Package ‘seleniumPipes’

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Description The W3C WebDriver specification defines a way for out-of-process programs to remotely instruct the behaviour of web browsers. It is detailed at <https://w3c.github.io/webdriver/webdriver-spec.html>. This package provides an R client implementing the W3C specification.
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acceptAlert

Description

acceptAlert accept a JavaScript alert

Usage

acceptAlert(remDr, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.

... Additional function arguments - Currently passes the retry argument.

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.
See Also

Other userPrompts functions: 

Examples

## Not run:

```r
remDr <- remoteDr()
remDr %>% go("https://www.google.com/ncr") %>%
getTitle()
remDr %>% executeScript(sScript, args = list())
remDr %>% dismissAlert()

remDr %>% executeScript(sScript, args = list())
remDr %>% acceptAlert()

remDr %>% executeScript(sScript, args = list())
remDr %>% dismissAlert()

remDr %>% deleteSession()
```

## End(Not run)

---

**acceptAlertOld**

Accept alert

**Description**

`acceptAlertOld` accept a JavaScript alert. This uses the old JSONwireprotocol endpoints.

**Usage**

`acceptAlertOld(remDr, ...)`

**Arguments**

- **remDr**: An object of class "rDriver". A remote object. See `remoteDr`.
- **...**: Additional function arguments - Currently passes the `retry` argument.
addCookie

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other oldMethods functions: dismissAlertOld, executeAsyncScriptOld, executeScriptOld, getAlertTextOld, getWindowHandleOld, getWindowHandlesOld, getWindowPositionOld, getWindowSizeOld, maximizeWindowOld, sendAlertTextOld, setWindowPositionOld, setWindowSizeOld

Examples

## Not run:
# functions in this group are using the old JSONwireprotocol end points

## End(Not run)

---

addCookie | Add a specific cookie.

Description

addCookie Add a specific cookie.

Usage

addCookie(remDr, name, value, path = NULL, domain = NULL, secure = FALSE, httpOnly = NULL, expiry = NULL, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
name character: The name of the cookie; may not be null or an empty string
value character: The cookie value; may not be null.
path character: The path the cookie is visible to. If left blank or set to null, will be set to "/".
domain character: The domain the cookie is visible to. It should be null or the same as the domain of the current URL.
secure logical: Whether this cookie requires a secure connection(https?). It should be null or equal to the security of the current URL.
httpOnly logical: Whether the cookie is an httpOnly cookie.
expiry The cookie’s expiration date; may be null.
... Additional function arguments - Currently passes the retry argument.
Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other cookies functions: deleteAllCookies, deleteCookie, getAllCookies, getNamedCookie

Examples

```r
## Not run:
# assume a server is running at default location
remDr <- remoteDr()
remDr %>% go("https://www.google.com/ncr") %>%
  getTitle()
# get the cookies
remDr %>% getCookie()
# get a named cookie
remDr %>% getCookie("NID")
# add our own cookie
remDr %>% addCookie(name = "myCookie", value = "12")
# check its value
remDr %>% getCookie("myCookie")
# delete our cookie
remDr %>% deleteCookie("myCookie")
# check its deleted
remDr %>% getCookie("myCookie")

# delete all cookies
remDr %>% getCookie()
remDr %>% deleteAllCookies() %>%
  getCookie()

remDr %>% deleteSession()

## End(Not run)
```

Description

back Navigate backwards in the browser history, if possible.

Usage

back(remDr, ...)
checkResponse

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.

... Additional function arguments - Currently passes the retry argument.

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other navigation functions: forward, getCurrentUrl, getTitle, go, refresh

Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# get the title
remDr %>% getTitle

# get the current page url
remDr %>% getCurrentUrl

# navigate
remDr %>% go("http://www.bbc.co.uk")

# go back
remDr %>% (seleniumPipes::back)

# go forward
remDr %>% forward

# refresh page
remDr %>% refresh

# close browser
remDr %>% deleteSession

## End(Not run)
```

checkResponse Check the response from remote server
checkResponse checks the response from a remote web driver and checks against known errors.

Usage
checkResponse(response)

Arguments
response The value returned by a http method from httr see VERB

Value
Stops with appropriate error if any found. On error errorResponse and errorContent may provide additional detail.

Examples
## Not run:
# internal method
## End(Not run)

---

**closeWindow**

Close the current window.

description

closeWindow Close the current window.

Usage
closeWindow(remDr, ...)

Arguments
remDr An object of class "rDriver". A remote driver object see remoteDr.
... Additional function arguments - Currently passes the retry argument.

Value
invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.
closeWindow

See Also

Other commandContexts functions: fullscreenWindow, getWindowHandles, getWindowHandle, getWindowPosition, getWindowSize, maximizeWindow, setWindowPosition, setWindowSize, switchToFrame, switchToParentFrame, switchToWindow

Examples

## Not run:
```
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld

# Set the window size
remDr %>% setWindowSize(500, 500)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowSizeOld(500, 500)

# Set the position of the window
remDr %>% setWindowPositionOld(400, 100)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowPositionOld(400, 100)

# Maximise the window
remDr %>% maximizeWindow
# Some browsers are still using the old JSON wire end points
# remDr %>% maximizeWindowOld()

remDr %>% go("http://www.google.com/ncr")
# search for the "R project"

remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")

webElem <- remDr %>% findElement("css", "h3.r a")

remDr %>% deleteSession

## End(Not run)
deleteAllCookies  
Delete all the cookies.

**Description**

`deleteAllCookies` Delete all the cookies that are currently visible.

**Usage**

```r
deleteAllCookies(remDr, ...)
```

**Arguments**

- `remDr` An object of class "rDriver". A remote driver object see `remoteDr`.
- `...` Additonal function arguments - Currently passes the `retry` argument.

**Value**

`invisible(remDr)`: An object of class "rDriver" is invisibly returned. A remote driver object see `remoteDr`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

**See Also**

Other cookies functions: `addCookie`, `deleteCookie`, `getAllCookies`, `getNamedCookie`

**Examples**

```r
## Not run:
# assume a server is running at default location
remDr <- remoteDr()
remDr %>% go("https://www.google.com/ncr") %>%
  getTitle()
# get the cookies
remDr %>% getCookie()
# get a named cookie
remDr %>% getCookie("NID")
# add our own cookie
remDr %>% addCookie(name = "myCookie", value = "12")
# check its value
remDr %>% getCookie("myCookie")
# delete our cookie
remDr %>% deleteCookie("myCookie")
# check its deleted
remDr %>% getCookie("myCookie")

# delete all cookies
remDr %>% getCookie()
remDr %>% deleteAllCookies() %>%
```
deleteCookie

```
getCookie()
remDr %>% deleteSession()
## End(Not run)
```

---

**deleteCookie**

_Delete a given cookie._

**Description**

_deleteCookie_: Delete the cookie with the given name.

**Usage**

```r
deleteCookie(remDr, name = NULL, ...)
```

**Arguments**

- **remDr**: An object of class "rDriver". A remote driver object see `remoteDr`.
- **name**: character: The name of the cookie; may not be null or an empty string
- **...**: Additonal function arguments - Currently passes the `retry` argument.

**Value**

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see `remoteDr`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

**See Also**

Other cookies functions: `addCookie, deleteAllCookies, getAllCookies, getNamedCookie`

**Examples**

```r
## Not run:
# assume a server is running at default location
remDr <- remoteDr()
remDr %>% go("https://www.google.com/ncr") %>%
  getTitle()
# get the cookies
remDr %>% getCookie()
# get a named cookie
remDr %>% getCookie("NID")
# add our own cookie
remDr %>% addCookie(name = "myCookie", value = "12")
# check its value
remDr %>% getCookie("myCookie")
# delete our cookie
```
deleteSession

Delete the session.

Description

deleteSession Delete the session.

Usage

deleteSession(remDr, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.

... Additonal function arguments - Currently passes the retry argument.

Value

Returns an object of class "rDriver". The sessionId associated with this driver has been removed however and the associated browser should be closed by the server.

See Also

Other sessions functions: newSession, setTimeout

Examples

```r
## Not run:
# start a driver without opening a browser
remDr <- remoteDr(newSession = FALSE)

# open a browser
remDr %>% newSession

# set timeout on waiting for elements
remDr %>% setTimeout(type = "implicit", 5000)
```
dismissAlert

# close Session
remDr %>% deleteSession

## End(Not run)

---

**dismissAlert**  
*Dismiss Alert*

**Description**

dismissAlert dismiss a JavaScript alert

**Usage**

dismissAlert(remDr, ...)

**Arguments**

- **remDr**: An object of class "rDriver". A remote driver object see remoteDr.
- **...**: Additional function arguments - Currently passes the retry argument.

**Value**

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

**See Also**

Other userPrompts functions: acceptAlert, getAlertText, sendAlertText

**Examples**

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("https://www.google.com/ncr") %>%
getTitle()
sScript <- "setTimeout(function(){alert('HELLO'),1000); return 'DONE';" remDr %>% executeScript(sScript, args = list()) remDr %>% dismissAlert()

sScript <- "setTimeout(function(){confirm('Press a button'),1000); return 'DONE';" remDr %>% executeScript(sScript, args = list()) remDr %>% acceptAlert()

sScript <- "setTimeout(function(){confirm('Press a button'),1000); return 'DONE';"```
**dismissAlertOld**

 DISCLAIM Alert

**Description**

dismissAlertOld dismiss a JavaScript alert. This uses the old JSONwireprotocol endpoints.

**Usage**

dismissAlertOld(remDr, ...)

**Arguments**

remDr An object of class "rDriver". A remote driver object see remoteDr.

... Additonal function arguments - Currently passes the retry argument.

**Value**

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

**See Also**

Other oldMethods functions: acceptAlertOld, executeAsyncScriptOld, executeScriptOld, getAlertTextOld, getWindowHandleOld, getWindowHandlesOld, getWindowPositionOld, getWindowSizeOld, maximizeWindowOld, sendAlertTextOld, setWindowPositionOld, setSizeOld

**Examples**

### Not run:

# functions in this group are using the old JSONwireprotocol end points

## End(Not run)
elementClear

Clear an element's text value.

Description

ElementClear clears a TEXTAREA or TEXT INPUT element's value.

Usage

ElementClear(webElem, ...)

Arguments

webElem An object of class "wElement". A web Element object see \texttt{wbElement}.

... Additional function arguments - Currently passes the \texttt{retry} argument.

Value

\texttt{invisible(webElem): An object of class "wElement" is invisibly returned. A \texttt{webElement} object see \texttt{wbElement}. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.}

See Also

Other elementInteraction functions: \texttt{elementClick, elementSendKeys}

Examples

## Not run:

# start a browser
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

queryBox <- remDr %>% findElement("name", "q")

# send text to the query box
queryBox %>% elementSendKeys("Some ", "text")

# clear the query box
queryBox %>% elementClear

# get the search button
searchBtn <- remDr %>% findElement("name", "btnG")

# send text to query box
queryBox %>% elementSendKeys("R project")

# click the search button
searchBtn %>% elementClick
elementClick

Click on an element.

Description

elementClick The elementClick function scrolls into view the element and clicks the in-view centre point. If the element is not pointer-interactable, an element not interactable error is returned.

Usage

elementClick(webElem, ...)

Arguments

webElem An object of class "wElement". A web Element object see \texttt{wbElement}.

... Additonal function arguments - Currently passes the retry argument.

Value

invisible(webElem): An object of class "wElement" is invisibly returned. A webElement object see \texttt{wbElement}. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other elementInteraction functions: \texttt{elementClear}, \texttt{elementSendKeys}

Examples

## Not run:
# start a brower
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

queryBox <- remDr %>% findElement("name", "q")

# send text to the query box
queryBox %>% elementSendKeys("Some ", "text")

# clear the query box
queryBox %>% elementClear

# get the search button
searchBtn <- remDr %>% findElement("name", "btnG")
elementSendKeys

Send a sequence of key strokes to an element.

Description

elementSendKeys The elementSendKeys function scrolls into view the form control element and then sends the provided keys to the element. In case the element is not keyboard interactable, an element not interactable error is returned.

Usage

elementSendKeys(webElem, ...)

Arguments

webElem       An object of class "wElement". A web Element object see wbElement.
...           keys to send the element. seleniumPipes includes mappings to unicode keys see selKeys. To use one of this name the string using key. See examples.

Value

invisible(webElem): An object of class "wElement" is invisibly returned. A webElement object see wbElement. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other elementInteraction functions: elementClear, elementClick

Examples

## Not run:
  # start a browser
  remDr <- remoteDr()
  remDr %>% go("http://www.google.com/ncr")

  queryBox <- remDr %>% findElement("name", "q")
# send text to the query box
queryBox %>% elementSendKeys("Some ", "text")

# clear the query box
queryBox %>% elementClear

# get the search button
searchBtn <- remDr %>% findElement("name", "btnG")
# send text to query box
queryBox %>% elementSendKeys("R project")

# click the search button
searchBtn %>% elementClick

# close browser
remDr %>% deleteSession

## End(Not run)

---

**errorContent**  
*Returns the content from remote webdriver*

**Description**

errorContent returns the content from the remote webdriver on an error.

**Usage**

errorContent()

**Value**

returns content see `content`

**Examples**

## Not run:
remDr <- remoteDr()
remDr %>% findElement("name", "sdofnsdofk")
errorContent()

## End(Not run)
errorResponse  

Return the response from remote webdriver

Description

errorResponse returns the response from the remote webdriver on an error.

Usage

errorResponse()

Value

returns response see VERB. Headers, request etc. can be examined from this object.

Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% findElement("name", "sdofoosdofk")
errorResponse()
## End(Not run)
```

executeAsyncScript  

Execute JavaScript asynchronously on browser.

Description

executeAsyncScript Inject a snippet of JavaScript into the page for asynchronous execution in the context of the currently selected frame.

Usage

executeAsyncScript(remDr, script, args = list(), replace = TRUE, ...)

Arguments

- remDr: An object of class "rDriver". A remote driver object see remoteDr.
- script: character: The script to inject.
- args: The arguments of the script as a list.
- replace: logical: If TRUE any elements identify as web Elements are converted to such.
- ...: Additonal function arguments - Currently passes the retry argument.
executeAsyncScript

Details

The driver will pass a callback as the last argument to the snippet, and block until the callback is invoked.

Value

If replace is TRUE parses the response from the server for web Elements and converts as such. Otherwise the content returned is assumed to be a simple list.

See Also

Other documentHandling functions: executeScript, getPageSource

Examples

```r
## Not run:
remDr <- remoteDr()
# Get the page source
remDr %>% go("https://www.google.com/ncr") %>%
  getPageSource

remDr %>% getTitle()
webElem <- remDr %>% findElement("css", "img#hplogo")
# check if the logo is hidden
remDr %>% executeScript("return document.getElementById('hplogo').hidden;", args = list())
# [1] FALSE
# hide the logo
remDr %>% executeScript("document.getElementById('hplogo').hidden = true;", args = list())
# Make the logo visible this time passing a web Element as an argument
remDr %>% executeScript(script = "return arguments[0].hidden = false;", args = list(webElem))

# Pass arguments
remDr %>% executeScript(script = "return argument[1] + argument[2];",
                       args = list(1, 2))

# Return a web Element
remDr %>% executeScript(script = "return document.getElementById('hplogo');", args = list())
# ElementId: 0
# Remote Driver:
#  Remote Ip Address: http://localhost:4444/wd/hub
#  Remote sessionId: 9a83672a-d72b-4873-aa7d-96f7f1f80fa0

# Return a web Element in a more complex object
script <- "var test = {num:1, str:"a"}; document.getElementById('hplogo');return test;"
remDr %>% executeScript(script = script
                       , args = list())

# $str
# [1] "a"
#
# $num
# [1] 1
#
```
executeAsyncScriptOld

executeAsyncScriptOld

Description

eexecuteAsyncScriptOld This function uses the old JSONwireprotocol end points. Inject a snippet of JavaScript into the page for asynchronous execution in the context of the currently selected frame.

Usage

executeAsyncScriptOld(remDr, script, args = list(), replace = TRUE, ...)

Arguments

- remDr: An object of class "rDriver". A remote driver object see remoteDr.
- script: character: The script to inject.
- args: The arguments of the script as a list.
executeScript

Description

executeScript Inject a snippet of JavaScript into the page for execution in the context of the currently selected frame. The executed script is assumed to be synchronous and the result of evaluating the script will be returned.

Usage

executeScript(remDr, script, args = list(), replace = TRUE, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
script character: The script to inject.
args The arguments of the script as a list.
replace logical: If TRUE any elements identify as web Elements are converted to such.
... Additional function arguments - Currently passes the retry argument.
executeScript

Value

If replace is TRUE parses the response from the server for web Elements and converts as such. Otherwise the content returned is assumed to be a simple list.

See Also

Other documentHandling functions: executeAsyncScript, getPageSource

Examples

## Not run:
remDr <- remoteDr()
# Get the page source
remDr %>% go("https://www.google.com/ncr") %>%
  getPageSource
remDr %>% getTitle()
webElem <- remDr %>% findElement("css", "img#hplogo")
# check if the logo is hidden
remDr %>% executeScript("return document.getElementById('hplogo').hidden;", args = list())
# [1] FALSE
# hide the logo
remDr %>% executeScript("document.getElementById('hplogo').hidden = true;", args = list())
# Make the logo visible this time passing a web Element as an argument
remDr %>% executeScript(script = "return arguments[0].hidden = false;", args = list(webElem))
# Pass arguments
remDr %>% executeScript(script = "return argument[1] + argument[2];"
  , args = list(1, 2))
# Return a web Element
remDr %>% executeScript(script = "return document.getElementById('hplogo');", args = list())
# ElementId: 0
# Remote Driver:
# Remote Ip Address: http://localhost:4444/wd/hub
# Remote sessionId: 9a83672a-d72b-4873-aa7d-96f7f1f80fa0
# Return a web Element in a more complex object
script <- "var test = {num:1, str: 'a', el: document.getElementById('hplogo')};return test;"
dString <- remDr %>% executeScript(script = script
  , args = list())
dString
$str
[1] "a"
#
$num
[1] 1
#
$el
# ElementId: 0
# Remote Driver:
# Remote Ip Address: http://localhost:4444/wd/hub
# Remote sessionId: 9a83672a-d72b-4873-aa7d-96f7f1f80fa0
executeScriptOld

Execute JavaScript asynchronously on browser.

**Description**

executeScriptOld This function uses the old JSONwireprotocol end points. Inject a snippet of JavaScript into the page for execution in the context of the currently selected frame. The executed script is assumed to be synchronous and the result of evaluating the script will be returned.

**Usage**

executeScriptOld(remDr, script, args = list(), replace = TRUE, ...)

**Arguments**

- **remDr**: An object of class "rDriver". A remote driver object see remoteDr.
- **script**: character: The script to inject.
- **args**: The arguments of the script as a list.
- **replace**: logical: If TRUE any elements identify as web Elements are converted to such.
- **...**: Additional function arguments - Currently passes the retry argument.
findElement

Value

If replace is TRUE parses the response from the server for web Elements and converts as such. Otherwise the content returned is assumed to be a simple list.

See Also

Other oldMethods functions: acceptAlertOld, dismissAlertOld, executeAsyncScriptOld, getAlertTextOld, getWindowHandleOld, getWindowHandlesOld, getWindowPositionOld, getWindowSizeOld, maximizeWindowOld, sendAlertTextOld, setWindowPositionOld, setWindowSizeOld

Examples

## Not run:
# functions in this group are using the old JSONwireprotocol end points

## End(Not run)

--

findElement Search for an element on the page

Description

findElement Search for an element on the page, starting from the document root. The located element will be returned as an object of "wElement" class

Usage

findElement(remDr, using = c("xpath", "css selector", "id", "name", "tag name", "class name", "link text", "partial link text"), value, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
using Locator scheme to use to search the element, available schemes: "class name", "css selector", "id", "name", "link text", "partial link text", "tag name", "xpath". Defaults to 'xpath'. Partial string matching is accepted.
value The search target. See examples.
... Additional function arguments - Currently passes the retry argument.

Details

Details of possible locator schemes

"class name" : Returns an element whose class name contains the search value; compound class names are not permitted.
"css selector" : Returns an element matching a CSS selector.
"id" : Returns an element whose ID attribute matches the search value.
"name" : Returns an element whose NAME attribute matches the search value.
"link text" : Returns an anchor element whose visible text matches the search value.
"partial link text" : Returns an anchor element whose visible text partially matches the search value.
"tag name" : Returns an element whose tag name matches the search value.
"xpath" : Returns an element matching an XPath expression.

Value

invisible(wbElement(resValue, remDr)): An object of class "wElement" is invisibly returned. A
webElement object see wbElement. This allows for chaining from this function to other functions
that take such an object as an argument. See examples for further details.

See Also

Other elementRetrieval functions: findElementFromElement, findElementsFromElement, findElements,
getAddressElement

Examples

## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# find the search form query box and search for "R project"
webElem <- remDr %>% findElement("name", "q") %>%
  elementSendKeys("R project", key = "enter")
# click the first link hopefully should be www.r-project.org
remDr %>% findElement("css", "h3.r a") %>% elementClick

# get the navigation div
navElem <- remDr %>% findElement("css", "div[role='navigation']")

# find all the links in this div
navLinks <- navElem %>% findElementsFromElement("css", "a")

# check the links
nLinks <- sapply(navLinks, function(x) x %>% getEle

# compare with all links
allLinks <- remDr %>% findElements("css", "a")
aLinks <- sapply(allLinks, function(x) x %>% getEle

# show the effect of searching for elements from element
aLinks %in% nLinks

remDr %>% deleteSession

## End(Not run)
**findElementFromElement**

*Search for an element on the page, starting from another element*

**Description**

`findElementFromElement` Search for an element on the page, starting from the node defined by the parent `webElement`. The located element will be returned as an object of `webElement` class.

**Usage**

```
findElementFromElement(webElem, using = c("xpath", "css selector", "id", "name", "tag name", "class name", "link text", "partial link text"), value, ...)
```

**Arguments**

- `webElem`: An object of class "wElement". A web Element object see `wbElement`.
- `using`: Locator scheme to use to search the element, available schemes: "class name", "css selector", "id", "name", "tag name", "class name", "link text", "partial link text", "xpath". Defaults to 'xpath'. Partial string matching is accepted.
- `value`: The search target. See examples.
- `...`: Additional function arguments - Currently passes the `retry` argument.

**Details**

Details of possible locator schemes

- "**class name**": Returns an element whose class name contains the search value; compound class names are not permitted.
- "**css selector**": Returns an element matching a CSS selector.
- "**id**": Returns an element whose ID attribute matches the search value.
- "**name**": Returns an element whose NAME attribute matches the search value.
- "**link text**": Returns an anchor element whose visible text matches the search value.
- "**partial link text**": Returns an anchor element whose visible text partially matches the search value.
- "**tag name**": Returns an element whose tag name matches the search value.
- "**xpath**": Returns an element matching an XPath expression.

**Value**

`invisible(wbElement(res$value, webElem$remDr))`: An object of class "wElement" is invisibly returned. A `webElement` object see `wbElement`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.
findElements

Search for multiple elements on the page

Description

findElements Search for multiple elements on the page, starting from the document root. The located elements will be returned as a list of objects of class wElement.

Usage

```r
findElements(remDr, using = c("xpath", "css selector", "id", "name", 
  "tag name", "class name", "link text", "partial link text"), value, ...)
```
findElements

Arguments

remDr  An object of class "rDriver". A remote driver object see remoteDr.

using  Locator scheme to use to search the element, available schemes: "class name", "css selector", "id", "name", "link text", "partial link text", "tag name", "xpath". Defaults to 'xpath'. Partial string matching is accepted.

value  The search target. See examples.

Details

Details of possible locator schemes

"class name"  : Returns an element whose class name contains the search value; compound class names are not permitted.

"css selector"  : Returns an element matching a CSS selector.

"id"  : Returns an element whose ID attribute matches the search value.

"name"  : Returns an element whose NAME attribute matches the search value.

"link text"  : Returns an anchor element whose visible text matches the search value.

"partial link text"  : Returns an anchor element whose visible text partially matches the search value.

"tag name"  : Returns an element whose tag name matches the search value.

"xpath"  : Returns an element matching an XPath expression.

Value

invisible(lapply(res$value, wbElement, remDr = remDr)): A list of objects of class "wElement" is invisibly returned. A webElement object see wbElement. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other elementRetrieval functions: findElementFromElement, findElementsFromElement, findElement, getActiveElement

Examples

## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# find the search form query box and search for "R project"
webElem <- remDr %>% findElement("name", "q") %>%
elementSendKeys("R project", key = "enter")
# click the first link hopefully should be www.r-project.org
remDr %>% findElement("css", "h3.r a") %>% elementClick

# get the navigation div
findElementsFromElement

Search for multiple elements on the page, starting from another element.

**Description**

`findElementsFromElement` Search for multiple elements on the page, starting from the node defined by the parent `webElement`. The located elements will be returned as a list of objects of class `webElement`.

**Usage**

```r
findElementsFromElement(webElem, using = c("xpath", "css selector", "id", "name", "tag name", "class name", "link text", "partial link text"), value, ...
```

**Arguments**

- `webElem` An object of class "webElement". A web Element object see `webElement`.
- `using` Locator scheme to use to search the element, available schemes: "class name", "css selector", "id", "name", "tag name", "class name", "link text", "partial link text", "tag name", "xpath". Defaults to 'xpath'. Partial string matching is accepted.
- `value` The search target. See examples.
- `...` Additional function arguments - Currently passes the `retry` argument.
findElementsFromElement

Details

Details of possible locator schemes

"class name" : Returns an element whose class name contains the search value; compound class names are not permitted.
"css selector" : Returns an element matching a CSS selector.
"id" : Returns an element whose ID attribute matches the search value.
"name" : Returns an element whose NAME attribute matches the search value.
"link text" : Returns an anchor element whose visible text matches the search value.
"partial link text" : Returns an anchor element whose visible text partially matches the search value.
"tag name" : Returns an element whose tag name matches the search value.
"xpath" : Returns an element matching an XPath expression.

Value

invisible(lapply(res$value, wbElement, remDr = webElem$remDr)): A list of objects of class "wElement" is invisibly returned. A webElement object see wbElement. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other elementRetrieval functions: findElementFromElement, findElements, findElement, getActiveElement

Examples

## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# find the search form query box and search for "R project"
webElem <- remDr %>% findElement("name", "q") %>%
elementSendKeys("R project", key = "enter")

# click the first link hopefully should be www.r-project.org
remDr %>% findElement("css", "h3.r a") %>% elementClick

# get the navigation div
navElem <- remDr %>% findElement("css", "div[role='navigation']")

# find all the links in this div
navLinks <- navElem %>% findElementsFromElement("css", "a")

# check the links
nlLinks <- sapply(navLinks, function(x) x %>% getElementText)

# compare with all links
allLinks <- remDr %>% findElements("css", "a")
alLinks <- sapply(allLinks, function(x) x %>% getElementText)
forward

# show the effect of searching for elements from element
aLinks %in% nLinks
remDr %>% deleteSession

## End(Not run)

### forward

Navigate forwards

#### Description

forward Navigate forwards in the browser history, if possible.

#### Usage

forward(remDr, ...)

#### Arguments

- **remDr**: An object of class "rDriver". A remote driver object see remoteDr.
- **...**: Additional function arguments - Currently passes the retry argument.

#### Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

#### See Also

Other navigation functions: back, getCurrentUrl, getTitle, go, refresh

#### Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# get the title
remDr %>% getTitle

# get the current page url
remDr %>% getCurrentUrl

# navigate
remDr %>% go("http://www.bbc.co.uk")
```
# go back
remDr %>% (seleniumPipes::back)

# go forward
remDr %>% forward

# refresh page
remDr %>% refresh

# close browser
remDr %>% deleteSession

## End(Not run)

---

**fullscreenWindow**  
Make current window full-screen

### Description

fullscreenWindow The Fullscreen Window command invokes the window manager-specific “full screen” operation, if any, on the window containing the current top-level browsing context. This typically increases the window to the size of the physical display and can hide browser UI elements such as toolbars.

### Usage

```r
fullscreenWindow(remDr, ...)
```

### Arguments

- **remDr**: An object of class "rDriver". A remote driver object see `remoteDr`.
- **...**: Additional function arguments - Currently passes the `retry` argument.

### Value

`invisible(remDr)`: An object of class "rDriver" is invisibly returned. A remote driver object see `remoteDr`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

### See Also

Other commandContexts functions: `closeWindow`, `getWindowHandles`, `getWindowHandle`, `getWindowPosition`, `getWindowSize`, `maximizeWindow`, `setWindowPosition`, `setWindowSize`, `switchToFrame`, `switchToParentFrame`, `switchToWindow`
Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld

# Set the window size
remDr %>% setWindowSize(500, 500)

# Some browsers are still using the old JSON wire end points
remDr %>% setWindowSizeOld(500, 500)

# Set the position of the window
remDr %>% setWindowPositionOld(400, 100)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowPositionOld(400, 100)

# Maximise the window
remDr %>% maximizeWindow
# Some browsers are still using the old JSON wire end points
# remDr %>% maximizeWindowOld()

remDr %>% go("http://www.google.com/ncr")
# search for the "R project"
remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")

webElem <- remDr %>% findElement("css", "h3.r a")
remDr %>% deleteSession

## End(Not run)
```

getActiveElement  
Get the element on the page that currently has focus.
**getActiveElement**

**Description**

getActiveElement Get the element on the page that currently has focus. The located element will be returned as a WebcElement object.

**Usage**

getActiveElement(remDr, ...)

**Arguments**

- **remDr**: An object of class "rDriver". A remote driver object see `remoteDr`.
- **...**: Additional function arguments - Currently passes the `retry` argument.

**Value**

invisible(wbElement(res$value, remDr)): An object of class "wElement" is invisibly returned. A webElement object see `wbElement`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

**See Also**

Other elementRetrieval functions: `findFirstElement`, `findElementsFromElement`, `findElements`, `findFirstElement`

**Examples**

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# find the search form query box and search for "R project"
webElem <- remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")
# click the first link hopefully should be www.r-project.org
remDr %>% findElement("css", "h3.r a") %>% elementClick

# get the navigation div
navElem <- remDr %>% findElement("css", "div[role='navigation']")

# find all the links in this div
navLinks <- navElem %>% findElementsFromElement("css", "a")

# check the links
nLinks <- sapply(navLinks, function(x) x %>% getElementText)

# compare with all links
allLinks <- remDr %>% findElements("css", "a")
alinks <- sapply(allLinks, function(x) x %>% getElementText)

# show the effect of searching for elements from element
alinks %in% nLinks
```
getAlertText

Description
getAlertText Get the text from a JavaScript alert.

Usage
getAlertText(remDr, ...)

Arguments
remDr An object of class "rDriver". A remote driver object see remoteDr.
...
Additonal function arguments - Currently passes the retry argument.

Value
The text from the alert is returned.

See Also
Other userPrompts functions: acceptAlert, dismissAlert, sendAlertText

Examples
## Not run:
remDr <- remoteDr()
remDr %>% go("https://www.google.com/ncr") %>%
  getTitle()
sScript <- "setTimeout(function(){alert('HELLO'),1000); return 'DONE';"
remDr %>% executeScript(sScript, args = list())
remDr %>% dismissAlert()

sScript <- "setTimeout(function(){confirm('Press a button'),1000); return 'DONE';"
remDr %>% executeScript(sScript, args = list())
remDr %>% acceptAlert()

sScript <- "setTimeout(function(){confirm('Press a button'),1000); return 'DONE';"
remDr %>% executeScript(sScript, args = list())
remDr %>% getAlertText()
remDr %>% dismissAlert()
getAlertTextOld

sScript <- "setTimeout(function(){prompt('Please enter your name', ''),1000); return 'DONE';";
remDr %>% executeScript(sScript, args = list())
remDr %>% getAlertText()
remDr %>% sendAlertText("Buck Rogers?")
remDr %>% deleteSession()

## End(Not run)

---

**getAlertTextOld**

*Get alert text*

**Description**

getAlertTextOld Get the text from a JavaScript alert. This uses the old JSONwireprotocol endpoints.

**Usage**

getAlertTextOld(remDr, ...)

**Arguments**

remDr An object of class "rDriver". A remote driver object see remoteDr.

... Additional function arguments - Currently passes the retry argument.

**Value**

The alert text is returned as a string.

**See Also**

Other oldMethods functions: acceptAlertOld, dismissAlertOld, executeAsyncScriptOld, executeScriptOld, getWindowHandleOld, getWindowHandlesOld, getWindowPositionOld, getWindowSizeOld, maximizeWindowOld, sendAlertTextOld, setWindowPositionOld, setSizeOld

**Examples**

## Not run:
# functions in this group are using the old JSONwireprotocol end points

## End(Not run)
getAllCookies

Get all current domain cookies

Description

ggetAllCookies Get all the cookies for the current domain.

Usage

ggetAllCookies(remDr, ...) 

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
...
Additonal function arguments - Currently passes the retry argument.

Value

A list of all the cookies on the current domain are returned. These cookies have values as stipulated by the arguments given in addCookie.

See Also

Other cookies functions: addCookie, deleteAllCookies, deleteCookie, getNamedCookie

Examples

## Not run:
# assume a server is running at default location
remDr <- remoteDr()
remDr %>% go("https://www.google.com/ncr") %>%
  getTitle()
# get the cookies
remDr %>% getCookie()
# get a named cookie
remDr %>% getCookie("NID")
# add our own cookie
remDr %>% addCookie(name = "myCookie", value = "12")
# check its value
remDr %>% getCookie("myCookie")
# delete our cookie
remDr %>% deleteCookie("myCookie")
# check its deleted
remDr %>% getCookie("myCookie")

# delete all cookies
remDr %>% getCookie()
remDr %>% deleteAllCookies() %>%
  getCookie()
**getcurrentUrl**

remDr %>% deleteSession()

## End(Not run)

---

**getcurrentUrl**

*Retrieve the URL of the current page.*

**Description**

`getcurrentUrl` Retrieve the URL of the current page.

**Usage**

`getcurrentUrl(remDr, ...)`

**Arguments**

- `remDr`
  - An object of class "rDriver". A remote driver object see `remoteDr`.
- `...`
  - Additional function arguments - Currently passes the `retry` argument.

**Value**

A character string is returned giving the current page URL.

**See Also**

Other navigation functions: `back, forward, getTitle, go, refresh`

**Examples**

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# get the title
remDr %>% getTitle

# get the current page url
remDr %>% getCurrentUrl

# navigate
remDr %>% go("http://www.bbc.co.uk")

# go back
remDr %>% (seleniumPipes::back)

# go forward
remDr %>% forward
```
getElementAttribute

Get the value of an element’s attribute.

Description

getElementAttribute Get the value of an element’s attribute.

Usage

getElementAttribute(webElem, attribute, ...)

Arguments

webElem An object of class "wElement". A web Element object see wbElement.
attribute The attribute to query as a character string.
... Additional function arguments - Currently passes the retry argument.

Value

The value of the attribute, or null if it is not set on the element.

See Also

Other elementState functions: getElementCssValue, getElementProperty, getElementRect, getElementTagName, getElementText, isElementEnabled, isElementSelected

Examples

## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# select the search box
searchElem <- remDr %>% findElement("name", "q")

# get the name of our element
searchElem %>% getElementAttribute("name")

# get the css background-color
searchElem %>% getgetElementCssValue("background-color")
blueScript <- "arguments[0].style.backgroundColor = 'blue';"
remDr %>% executeScript(blueScript, list(searchElem))
searchElem %>% getgetElementCssValue("background-color")

# get the javascript property
# searchElem %>% getgetElementProperty("backgroundColor")

# get dimensions
searchElem %>% getgetElementRect

searchElem %>% getgetElementTagName

# get some text and return it
remDr %>% go("http://r-project.org")
remDr %>% findElement("css", "h1") %>% getgetElementText

# close browser
remDr %>% deleteSession

## End(Not run)

genericTextElement

**getElementCssValue**

Query the value of an element’s computed CSS property.

---

**Description**

genericTextElement Query the value of an element’s computed CSS property. The CSS property to query should be specified using the CSS property name, not the JavaScript property name (e.g. backgroundColor instead of backgroundColor).

**Usage**

genericTextElement(webElem, propertyName, ...)

**Arguments**

- **webElem**: An object of class "wElement". A web Element object see `wbElement`.
- **propertyName**: The property to query as a character string
- **...**: Additional function arguments - Currently passes the `retry` argument.

**Value**

The value of the specified CSS property.

**See Also**

Other elementState functions: `getElementAttribute`, `getElementProperty`, `getElementRect`, `getElementTagName`, `getElementText`, `isElementEnabled`, `isElementSelected`
## Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# select the search box
searchElem <- remDr %>% findElement("name", "q")

# get the name of our element
searchElem %>% getElementAttribute("name")

# get the css background-color
searchElem %>% getElementCssValue("background-color")
blueScript <- "arguments[0].style.backgroundColor = \"blue\";"
remDr %>% executeScript(blueScript, list(searchElem))
searchElem %>% getElementCssValue("background-color")

# get the javascript property
# searchElem %>% getElementProperty("backgroundColor")

# get dimensions
searchElem %>% getElementRect

searchElem %>% getElementTagName

# get some text and return it
remDr %>% go("http://r-project.org")
remDr %>% findElement("css", "h1") %>% getElementText

# close browser
remDr %>% deleteSession

## End(Not run)
```

---

**getElementProperty**  
*Query the value of an elements property.*

## Description

gElementProperty Query the value of an elements property.

## Usage

gElementProperty(webElem, property, ...)

## Arguments

- **webElem**: An object of class "wElement". A web Element object see `wbElement`. 
property The property to query as a character string

Value

The value of the elements specified property.

See Also

Other elementState functions: `getElementAttribute`, `getElementCssValue`, `getElementRect`, `getElementTagName`, `getElementText`, `isElementEnabled`, `isElementSelected`

Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# select the search box
searchElem <- remDr %>% findElement("name", "q")

# get the name of our element
searchElem %>% getElementAttribute("name")

# get the css background-color
searchElem %>% getElementCssValue("background-color")
blueScript <- "arguments[0].style.backgroundColor = 'blue';"
remDr %>% executeScript(blueScript, list(searchElem))
searchElem %>% getElementCssValue("background-color")

# get the javascript property
# searchElem %>% getElementProperty("backgroundColor")

# get dimensions
searchElem %>% getElementRect

searchElem %>% getElementTagName

# get some text and return it
remDr %>% go("http://r-project.org")
remDr %>% findElement("css", "h1") %>% getElementText

# close browser
remDr %>% deleteSession

## End(Not run)
```
getElementRect  
Return the dimensions and coordinates of an element

Description

gElementRect The getElementRect function returns the dimensions and coordinates of the given web element.

Usage

gElementRect(webElem, ...)

Arguments

webElem An object of class "wElement". A web Element object see wbElement.
...
Additonal function arguments - Currently passes the retry argument.

Value

The returned value is a list including the following members:

x  X axis position of the top-left corner of the web element relative to the current browsing context’s document element in CSS reference pixels.
y  Y axis position of the top-left corner of the web element relative to the current browsing context’s document element in CSS reference pixels.

height  Height of the web element’s bounding rectangle in CSS reference pixels.
width  Width of the web element’s bounding rectangle in CSS reference pixels.

See Also

Other elementState functions: getElementAttribute, getElementCssValue, getElementProperty, getElementTagName, getElementText, isElementEnabled, isElementSelected

Examples

## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# select the search box
searchElem <- remDr %>% findElement("name", "q")

# get the name of our element
searchElem %>% getElementAttribute("name")

# get the css background-color
searchElem %>% getElementCssValue("background-color")
blueScript <- "arguments[0].style.backgroundColor = 'blue';"
getElementTagName  

Query for an element’s tag name.

Description

gerElementTagName Query for an element’s tag name.

Usage

gerElementTagName(webElem, ...)

Arguments

webElem An object of class "wElement". A web Element object see wbElement.
...
Additonal function arguments - Currently passes the retry argument.

Value

The element’s tag name, as a lowercase character string.

See Also

Other elementState functions: getElementAttribute, getElementCssValue, getElementProperty, getElementRect, getElementText, isElementEnabled, isElementSelected
getElementText

Returns the visible text for the element.

description
gElementText Returns the visible text for the element.

usage
gElementText(webElem, ...)

arguments

webElem An object of class "wElement". A web Element object see wbElement.

... Additional function arguments - Currently passes the retry argument.
getNamedCookie

Value

The visible text for an element is returned as a character string.

See Also

Other elementState functions: getElementAttribute, getElementCssValue, getElementProperty, getElementRect, getElementTagName, isElementEnabled, isElementSelected

Examples

## Not run:
```r
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# select the search box
searchElem <- remDr %>% findElement("name", "q")

# get the name of our element
searchElem %>% getElementAttribute("name")

# get the css background-color
searchElem %>% getElementCssValue("background-color")
blueScript <- "arguments[0].style.backgroundColor = "blue";"
remDr %>% executeScript(blueScript, list(searchElem))
searchElem %>% getElementCssValue("background-color")

# get the javascript property
# searchElem %>% getElementProperty("backgroundColor")

# get dimensions
searchElem %>% getElementRect

searchElem %>% getElementTagName

# get some text and return it
remDr %>% go("http://r-project.org")
remDr %>% findElement("css", "h1") %>% getElementText

# close browser
remDr %>% deleteSession
## End(Not run)
```

---

getNamedCookie: Get a named cookie

Description

getNamedCookie Get the cookie with a given name.
Usage

getNamedCookie(remDr, name = NULL, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
name character: The name of the cookie; may not be null or an empty string
... Additional function arguments - Currently passes the retry argument.

Value

A named cookies from the current domain is returned if it exists. These cookies have values as stipulated by the arguments given in addCookie.

See Also

Other cookies functions: addCookie, deleteAllCookies, deleteCookie, getAllCookies

Examples

## Not run:
# assume a server is running at default location
remDr <- remoteDr()
remDr %>% go("https://www.google.com/ncr") %>%
  getTitle()
# get the cookies
remDr %>% getCookie()
# get a named cookie
remDr %>% getCookie("NID")
# add our own cookie
remDr %>% addCookie(name = "myCookie", value = "12")
# check its value
remDr %>% getCookie("myCookie")
# delete our cookie
remDr %>% deleteCookie("myCookie")
# check its deleted
remDr %>% getCookie("myCookie")

# delete all cookies
remDr %>% getCookie()
remDr %>% deleteAllCookies() %>%
  getCookie()

remDr %>% deleteSession()

## End(Not run)
getPageSource

Get source of last page.

Description

getPageSource Get the source of the last loaded page.

Usage

getPageSource(remDr, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.

... Additional function arguments - Currently passes the retry argument.

Value

read_html(res$value): An xml document is returned. The content from the remote webdriver is parsed (see read_html) and returned as xml.

See Also

Other documentHandling functions: executeAsyncScript, executeScript

Examples

## Not run:
remDr <- remoteDr()
# Get the page source
remDr %>% go("https://www.google.com/nr") %>%
  getPageSource

remDr %>% getTitle()
webElem <- remDr %>% findElement(  "css",  "img#hplogo")
# check if the logo is hidden
remDr %>% executeScript("return document.getElementById('hplogo').hidden;", args = list())
# [1] FALSE
# hide the logo
remDr %>% executeScript("document.getElementById('hplogo').hidden = true;", args = list())
# Make the logo visible this time passing a web Element as an argument
remDr %>% executeScript(script = "return arguments[0].hidden = false;", args = list(webElem))

# Pass arguments
remDr %>% executeScript(script = "return arguments[1] + arguments[2];"
   , args = list(1, 2))

# Return a web Element
remDr %>% executeScript(script = "return document.getElementById('hplogo');", args = list())
getTitle

Get the current page title.
getTitle

Description
getTitle Get the current page title.

Usage
getTitle(remDr, ...)

Arguments
remDr An object of class "rDriver". A remote driver object see remoteDr.
... Additonal function arguments - Currently passes the retry argument.

Value
The title of the current page is returned as a character string.

See Also
Other navigation functions: back, forward, getCurrentUrl, go, refresh

Examples
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

  # get the title
  remDr %>% getTitle

  # get the current page url
  remDr %>% getCurrentUrl

  # navigate
  remDr %>% go("http://www.bbc.co.uk")

  # go back
  remDr %>% (seleniumPipes::back)

  # go forward
  remDr %>% forward

  # refresh page
  remDr %>% refresh

  # close browser
  remDr %>% deleteSession

## End(Not run)
getWindowHandle

Retrieve the current window handle.

Usage

getWindowHandle(remDr, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
...
Additonal function arguments - Currently passes the retry argument.

Value

Returns a string which is the "handle" for the current window.

See Also

Other commandContexts functions: closeWindow, fullscreenWindow, getWindowHandles, getWindowPosition, getWindowSize, maximizeWindow, setPosition, setSize, switchToFrame, switchToParentFrame, switchToWindow

Examples

## Not run:
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld

# Set the window size
remDr %>% setSize(500, 500)

# Some browsers are still using the old JSON wire end points
getWindowHandleOld

Retrieve the current window handle.

Description

ggetWindowHandleOld Retrieve the current window handle. Uses the old JSON wire protocol end points.

Usage

ggetWindowHandleOld(remDr, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.

Additional function arguments - Currently passes the retry argument.

Value

Returns a string which is the "handle" for the current window.

See Also

Other oldMethods functions: acceptAlertOld, dismissAlertOld, executeAsyncScriptOld, executeScriptOld, getAlertTextOld, getWindowHandlesOld, getWindowPositionOld, getWindowSizeOld, maximizeWindowOld, sendAlertTextOld, setWindowPositionOld, setSizeOld
getWindowHandles

GetWindowHandles

Get all window handles.

Description

getWindowHandles Retrieve the list of all window handles available to the session.

Usage

getWindowHandles(remDr, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.

... Additional function arguments - Currently passes the retry argument.

Value

Returns a list of windows handles. Each element of the list is a string. The order window handles are returned is arbitrary.

See Also

Other commandContexts functions: closeWindow, fullscreenWindow, getWindowHandle, getWindowPosition, getWindowSize, maximizeWindow, setWindowPosition, setWindowSize, switchToFrame, switchToParentFrame, switchToWindow

Examples

## Not run:
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
### getWindowHandlesOld

Get all window handles.

**Description**

`getWindowHandlesOld` uses the old JSON wire protocol endpoints. Retrieve the list of all window handles available to the session.

**Usage**

`getWindowHandlesOld(remDr, ...)`

**Arguments**

- `remDr` An object of class "rDriver". A remote driver object see `remoteDr`.
- `...` Additional function arguments - Currently passes the `retry` argument.
getWindowPosition

**Value**

Returns a list of windows handles. Each element of the list is a string. The order window handles are returned is arbitrary.

**See Also**

Other oldMethods functions: `acceptAlertOld, dismissAlertOld, executeAsyncScriptOld, executeScriptOld, getAlertTextOld, getWindowHandleOld, getWindowPositionOld, getWindowSizeOld, maximizeWindowOld, sendAlertTextOld, setWindowPositionOld, setSizeOld`

**Examples**

```r
## Not run:
# functions in this group are using the old JSONwireprotocol end points

## End(Not run)
```

---

**getWindowPosition** *Get current window position*

**Description**

`getWindowPosition` The Get Window Position command returns the position on the screen of the operating system window corresponding to the current top-level browsing context.

**Usage**

```r
ggetWindowPosition(remDr, ...)
```

**Arguments**

- `remDr` An object of class "rDriver". A remote driver object see `remoteDr`.
- `...` Additional function arguments - Currently passes the `retry` argument.

**Value**

Returns a list which contains the x coordinate to position the window at, relative to the upper left corner of the screen and the Y coordinate to position the window at, relative to the upper left corner of the screen.

**See Also**

Other commandContexts functions: `closeWindow, fullscreenWindow, getWindowHandles, getWindowHandle, getWindowSize, maximizeWindow, setWindowPosition, setSize, switchToFrame, switchToParentFrame, switchToWindow`
## Not run:
```r
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld

# Set the window size
remDr %>% setWindowSize(500, 500)

# Some browsers are still using the old JSON wire end points
remDr %>% setWindowSizeOld(500, 500)

# Set the position of the window
remDr %>% setWindowPositionOld(400, 100)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowPositionOld(400, 100)

# Maximise the window
remDr %>% maximizeWindow

# Some browsers are still using the old JSON wire end points
# remDr %>% maximizeWindowOld()

remDr %>% go("http://www.google.com/ncr")
# search for the "R project"
remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")
webElem <- remDr %>% findElement("css", "h3.r a")
remDr %>% deleteSession
```

## End(Not run)
getWindowSize

Description

getWindowSize Get the position of the specified window. Uses the old JSONwireprotocol end points.

Usage

getWindowPositionOld(remDr, handle = "current", ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
handle Handle of the window to query. If handle = "current" (the default) the current window is used.
... Additonal function arguments - Currently passes the retry argument.

Value

Returns a list which contains the x coordinate to position the window at, relative to the upper left corner of the screen and the Y coordinate to position the window at, relative to the upper left corner of the screen

See Also

Other oldMethods functions: acceptAlertOld, dismissAlertOld, executeAsyncScriptOld, executeScriptOld, getAlertTextOld, getWindowHandleOld, getWindowHandlesOld, getWindowSizeOld, maximizeWindowOld, sendAlertTextOld, setWindowPositionOld, setSizeWindowOld

Examples

## Not run:
# functions in this group are using the old JSONwireprotocol end points

## End(Not run)

---

getWindowSize  getWindowSize

Description

gWindowSize

Usage

getWindowSize(remDr, ...)

---
getWindowSize

Arguments

remDr  An object of class "rDriver". A remote driver object see remoteDr.
...  Additional function arguments - Currently passes the retry argument.

Value

The width and height of the window are returned as elements in a list.

See Also

Other commandContexts functions: closeWindow, fullscreenWindow, getWindowHandles, getWindowHandle, getWindowPosition, maximizeWindow, setWindowPosition, setWindowSize, switchToFrame, switchToParentFrame, switchToWindow

Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld

# Set the window size
remDr %>% setWindowSize(500, 500)

# Some browsers are still using the old JSON wire end points
remDr %>% setWindowSizeOld(500, 500)

# Set the position of the window
remDr %>% setWindowPositionOld(400, 100)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowPositionOld(400, 100)

# Maximise the window
remDr %>% maximizeWindow
# Some browsers are still using the old JSON wire end points
# remDr %>% maximizeWindowOld()

remDr %>% go("http://www.google.com/ncr")
```
# search for the "R project"
remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")

webElem <- remDr %>% findElement("css", "h3.r a")
remDr %>% deleteSession

## End(Not run)

getWindowSizeOld

Get window size

Description

getWindowSizeOld Get the size of the specified window. Uses the old JSONwireprotocol end points.

Usage

getWindowSizeOld(remDr, handle = "current", ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
handle Handle of the window to query. If handle = "current" (the default) the current window is used.
... Additonal function arguments - Currently passes the retry argument.

Value

The width and height of the window are returned as elements in a list.

See Also

Other oldMethods functions: acceptAlertOld, dismissAlertOld, executeAsyncScriptOld, executeScriptOld, getAlertTextOld, getWindowHandleOld, getWindowHandlesOld, getWindowPositionOld, maximizeWindowOld, sendAlertTextOld, setWindowPositionOld, setWindowSizeOld

Examples

## Not run:
# functions in this group are using the old JSONwireprotocol end points

## End(Not run)
**go**

*Navigate to a new URL.*

---

**Description**

Navigate to a new URL.

**Usage**

```
go(remDr, url, ...)
```

**Arguments**

- `remDr`: An object of class "rDriver". A remote driver object see `remoteDr`.
- `url`: The URL to navigate to.
- `...`: Additional function arguments - Currently passes the `retry` argument.

**Value**

`invisible(remDr)`: An object of class "rDriver" is invisibly returned. A remote driver object see `remoteDr`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

**See Also**

Other navigation functions: `back`, `forward`, `getCurrentUrl`, `getTitle`, `refresh`

**Examples**

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# get the title
remDr %>% getTitle

# get the current page url
remDr %>% getCurrentUrl

# navigate
remDr %>% go("http://www.bbc.co.uk")

# go back
remDr %>% (seleniumPipes::back)

# go forward
remDr %>% forward

# refresh page
```
remDr %>% refresh

# close browser
remDr %>% deleteSession

## End(Not run)

---

**isElementEnabled**  
*Determine if an element is currently enabled.*

**Description**

*isElementEnabled* Determine if an element is currently enabled.

**Usage**

```
isElementEnabled(webElem, ...)
```

**Arguments**

- `webElem`: An object of class "wElement". A web Element object see `wbElement`
- `...`: Additional function arguments - Currently passes the `retry` argument.

**Value**

A logical value is returned indicating whether the element is enabled.

**See Also**

Other `elementState` functions: `getElementAttribute, getElementCssValue, getElementProperty, getElementRect, getElementTagName, getElementText, isElementSelected`

**Examples**

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# select the search box
searchElem <- remDr %>% findElement("name", "q")

# get the name of our element
searchElem %>% getElementAttribute("name")

# get the css background-color
searchElem %>% getElementCssValue("background-color")
blueScript <- "arguments[0].style.backgroundColor = 'blue';"
remDr %>% executeScript(blueScript, list(searchElem))
```
isElementSelected

Determine if an element is currently selected.

Description

isElementSelected determines if an OPTION element, or an INPUT element of type checkbox or radiobutton is currently selected.

Usage

isElementSelected(webElem, ...)

Arguments

webElem An object of class "wElement". A web Element object see \( \text{wbElement} \).
... Additional function arguments - Currently passes the \( \text{retry} \) argument.

Value

A logical value is returned indicating whether the element is selected.

See Also

Other elementState functions: getElementAttribute, getElementCssValue, getElementProperty, getElementRect, getElementTagName, getElementText, isElementEnabled
maximizeWindow

Maximize the current window.

Description

maximizeWindow Maximize the current if not already maximized.

Usage

maximizeWindow(remDr, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
...

Additonal function arguments - Currently passes the retry argument.
maximizeWindow

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other commandContexts functions: closeWindow, fullscreenWindow, getWindowHandles, getWindowHandle, getWindowPosition, getWindowSize, setWindowPosition, setWindowSize, switchToFrame, switchToParentFrame, switchToWindow

Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld

# Set the window size
remDr %>% setWindowSize(500, 500)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowSizeOld(500, 500)

# Set the position of the window
remDr %>% setWindowPositionOld(400, 100)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowPositionOld(400, 100)

# Maximise the window
remDr %>% maximizeWindow
# Some browsers are still using the old JSON wire end points
# remDr %>% maximizeWindowOld()

remDr %>% go("http://www.google.com/ncr")
# search for the "R project"
remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")
```
maximizeWindowOld

Maximize the current window.

Description

maximizeWindowOld Maximize the specified window if not already maximized.

Usage

maximizeWindowOld(remDr, handle = "current", ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
handle Handle of the window to query. If handle = "current" (the default) the current window is used.
... Additonal function arguments - Currently passes the retry argument.

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other oldMethods functions: acceptAlertOld, dismissAlertOld, executeAsyncScriptOld, executeScriptOld, getAlertTextOld, getWindowHandleOld, getWindowHandlesOld, getWindowPositionOld, getWindowSizeOld, sendAlertTextOld, setWindowPositionOld, setWindowSizeOld

Examples

## Not run:
# functions in this group are using the old JSONwireprotocol end points

## End(Not run)
newSession

Create a new session.

Description

newSession The server should attempt to create a session that most closely matches the desired and required capabilities. Required capabilities have higher priority than desired capabilities and must be set for the session to be created.

Usage

newSession(remDr, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
...
Additonal function arguments - Currently passes the retry argument.

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other sessions functions: deleteSession, setTimeout

Examples

```r
## Not run:
# start a driver without opening a browser
remDr <- remoteDr(newSession = FALSE)

# open a browser
remDr %>% newSession

# set timeout on waiting for elements
remDr %>% setTimeout(type = "implicit", 5000)

# close Session
remDr %>% deleteSession

## End(Not run)
```
performActions

Description
performActions The Perform Actions command allows you to create sequential interactions that can be sent over from the local end to the remote end. This type of interactions allow emulations like drag and drop.

Usage
performActions(remDr, ...)

Arguments
remDr An object of class "rDriver". A remote driver object see remoteDr.
...
Additonal function arguments - Currently passes the retry argument.

Value
invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also
Other interactions functions: releasingActions

Examples
## Not run:
# functions not currently implemented
## End(Not run)

queryDriver

Description
queryDriver A function to send a query to a remote driver. Intended for seleniumPipes internal use mainly.

Usage
queryDriver(verb = GET, url, source, drvID, ...)
**refresh**

Refresh the current page.

**Description**

refresh Refresh the current page.

**Usage**

    refresh(remDr, ...)

**Arguments**

- **remDr**
  An object of class "rDriver". A remote driver object see `remoteDr`.
- ... (Additional function arguments - Currently passes the `retry` argument.)

**Value**

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see `remoteDr`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

**See Also**

Other navigation functions: back, forward, getCurrentUrl, getTitle, go
Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")

# get the title
remDr %>% getTitle

# get the current page url
remDr %>% getCurrentUrl

# navigate
remDr %>% go("http://www.bbc.co.uk")

# go back
remDr %>% (seleniumPipes::back)

# go forward
remDr %>% forward

# refresh page
remDr %>% refresh

# close browser
remDr %>% deleteSession

## End(Not run)
```

---

releasingActions | Not currently implemented

Description

`releasingActions` The Release Actions command is used to cancel all current action chains. This is the equivalent of releasing all modifiers from input sources.

Usage

`releasingActions(remDr, ...)`

Arguments

- `remDr` An object of class "rDriver". A remote driver object see `remoteDr`.
- `...` Additional function arguments - Currently passes the `retry` argument.
Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see `remoteDr`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other interactions functions: `performActions`

Examples

```r
## Not run:
# functions not currently implemented

## End(Not run)
```

---

`remoteDr`  
Create a remote driver

Description

`remoteDr`: Create a remote Driver object

Usage

```r
remoteDr(remoteServerAddr = "http://localhost", port = 4444L,  
  browserName = "firefox", version = "", platform = "ANY",  
  javascript = TRUE, nativeEvents = TRUE, extraCapabilities = list(),  
  path = "wd/hub", newSession = TRUE)
```

Arguments

- `remoteServerAddr`: Object of class "character", giving the ip of the remote server. Defaults to localhost
- `port`: Object of class "integer", the port of the remote server on which to connect
- `browserName`: Object of class "character". The name of the browser being used; choices include chromefirefoxinternetexploreriphonehtmlunit. Defaults to firefox.
- `version`: Object of class "character". The browser version, or the empty string if unknown.
- `platform`: Object of class "character". A key specifying which platform the browser is running on. This value should be one of WINDOWS|XP|VISTA|MAC|LINUX|UNIX. When requesting a new session, the client may specify "ANY" to indicate any available platform may be used.
javascript Object of class "logical". Whether the session supports executing user supplied JavaScript in the context of the current page.

nativeEvents Object of class "logical". Whether the session supports native events. WebDriver advanced user interactions are provided by either simulating the Javascript events directly (i.e. synthetic events) or by letting the browser generate the Javascript events (i.e. native events). Native events simulate the user interactions better.

extraCapabilities A list containing any os/platform/driver specific arguments.

path Path on the server side to issue webdriver calls to. Normally use the default value.

newSession Logical value whether to start an instance of the browser. If TRUE a browser will be opened using newSession

Value
An object of class "rDriver" is returned. This is a remote Driver object that is used in many of the remote driver specific functions. Many functions that take a remote driver object as input also return the remote driver object. This allows chaining of commands. See the examples for chaining in action.

Examples
```r
## Not run:
# assume a server is available at the default location.
remDr <- remoteDr()
remDR %>% go("http://www.google.com") %>%
  findElement("name", "q") %>%
  elementSendKeys("R project", key = "enter")
# close our browser
remDr %>% deleteSession

## End(Not run)
```

retry Documentation of retry argument

Description
The ability to retry function code is enabled by default. retry can be a logical value. if it is TRUE then noTry = getOption("seleniumPipes_no_try") and delay = getOption("seleniumPipes_no_try_delay"). If it is FALSE the facility to have multiple trys of the function call is removed. retry can also be a list with the following named arguments that will override the values in options

"noTry" Integer indicating how many times to try the function call
"delay" Integer indicating delay between trys of the function call
Examples

## Not run:
remDr <- remoteDr()
webElem <- remDr %>% go("http://www.google.com/ncr") %>%
  findElement("name", "q")
# change the name of q with an 8 second delay
myscript <- "var myElem = arguments[0];
window.setTimeout(function(){
  myElem.setAttribute('name','funkyname');
}, 8000);
remDr %>% executeScript(myscript, args = list(webElem))

newWebElem <- remDr %>% findElement("name", "funkyname")
# > newWebElem <- remDr %>% findElement("name", "funkyname")
# # Calling findElement - Try no: 1 of 3
# # Calling findElement - Try no: 2 of 3
newWebElem %>% getElementAttribute("name")
# compare with a function that will fail (no element present)
remDr %>% findElement("id", "i am not here", retry = list(noTry = 5, delay = 10))
remDr %>% findElement("id", "i am not here", retry = FALSE)

## End(Not run)

seleniumPipes

**Implements the W3C webdriver specification.**

Description

Implements the W3C webdriver specification.

Package options

seleniumPipes uses the following **options** to configure behaviour:

- **seleniumPipes_display_screenshot**: Logical value indicating whether to display PNG returned by `takeScreenshot` and `takeElementScreenshot`. Defaults to TRUE
- **seleniumPipes_no_try**: An integer giving the number of time to try calling an endpoint on the Selenium Server. Defaults to 3 attempts
- **seleniumPipes_no_try_delay**: An integer detailing the delay between attempts to call a failing endpoint on the Selenium Server. Defaults to 5000 milliseconds = 5 seconds.
- **seleniumPipes_SL**: A logical value which acts as a flag indicating whether SauceLabs is being used for package testing.
- `seleniumPipes_selOptions`: A list used to store options to pass to `remoteDr` when running tests.
- `seleniumPipes_sauceID`: A character used to store remote session ids when running Sauce-Lab tests on the package.

### selKeys

**Selenium key mappings**

#### Description

This data set contains a list of selenium key mappings. The key mappings are outlined at [https://github.com/SeleniumHQ/selenium/wiki/JsonWireProtocol#sessionsessionidelementidvalue](https://github.com/SeleniumHQ/selenium/wiki/JsonWireProtocol#sessionsessionidelementidvalue). `selKeys` is used when a `sendKeys` variable is needed. `sendKeys` is defined as a list. If an entry is needed from `selKeys` it is denoted by key.

#### Usage

`selKeys`

#### Format

A named list. The names are the descriptions of the keys. The values are the "UTF-8" character representations.

#### Author(s)

John Harrison, 2012-10-05

#### Source


### sendAlertText

**Send text to alert**

#### Description

`sendAlertText` Send keystrokes to JavaScript `prompt()` dialog

#### Usage

`sendAlertText(remDr, text = "", ...)`
sendAlertText

Arguments

remDr  An object of class "rDriver". A remote driver object see remoteDr.
text  A character vector of length 1. In other words a string. The text is passed to the JavaScript alert
...

Additional function arguments - Currently passes the retry argument.

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other userPrompts functions: acceptAlert, dismissAlert, getAlertText

Examples

## Not run:
remDr <- remoteDr()
remDr %>% go("https://www.google.com/ngr") %>%
title()
sscript <- "setTimeout(function(){alert(\"HELLO\"),1000); return \"DONE\";"
remDr %>% executeScript(sscript, args = list())
remDr %>% dismissAlert()

sscript <- "setTimeout(function(){confirm(\"Press a button\"),1000); return \"DONE\";"
remDr %>% executeScript(sscript, args = list())
remDr %>% acceptAlert()

sscript <- "setTimeout(function(){confirm(\"Press a button\"),1000); return \"DONE\";"
remDr %>% executeScript(sscript, args = list())
remDr %>% dismissAlert()

sscript <- "setTimeout(function(){prompt(\"Please enter your name\", \\
\"\"),1000); return \"DONE\";"
remDr %>% executeScript(sscript, args = list())
remDr %>% getAlertText()
remDr %>% dismissAlert()

## End(Not run)
sendAlertTextOld  

Send text to alert

Description

sendAlertTextOld Send keystrokes to JavaScript prompt() dialog. This uses the old JSONwire-protocol endpoints.

Usage

sendAlertTextOld(remDr, text = "", ...)  

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.

text A character vector of length 1. In other words a string. The text is passed to the JavaScript alert

... Additional function arguments - Currently passes the retry argument.

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other oldMethods functions: acceptAlertOld, dismissAlertOld, executeAsyncScriptOld, executeScriptOld, getAlertTextOld, getWindowHandleOld, getWindowsOld, getWindowPositionOld, getWindowSizeOld, maximizeWindowOld, setWindowPositionOld, setWindowSizeOld

Examples

## Not run:
# functions in this group are using the old JSONwire protocol endpoints

## End(Not run)
setTimeout

**Description**

setTimeout Configure the amount of time that a particular type of operation can execute for before they are aborted and a |Timeout| error is returned to the client.

**Usage**

```r
setTimeout(remDr, type = "page load", milliseconds = 10000, ...)
```

**Arguments**

- **remDr**: An object of class "rDriver". A remote driver object see `remoteDr`.
- **type**: The type of operation to set the timeout for. Valid values are: "script" for script timeouts, "implicit" for modifying the implicit wait timeout and "page load" for setting a page load timeout.
- **milliseconds**: The amount of time, in milliseconds, that time-limited commands are permitted to run.
- **...**: Additional function arguments - Currently passes the `retry` argument.

**Value**

`invisible(remDr)`: An object of class "rDriver" is invisibly returned. A remote driver object see `remoteDr`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

**See Also**

Other sessions functions: `deleteSession, newSession`

**Examples**

```r
## Not run:
# start a driver without opening a browser
remDr <- remoteDr(newSession = FALSE)

# open a browser
remDr %>% newSession

# set timeout on waiting for elements
remDr %>% setTimeout(type = "implicit", 5000)

# close Session
remDr %>% deleteSession
```
setWindowPosition

Change the position of the current window.

Description

setWindowPosition Change the position of the current window.

Usage

setWindowPosition(remDr, x, y, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.

x integer The X coordinate to position the window at, relative to the upper left corner of the screen.

y integer The Y coordinate to position the window at, relative to the upper left corner of the screen.

... Additonal function arguments - Currently passes the retry argument.

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other commandContexts functions: closeWindow, fullScreenWindow, getWindowHandles, getWindowHandle, getWindowPosition, getWindowSize, maximizeWindow, setWindowSize, switchToFrame, switchToParentFrame, switchToWindow

Examples

## Not run:

```
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld
```
# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld

# Set the window size
remDr %>% setWindowSize(500, 500)

# Some browsers are still using the old JSON wire end points
remDr %>% setWindowSizeOld(500, 500)

# Set the position of the window
remDr %>% setWindowPositionOld(400, 100)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowPositionOld(400, 100)

# Maximise the window
remDr %>% maximizeWindow
# Some browsers are still using the old JSON wire end points
# remDr %>% maximizeWindowOld()

remDr %>% go("http://www.google.com/ncr")
# search for the "R project"
remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")
webElem <- remDr %>% findElement("css", "h3.r a")
remDr %>% deleteSession

## End(Not run)

---

**setWindowPositionOld**  
*Change the position of the specified window.*

**Description**

*setWindowSize* Change the position of the specified window.

**Usage**

`setWindowPositionOld(remDr, x, y, handle = "current", ...)`

**Arguments**

- `remDr`  
  An object of class "rDriver". A remote driver object see `remoteDr`. 
Description

setWindowSize Change the size of the current window.

Usage

setWindowSize(remDr, width, height, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
width integer The new window width.
height integer The new window height.
... Additonal function arguments - Currently passes the retry argument.
setWindowSize

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other commandContexts functions: closeWindow, fullscreenWindow, getWindowHandles, getWindowHandle, getWindowPosition, getWindowSize, maximizeWindow, setWindowPosition, switchToFrame, switchToParentFrame, switchToWindow

Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld

# Set the window size
remDr %>% setWindowSize(500, 500)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowSizeOld(500, 500)

# Set the position of the window
remDr %>% setWindowPositionOld(400, 100)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowPositionOld(400, 100)

# Maximise the window
remDr %>% maximizeWindow

# Some browsers are still using the old JSON wire end points
# remDr %>% maximizeWindowOld()

remDr %>% go("http://www.google.com/ncr")
# search for the "R project"
remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")
```
webElem <- remDr %>% findElement("css", "h3.r a")
remDr %>% deleteSession
## End(Not run)

setWindowSizeOld  
*Change the size of the specified window.*

**Description**

`setWindowSize` Change the size of the specified window.

**Usage**

```r
setWindowSizeOld(remDr, width, height, handle = "current", ...)
```

**Arguments**

- `remDr`  
  An object of class "rDriver". A remote driver object see `remoteDr`.
- `width`  
  integer The new window width.
- `height`  
  integer The new window height.
- `handle`  
  Handle of the window to query. If handle = "current" (the default) the current window is used.
- `...`  
  Additional function arguments - Currently passes the `retry` argument.

**Value**

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see `remoteDr`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

**See Also**

Other `oldMethods` functions: `acceptAlertOld, dismissAlertOld, executeAsyncScriptOld, executeScriptOld, getAlertTextOld, getWindowHandleOld, getWindowHandlesOld, getWindowPositionOld, getWindowSizeOld, maximizeWindowOld, sendAlertTextOld, setWindowPositionOld`.

**Examples**

```r
## Not run:
# functions in this group are using the old JSONwireprotocol end points

## End(Not run)
```
switchToFrame

Description

switchToFrame Change focus to another frame on the page. If the frame id is null, the server should switch to the page’s default content.

Usage

switchToFrame(remDr, Id = NULL, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
Id string|number|null|WebElement Identifier for the frame to change focus to.
... Additonal function arguments - Currently passes the retry argument.

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other commandContexts functions: closeWindow, fullscreenWindow, getWindowHandles, getWindowHandle, getWindowPosition, getWindowSize, maximizeWindow, setWindowPosition, setWindowSize, switchToParentFrame, switchToWindow

Examples

## Not run:
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld
# Set the window size
remDr %>% setWindowSize(500, 500)

# Some browsers are still using the old JSON wire end points
remDr %>% setWindowSizeOld(500, 500)

# Set the position of the window
remDr %>% setWindowPositionOld(400, 100)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowPositionOld(400, 100)

# Maximise the window
remDr %>% maximizeWindow
# Some browsers are still using the old JSON wire end points
# remDr %>% maximizeWindowold()

remDr %>% go("http://www.google.com/ncr")
# search for the "R project"
remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")
webElem <- remDr %>% findElement("css", "h3.r a")
remDr %>% deleteSession

## End(Not run)

---

**switchToParentFrame**  
*Change focus to the parent context.*

**Description**

**switchToParentFrame** Change focus to the parent context. If the current context is the top level browsing context, the context remains unchanged.

**Usage**

```
switchToParentFrame(remDr, ...)
```

**Arguments**

- **remDr**  
  An object of class "rDriver". A remote driver object see `remoteDr`.

- **...**  
  Additional function arguments - Currently passes the `retry` argument.

**Value**

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see `remoteDr`. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.
See Also

Other commandContexts functions: `closeWindow`, `fullscreenWindow`, `getWindowHandles`, `getWindowHandle`, `getWindowPosition`, `getWindowSize`, `maximizeWindow`, `setWindowPosition`, `setWindowSize`, `switchToFrame`, `switchToWindow`

Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld

# Set the window size
remDr %>% setWindowSize(500, 500)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowSizeOld(500, 500)

# Set the position of the window
remDr %>% setWindowPositionOld(400, 100)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowPositionOld(400, 100)

# Maximise the window
remDr %>% maximizeWindow

# Some browsers are still using the old JSON wire end points
# remDr %>% maximizeWindowOld()

remDr %>% go("http://www.google.com/ncr")
# search for the "R project"
remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")
webElem <- remDr %>% findElement("css", "h3.r a")
remDr %>% deleteSession

## End(Not run)
```
switchToWindow  Change focus to another window.

Description

switchToWindow Change focus to another window.

Usage

switchToWindow(remDr, name, ...)

Arguments

remDr   An object of class "rDriver". A remote driver object see remoteDr.
name    The handle of the window to change focus to.
...     Additonal function arguments - Currently passes the retry argument.

Value

invisible(remDr): An object of class "rDriver" is invisibly returned. A remote driver object see remoteDr. This allows for chaining from this function to other functions that take such an object as an argument. See examples for further details.

See Also

Other commandContexts functions: closeWindow, fullscreenWindow, getWindowHandles, getWindowHandle, getWindowPosition, getWindowSize, maximizeWindow, setWindowPosition, setWindowSize, switchToFrame, switchToParentFrame

Examples

```r
## Not run:
remDr <- remoteDr()
remDr %>% getWindowHandle() # The current window handle
remDr %>% getWindowHandles() # All windows in the session

# Get the window position
remDr %>% getWindowPosition

# Some browsers are still using the old JSON wire end points
remDr %>% getWindowPositionOld

# Get the size of the window
remDr %>% getWindowSize

# Some browsers are still using the old JSON wire end points
# remDr %>% getWindowSizeOld
```
# Set the window size
remDr %>% setWindowSize(500, 500)

# Some browsers are still using the old JSON wire end points
remDr %>% setWindowSizeOld(500, 500)

# Set the position of the window
remDr %>% setWindowPositionOld(400, 100)

# Some browsers are still using the old JSON wire end points
# remDr %>% setWindowPositionOld(400, 100)

# Maximise the window
remDr %>% maximizeWindow
# Some browsers are still using the old JSON wire end points
# remDr %>% maximizeWindowOld()

remDr %>% go("http://www.google.com/ncr")
# search for the "R project"
remDr %>% findElement("name", "q") %>% elementSendKeys("R project", key = "enter")

webElem <- remDr %>% findElement("css", "h3.r a")

remDr %>% deleteSession

## End(Not run)

---

takeElementScreenshot  takeElementScreenshot

description

takeElementScreenshot

usage
takeElementScreenshot(webElem, file = NULL, display = getOption("seleniumPipes_display_screenshot"), useViewer = !is.null(getOption("viewer")), returnPNG = FALSE, ...)

arguments
webElem  An object of class "wElement". A web Element object see wbElement.
file  If not null the decoded PNG is written to file using the string provided here. Defaults to NULL.
display  logical Display the PNG or not (default is set in getOption("seleniumPipes_display_screenshot"))
useViewer  A viewer to view the PNG. Looks for the RSudio viewer by default.
takeScreenshot

returnPNG logical return the decoded PNG. If false (default) webElem is returned to allow chaining.

Additional function arguments - Currently passes the retry argument.

Value

If returnPNG is FALSE the web Element object is returned and additional chaining is possible. If TRUE then the decoded base64 image is returned see base64_dec

See Also

Other screenCapture functions: takeScreenshot

Examples

## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")
remDr %>% takeScreenshot

# select the search box
searchElem <- remDr %>% findElement("name", "q")
#searchElem %>% takeElementScreenshot()

## End(Not run)

Description

takeScreenshot

Usage

takeScreenshot(remDr, file = NULL,
  display = getOption("seleniumPipes_display_screenshot"),
  useViewer = !is.null(getOption("viewer")), returnPNG = FALSE, ...)

Arguments

remDr An object of class "rDriver". A remote driver object see remoteDr.
file If not null the decoded PNG is written to file using the string provided here. Defaults to NULL.
display logical Display the PNG or not (default is set in getOption("seleniumPipes_display_screenshot").
useViewer A viewer to view the PNG. Looks for the RStudio viewer by default.
**wbElement**

Create a Web Element

---

**Description**

wbElement Create a Web Element object of class "wElement"

**Usage**

```
wbElement(elementId, remDr)
```

**Arguments**

- **elementId**: This is a string returned by the web driver that identifies the web element.
- **remDr**: An object of class "rDriver". A remote driver object see `remoteDr`.

**Value**

An object of class "wElement" is returned. This is a web element object that is used in many of the web Element specific functions. Many functions that take a web Element object as input also return the web Element object. This allows chaining of commands. See the examples for chaining in action.

---

**returnPNG**

Logical return the decoded PNG. If false (default) remDr is returned to allow chaining.

Additional function arguments - Currently passes the `retry` argument.

**Value**

If `returnPNG` is FALSE the remote Driver object is returned and additional chaining is possible. If TRUE then the decoded base64 image is returned see `base64_dec`.

**See Also**

Other screenCapture functions: `takeElementScreenshot`

**Examples**

```r
## Not run:
remDr <- remoteDr()
remDr %>% go("http://www.google.com/ncr")
remDr %>% takeScreenshot

# select the search box
searchElem <- remDr %>% findElement("name", "q")
#searchElem %>% takeElementScreenshot()

## End(Not run)
```

---
## Examples

```r
## Not run:
remDr <- remoteDr()
webElem <- remDR %>% go("http://www.google.com") %>%
  findElement("name", "q")
# print the webElement
webElem

# send keys to the web Element
webElem %>% elementSendKeys("R project", key = "enter")

# close browser
remDr %>% deleteSession()

## End(Not run)
```
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