiki
Report wrong software behavior or a	/wiki/Special:MyLanguage/How_to_report_a_bug
feature proposal	/ WIKI/ Special: My Danguage/ How_to_report_a_oug
Sandbox	/wiki/Project:Sandbox
Search	/wiki/Froject:Sandbox /wiki/Special:Search
Soomaaliga	https://www.mediawiki.org/wiki/Template:Main_page/so
Special pages	/wiki/Special:SpecialPages
Statistics	https://stats.wikimedia.org/#/www.mediawiki.org
Support desk	/wiki/Project:Support_desk
Talk	/wiki/Project:Support_desk /wiki/Special:MyTalk
Tech blog	/wiki/Special:MyTalk //techblog.wikimedia.org/
Technical manual	//tecnblog.wikimedia.org/ /wiki/Special:MyLanguage/Manual:Contents
Terms of Use	/wiki/Special:MyLanguage/Manual:Contents https://foundation.wikimedia.org/wiki/Special:
Terms of Use	MyLanguage/Policy:Terms_of_Use
Tiếng Việt	https://www.mediawiki.org/wiki/Template:Main_page/vi
Translate content	/wiki/Special:LanguageStats
	/wiki/Special:LanguageStats https://www.mediawiki.org/wiki/Template:Main_page/tr
Türkçe Upload file	https://www.mediawiki.org/wiki/Template:Main_page/tr //commons.wikimedia.org/wiki/Special:UploadWizard
-	//commons.wikimedia.org/wiki/Special: Upload Wizard /wiki/Special:MyLanguage/Help:Contents
User help View history	/wiki/Special:MyLanguage/Help:Contents /w/index.php?title=MediaWiki&action=history
View history	/w/index.php?title=MediaWiki&action=history /w/index.php?title=MediaWiki&action=history
View history View livestream	
View source	https://www.youtube.com/watch?v=r0xEhy9bBFU
View source View source	/w/index.php?title=MediaWiki&action=edit /w/index.php?title=MediaWiki&action=edit
	, ,
Village pump What links here	/wiki/Project:Village_Pump /wiki/Special:WhatLinksHere/MediaWiki
What links here Wikibooks	/Wiki/Special: WhatLinksHere/MediaWiki https://en.wikibooks.org/wiki/Main Page
	2 11 01 1 = 0
Wikidata Wikidata item	https://www.wikidata.org/wiki/Wikidata:Main_Page https://www.wikidata.org/wiki/Special:EntityPage/Q5296
Wikimania Wikimadia Commons	https://wikimania.wikimedia.org/wiki/Wikimania
Wikimedia Commons Wikimedia Dayalapar Partal	https://commons.wikimedia.org/wiki/Main_Page
Wikimedia Developer Portal	https://developer.wikimedia.org
Wikimedia Hackathon	/wiki/Special:MyLanguage/Wikimedia_Hackathon_2023

https://en.wikinews.org/wiki/Main_Page
https://en.wikipedia.org/wiki/Main_Page
https://en.wikiquote.org/wiki/Main_Page
https://en.wikisource.org/wiki/Main_Page
https://species.wikimedia.org/wiki/Main_Page
https://en.wikiversity.org/wiki/Wikiversity:Main_Page
https://en.wikivoyage.org/wiki/Main_Page
https://en.wiktionary.org/wiki/Wiktionary:Main_Page
https://www.mediawiki.org/wiki/Template:Main_page/ast
https://www.mediawiki.org/wiki/Template:Main_page/bs
https://www.mediawiki.org/wiki/Template:Main_page/ca
/wiki/Special:MyLanguage/Manual:System_administration
https://www.mediawiki.org/wiki/Template:Main_page/da
/wiki/Special:MyLanguage/Developer_hub
/wiki/Special:MyLanguage/Manual:Errors_and_symptoms
https://www.mediawiki.org/wiki/Template:Main_page/es
/wiki/Special:MyLanguage/Manual:Extensions
https://www.mediawiki.org/wiki/Template:Main_page/fr
https://en.wikipedia.org/wiki/FLOSS
/wiki/Special:MyLanguage/Hosting_services
https://www.mediawiki.org/wiki/Template:Main_page/hr
https://www.mediawiki.org/w/index.php?title=
MediaWiki&oldid=3878227
Module William Solice II
/wiki/Special:MyLanguage/Manual:Deciding_whether_to_use_a_wiki_as_
/wiki/Special:MyLanguage/Manual:Installation_guide
https://www.mediawiki.org/wiki/Template:Main_page/it
/wiki/Help:Introduction
https://www.mediawiki.org/wiki/Template:Main_page/hu
/wiki/Special:MyLanguage/Localisation
https://www.mediawiki.org/wiki/Template:Main_page/pl
https://www.mediawiki.org/wiki/Template:Main_page/pt
https://www.mediawiki.org/wiki/Template:Main_page/pt-br
https://www.mediawiki.org/wiki/Template:Main_page/po-bi
https://www.mediawiki.org/wiki/Template:Main_page/sc
https://www.mediawiki.org/wiki/Template:Main_page/sq https://www.mediawiki.org/wiki/Template:Main_page/sk
https://www.mediawiki.org/wiki/Template:Main_page/sk https://www.mediawiki.org/wiki/Template:Main_page/sl
https://www.mediawiki.org/wiki/Template:Main_page/fi
/wiki/Project:Support_desk
https://www.mediawiki.org/wiki/Template:Main_page/sv
/wiki/Special:MyLanguage/Sites_using_MediaWiki
/wiki/Special:MyLanguage/Sites_using_MediaWiki /wiki/Special:MyLanguage/MediaWiki_testimonials
/ wiki/ opecial.iviy hanguage/ wiedia wiki_testillioiliais
https://www.modiawilri.org/wilri/Tompleto.Moin_no.go/co
https://www.mediawiki.org/wiki/Template:Main_page/cs
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/ru
https://www.mediawiki.org/wiki/Template:Main_page/sr
https://www.mediawiki.org/wiki/Template:Main_page/uk

Text	Url
Text	https://www.mediawiki.org/wiki/Template:Main_page/hy https://www.mediawiki.org/wiki/Template:Main_page/he https://www.mediawiki.org/wiki/Template:Main_page/ar https://www.mediawiki.org/wiki/Template:Main_page/fa https://www.mediawiki.org/wiki/Template:Main_page/ckb https://www.mediawiki.org/wiki/Template:Main_page/hi https://www.mediawiki.org/wiki/Template:Main_page/bn https://www.mediawiki.org/wiki/Template:Main_page/gu https://www.mediawiki.org/wiki/Template:Main_page/si https://www.mediawiki.org/wiki/Template:Main_page/si
	https://www.mediawiki.org/wiki/Template:Main_page/zh https://www.mediawiki.org/wiki/Template:Main_page/ja https://www.mediawiki.org/wiki/Template:Main_page/yue https://www.mediawiki.org/wiki/Template:Main_page/ko

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.

Resolución:

En este caso se uso la función **table()** para obtener la tabla de repeticiones del texto acompañado de la Url. En base a ello se realiza un filtro donde la frecuencia sea mayor a 0 para considerar solo el texto con su respectiva url que existen y lo ordenamos en orden alfabético con la función **arrange()**. Esta nueva tabla figura con la variable **links_data**. Todo ello se realizó con el siguiente código.

```
# 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 ordenamos en orden alfábetico
links_data <- filter(concurrences, Freq > 0) %>% arrange(Text)
# Visualización de la tabla en el archivo pdf
kable(links_data)
```

Text	Url	Freq
	/wiki/File:Wikimedia_Hackathon_Prague_2019	1
	_Group_PhotoCLKcropped.jpg	
	/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

Text	Url	Freq
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=	=38 7 8227&wpFormI
Code of Conduct	https://www.mediawiki.org/wiki/Special:	1
	MyLanguage/Code_of_Conduct	
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&refer	rer±MediaWiki
Create account	/w/index.php?title=Special:CreateAccount&returnto=MediaWik	
Creative Commons	https://creativecommons.org/licenses/by-sa/3.0/	1
Attribution-ShareAlike License	nttps://creativecommons.org/ncenses/by-sa/5.0/	1
	https://www.modiawiki.ang/wiki/Tomplete.Main.no.go/do	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	
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
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	/wiki/Special:MyLanguage/Professional_development_and_cons	sulting
consulting	, , , , , , , , , , , , , , , , , , , ,	
hosting services	/wiki/Special:MyLanguage/Hosting_services	1
hrvatski	https://www.mediawiki.org/wiki/Template:Main_page/hr	1
https://www.mediawiki.org/w/	https://www.mediawiki.org/w/index.php?title=	1
index.php?title=	MediaWiki&oldid=3878227	
MediaWiki&oldid=3878227		
if MediaWiki is right for you	/wiki/Special:MyLanguage/Manual:Deciding_whether_to_use_a	a wriki as vour w
install	/wiki/Special:MyLanguage/Manual:Installation_guide	1
italiano	https://www.mediawiki.org/wiki/Template:Main_page/it	1
IVALIGITO	1100po.//www.mediawini.ors/wini/remplate.iviami_page/it	±

Text	Url	Freq
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,	/wiki/Special:MyLanguage/Help:Contents	1
and personal customization	, , , , , , , , , , , , , , , , , , , ,	
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	https://lists.wikimedia.org/hyperkitty/list/mediawiki-	1
1.39.3 security releases	announce@lists.wikimedia.org/message/	1
1.99.9 Security releases	6UQBHI5FWLATD7QO7DI4YS54U7XSSLAN/	
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:	
More news	https://www.mediawiki.org/wiki/Special:MyLanguage/News	=toggie_view_i 1
nultilingual	/wiki/Special:MyLanguage/Localisation	1
Multilingual Wikisource	https://wikisource.org/wiki/Main_Page	1
Vederlands	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
oolski	https://www.mediawiki.org/wiki/Template:Main_page/pl	1
oortuguês	https://www.mediawiki.org/wiki/Template:Main_page/pt	1
oortuguês 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	/wiki/Special:MyLanguage/How_to_report_a_bug	1
a feature proposal		
română	https://www.mediawiki.org/wiki/Template:Main_page/ro	1
Sandbox	/wiki/Project:Sandbox	1
ardu	https://www.mediawiki.org/wiki/Template:Main_page/sc	1
Search	/wiki/Special:Search	1
hqip	https://www.mediawiki.org/wiki/Template:Main_page/sq	1
lovenčina	https://www.mediawiki.org/wiki/Template:Main_page/sk	1
lovenščina	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
		1
Support desk	/wiki/Project:Support_desk	
svenska Tall-	https://www.mediawiki.org/wiki/Template:Main_page/sv	1
Talk	/wiki/Special:MyTalk	1

Techn blog	Text	Url	Freq
Technical manual tens of thousands of websites /wiki/Special-MyLanguage/Manual-Contents /wiki/Special-MyLanguage/Modia-Wiki Terms of Use thousands of companies and organizations /wiki/Special-MyLanguage/Modia-Wiki testimonials /wiki/Special-MyLanguage/Modia-Wiki testimonials /wiki/Special-MyLanguage/Modia-Wiki testimonials /wiki/Special-MyLanguage/Modia-Wiki testimonials /wiki/Special-MyLanguage/Modia-Wiki testimonials /wiki/Special-MyLanguage/Modia-Wiki testimonials /wiki/Special-MyLanguage/Modia-Wiki/Template:Main_page/vi Translate content /wiki/Special-MyLanguage/Modia-Wiki/Template:Main_page/vi User help /wiki/Special-MyLanguage/Help-Contents /wiki/Special-WyLanguage/Help-Contents /wiki-Mylanguage/Help-Contents	Tech blog	//techblog.wikimedia.org/	1
Terms of Use	Technical manual		1
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Text	Url	Freq
	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).

Resolución:

Primero se procede a obtener los enlaces completos, para ello se valida que valores de la columna Url tiene https y las que no para completarlos con "https" con la función **case_when()** y se realiza la unión con la función **paste()**. Las urls completas se guardan en la columna **Url_final**.

Luego para obtener el código de respuesta de cada url, se realiza el recorrido con la función **map()** y se aplica la función **HEAD()** para obtener el código de respuesta con el parámetro **status_code**. Ese valor se guarda en la columna **Status_Code**. Lo mencionado se realizó con el siguiente código.

```
# 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$Url) ~ pasteO(base_url, links_data$Url),
    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")</pre>
```

En Proceso...

```
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)
# Visualización de la tabla en el archivo pdf
kable(links_data)</pre>
```

Text	Url	FreqFinal_Url	Status_Code
	/wiki/File:Wikimedia_Hackathon_ Prague_2019Group_Photo _CLKcropped.jpg	1 https://www.mediawiki.org/wiki/ File:Wikimedia_Hackathon_ Prague_2019Group_Photo _CLKcropped.jpg	200
	/wiki/Help:Contents	1 https://www.mediawiki.org/wiki/ Help:Contents	200

Text	Url	$\operatorname{Fr}\epsilon$	eqFinal_Url	$Status_Code$
	/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	d_1cc		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@wikia w	colletps://www.mediawiki.org/	1	https://wikis.world/@mediawiki	200
amediawiki⊕wikis.w About	/wiki/Project:About	1	https://www.mediawiki.org/wiki/	200
MediaWiki.org	, , ,		Project:About	
Afrikaans	https://www.mediawiki.org/wiki/ Template:Main_page/af	1	https://www.mediawiki.org/wiki/ Template:Main_page/af	200
sturianu	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
oosanski	https://www.mediawiki.org/wiki/ Template:Main_page/bs	1	https://www.mediawiki.org/wiki/ Template:Main_page/bs	200
atalà	https://www.mediawiki.org/wiki/ Template:Main_page/ca	1	https://www.mediawiki.org/wiki/ Template:Main_page/ca	200
eština	https://www.mediawiki.org/wiki/ Template:Main_page/cs	1	https://www.mediawiki.org/wiki/ Template:Main_page/cs	200
Cite this page		Palge	#####################################	Fo 200 dentifier=titl
			CiteThisPage&page=	
			MediaWiki&id= 3878227&wpFormIdentifier=	
	•		titleform	
Code of Conduct	https:	1	https:	200
	//www.mediawiki.org/wiki/Special: MyLanguage/Code_of_Conduct		//www.mediawiki.org/wiki/Special: MyLanguage/Code_of_Conduct	
Code statistics	/wiki/Development_statistics	1	https://www.mediawiki.org/wiki/ Development_statistics	200
Communication	/wiki/Special:MyLanguage/Commun	icati	-	200
Community portal	/wiki/Project:Help	1	https://www.mediawiki.org/wiki/ Project:Help	200
configure	/wiki/Special:MyLanguage/Manual:S	ysite		200

Text	Url	FreqFinal_Url	Status_Code
Contribute	/wiki/Special:MyLanguage/How_to_		200
		//www.mediawiki.org/wiki/Special:	
		MyLanguage/How_to_contribute	
Contributions	/wiki/Special:MyContributions	1 https://www.mediawiki.org/wiki/	200
		Special:MyContributions	
Cookie statement	https://foundation.wikimedia.org/	1 https://foundation.wikimedia.org/	200
	wiki/Cookie_statement	wiki/Cookie_statement	
Create a book	/w/index.php?title=Special:Book&bo	okcm ht±ps: øk <u>w</u> areamædiaefeke.c r gMædiaWiki	i 200
		index.php?title=Special:	
		$Book\&bookcmd=book_$	
		creator&referer=MediaWiki	
Create account	/w/index.php?title=Special:CreateAcc	count litters of how Menerical Wildians / w/	200
		index.php?title=Special:	
		CreateAccount&returnto =	
		MediaWiki	
Creative Commons	https://creativecommons.org/	1 https://creativecommons.org/	200
Attribution-	licenses/by-sa/3.0/	licenses/by-sa/3.0/	
ShareAlike License			
dansk	https://www.mediawiki.org/wiki/	1 https://www.mediawiki.org/wiki/	200
	Template:Main_page/da	Template:Main_page/da	
Deutsch	https://www.mediawiki.org/wiki/	1 https://www.mediawiki.org/wiki/	200
	Template:Main_page/de	Template:Main_page/de	
developer	/wiki/Special:MyLanguage/Developer	_lhubttps:	200
documentation		//www.mediawiki.org/wiki/Special:	
		MyLanguage/Developer_hub	
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/	200
		Project:General_disclaimer	
Discussion	/wiki/Talk:MediaWiki	1 https://www.mediawiki.org/wiki/	200
		Talk:MediaWiki	
Download	/wiki/Special:MyLanguage/Download		200
		Special:MyLanguage/Download	
Download as PDF /w/index.php?title=Special:DownloadAsPdfftps:ge/wMwchiadWikiwklaictoig			200
	download-screen	index.php?title=Special:	
		Download As Pdf & page =	
		MediaWiki&action=show-	
		download-screen	
EMWCon	/wiki/Special:MyLanguage/EMWCon	_1Sprintgps2023ww.mediawiki.org/wiki/	200
		Special:MyLanguage/EMWCon_	
		Spring_2023	
English	#	1 https://www.mediawiki.org #	200
English	$/wiki/Template:Main_page$	1 https://www.mediawiki.org/wiki/	200
		Template:Main_page	
errors and	/wiki/Special:MyLanguage/Manual:E	rnfors <u>h</u> tatupals://s/www.putrommesdiawiki.org/wiki/	200
symptoms		Special:MyLanguage/Manual:	
		Errors_and_symptoms	
español	https://www.mediawiki.org/wiki/	1 https://www.mediawiki.org/wiki/	200
	Template:Main_page/es	Template:Main_page/es	
extensions	/wiki/Special:MyLanguage/Manual:E		200
		//www.mediawiki.org/wiki/Special:	
		MyLanguage/Manual:Extensions	

Text	Url	FreqFinal_Url	Status_Code
FAQ	/wiki/Special:MyLanguage/Manual:F	AQ https://www.mediawiki.org/wiki/ Special:MyLanguage/Manual:FAQ	200
Find out more	/wiki/Special:MyLanguage/Manual:V	Vllat_listpMediaWwiki%3Fawiki.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		200
Get involved	$/wiki/Special: My Language/How_to_\\$	· ·	200
Get MediaWiki	/wiki/Download	1 https://www.mediawiki.org/wiki/ Download	200
Get professional development and consulting	/wiki/Special:MyLanguage/Profession	nal_dhtepsp//wntwanddiawiki.lting/wiki/ Special:MyLanguage/Professional_ development and consulting	200
hosting services	$/wiki/Special: My Language/Hosting_$		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=	https://www.mediawiki.org/w/index.php?title= MediaWiki&oldid=3878227	1 https://www.mediawiki.org/w/index.php?title= MediaWiki&oldid=3878227	200
3878227 if MediaWiki is right for you	/wiki/Special:MyLanguage/Manual:I	Detidingtps://e/thouw.tnediacviki.owg/iwiksi/you Special:MyLanguage/Manual: Deciding_whether_to_use_a_ wiki_as_your_website_type	ıı <u>20</u> ₩ebsite_typ
install	/wiki/Special: My Language/Manual: I	win_as_your_website_type nstallattitps:/g/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
Learn how to edit a page	/wiki/Special:MyLanguage/Help:Edit	~ . ~ ~ - ~	200
Learn how to navigate	/wiki/Special:MyLanguage/Help:Nav		200

Text	Url	Fre	qFinal_Url	Status_Code
learn more	/wiki/Help:Introduction	1	https://www.mediawiki.org/wiki/ Help:Introduction	404
Learn more about reading, editing, and personal	/wiki/Special:MyLanguage/Help:Cont	ehts		200
customization Log in	/w/index.php?title=Special:UserLogin	ı&r∈	index.php?title=Special:	200
magyar	https://www.mediawiki.org/wiki/ Template:Main_page/hu	1	UserLogin&returnto=MediaWiki 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/	1	https://lists.wikimedia.org/ hyperkitty/list/mediawiki- announce@lists.wikimedia.org/ message/	200
MediaWiki Stakeholders	6UQBHI5FWLATD7QO7DI4YS54U7/wiki/Special:MyLanguage/MediaWik			7XSSLAN/ 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=	= 1 Me	edittYsikisunwhiheadtionikitogg/emview_ mediawiki.org/w/index.php?title= MediaWiki&mobileaction=toggle_ view_mobile	_nak0k4ile
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	o il	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:La	afigu	algttppøllwww.mediawiki.org/wiki/ Special:MyLanguage/Project: Language_policy	200
Page information	/w/index.php?title=MediaWiki&actio	n⊫i	0 0 - 1	200
Permanent link	/ w/index.php?title=MediaWiki&oldid	l ± 38		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

Text	Url	Fre	eqFinal_Url	Status_Code
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&prin	nta l bl		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 $/$ Media W iki	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/	/Med	-	200
	, , ,		//www.mediawiki.org/wiki/Special: RecentChangesLinked/MediaWiki	
Report wrong software behavior or a feature proposal	/wiki/Special:MyLanguage/How_to_	_r 4 p	ontttps:b/ngww.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
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

Text	Url	FreqFinal_Url	Status_Code
Technical manual	/wiki/Special:MyLanguage/Manual:	Cohterhtstps: //www.mediawiki.org/wiki/Special: MyLanguage/Manual:Contents	200
tens of thousands of websites	/wiki/Special:MyLanguage/Sites_us	sing_MettizsWikiww.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		iki <u>l</u> te stittpentals ww.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/Spec	ciall:UplhotaplstVi/zamdw.mediawiki.org/ /commons.wikimedia.org/wiki/ Special:UploadWizard	404
User help	/wiki/Special:MyLanguage/Help:Con	ntehts https://www.mediawiki.org/wiki/ Special:MyLanguage/Help:Contents	200
View history	/w/index.php?title=MediaWiki&act	ion2=histopy://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&act		200
Village pump	/wiki/Project:Village_Pump	1 https://www.mediawiki.org/wiki/ Project:Village_Pump	200
What links here	/wiki/Special:WhatLinksHere/Media	aWIki 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
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/Wikimed	lia <u>1</u> Ha dtashoʻn<u>w</u>2023 nediawiki.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

Text	Url	Fre	eqFinal_Url	Status_	_Cod
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/	1	https://www.mediawiki.org/wiki/	200	
	Template:Main_page/kk https://www.mediawiki.org/wiki/	1	Template:Main_page/kk https://www.mediawiki.org/wiki/	200	
/ srpski	Template:Main_page/ru https://www.mediawiki.org/wiki/	1	Template:Main_page/ru https://www.mediawiki.org/wiki/	200	
	Template:Main_page/sr https://www.mediawiki.org/wiki/ Template:Main_page/uk	1	Template:Main_page/sr 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	
	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	

Url	FreqFinal_Url	Status_Code	
https://www.mediawiki.org/wiki/ Template:Main_page/ja https://www.mediawiki.org/wiki/	1 https://www.mediawiki.org/wiki/ Template:Main_page/ja 1 https://www.mediawiki.org/wiki/	200 200	
	https://www.mediawiki.org/wiki/ Template:Main_page/ja	https://www.mediawiki.org/wiki/ Template:Main_page/ja https://www.mediawiki.org/wiki/ Template:Main_page/ja https://www.mediawiki.org/wiki/ 1 https://www.mediawiki.org/wiki/	

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

Proceso terminado

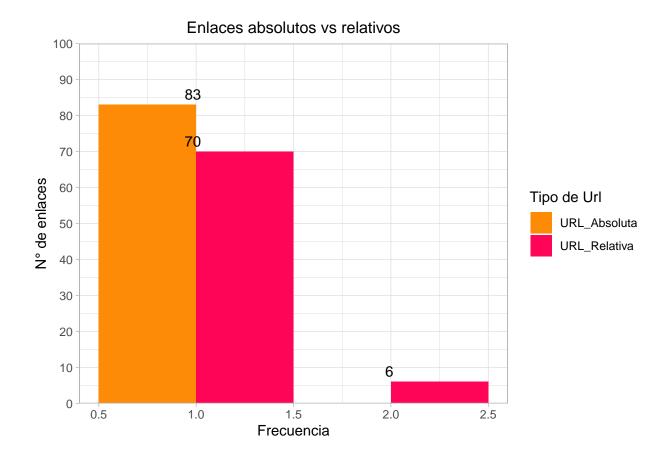
Pregunta 2

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

Resolución:

Para esta pregunta se creó una nueva columna llamada **Url_type** donde se valida si hay enlaces absolutas o relativas con la función **grepl()**. Luego se utiliza la función **ggplot()** y **geom_histogram()** para mostrar el histograma, el cual el n° de enlaces está en el eje Y y la frecuencia en el eje x. Lo mencionado se encuentra el siguiente código.

```
# Validando si la URL es absoluta o relativa
links_data$Url_type <- ifelse(grepl("^http", links_data$Url), "URL_Absoluta", "URL_Relativa")</pre>
# 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(values=c("#fe8b05","#fe0557"), name = "Tipo de Url") +
  # Incroporando los nombres para los ejes x y y, y el título del gráfico
  labs(x = "Frecuencia", y = "N° de enlaces", title = "Enlaces absolutos vs relativos") +
  # Escala del número de enlaces
  scale_y_continuous(limits = c(0, 100),
                     breaks = seq(0, 100, 10),
                     expand = c(0, 0)) +
  # Creando fondo con líneas de cuadrícula
  theme_light() +
  # Ajustando la ubicación del título
  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)
```



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.

Resolución:

Se realizó la validación con el dominio "https://www.mediawiki.org" para determinar si la url es externa o interna y se incorporó un nueva columna llama **Domain_Type** con los valores. Luego se determino el n° d repeticiones con la función **table()** y con la función **ggplot()** y **geom_bar()** para mostrar el gráfico de barras, el cual en el eje x tiene los tipos de dominio y en el eje y la cantidad. Todo ello se realizó con el siguiente código.

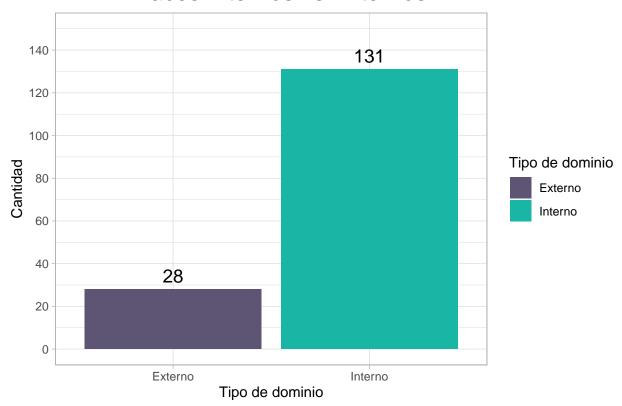
```
# Añadiendo si el link es interno o externo
links_data$Domain_Type <- ifelse(grepl("^https://www.mediawiki.org", links_data$Final_Url), "Interno",

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

# Mostrando gráfica de barras
# Dibujando la gráfica en base al tipo de dominio si es externo o interno y su cantidad
bar_graphic <- ggplot(data.frame(Domain_Type = names(freq_link), count = as.numeric(freq_link)), aes(x=:
    # Creación del gráfico de barras
geom_bar(stat="identity") +
    # Títulos para los ejes x e y, y el título de la gráfica
labs(title="Enlaces Internos vs Externos", x="Tipo de dominio", y="Cantidad") +
    theme_light() +</pre>
```

```
# Cambiando el nombre de la leyenda
scale_fill_manual( name = "Tipo de dominio", values = c("#5e5473", "#19b5a5")) +
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) +
# Ajustando ubicación del título
theme(plot.title = element_text(hjust = 0.5, size = 18))
# Mostrando la gráfica
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.

Resolución:

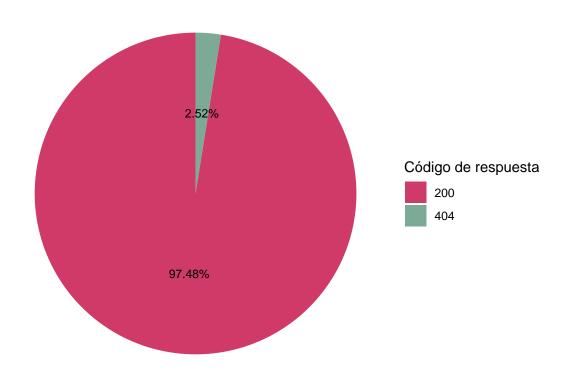
Para este gráfico es necesario hallar los porcentajes se utiliza la función **prop.table()** y **round()**. Luego se utiliza las funciones **ggplot()** y **geom_bar()** para el gráfico respectivo. Todo ello se encuentra en el siguiente código con su respectivo detalle.

```
# 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</pre>
```

```
chart_graphic <- ggplot(code_data, aes(x="", y=Percentage, fill=Status_Code)) +
    # Gráfico chart pie
    geom_bar(width = 1, stat = "identity") +
    coord_polar("y", start=0) +
    # Titulo del gráfico
    ggtitle("Códigos de estados de respuesta") +
    theme_void() +
    # Incorporando los porcentajes
    geom_text(aes(label = paste0(Percentage, "%")), position = position_stack(vjust = 0.5), size = 3) +
    # Nombre de la leyenda y colores del gráfico
    scale_fill_manual(name = "Código de respuesta" ,values=c("#cf3a69", "#7caa96")) +
    # Ubicación del título
    theme(plot.title = element_text(hjust = 0.5, vjust = 1, size = 18))

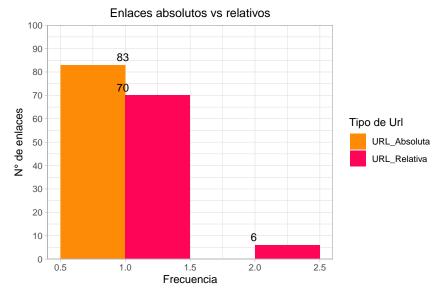
# Mostrando la gráfica
grid.arrange(chart_graphic, ncol=1)</pre>
```

Códigos de estados de respuesta

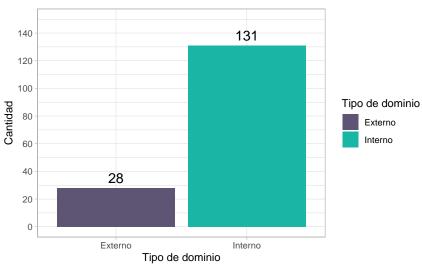


Para mostrar los gráficos en uno solo, se usa la función grid.arrange()

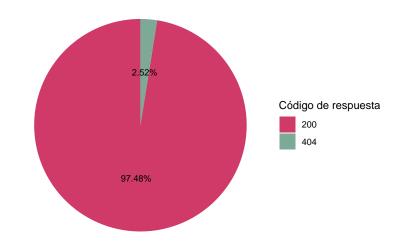
```
# Mostrando las tres gráficas en una sola figura
grid.arrange(histogram, bar_graphic, chart_graphic, ncol=1)
```



Enlaces Internos vs Externos



Códigos de estados de respuesta



cat("Fin\n")

Fin

Visualización de la tabla final
View(links_data)