

# Package: cookies (via r-universe)

November 6, 2024

**Title** Use Browser Cookies with 'shiny'

**Version** 0.2.3.9000

**Description** Browser cookies are name-value pairs that are saved in a user's browser by a website. Cookies allow websites to persist information about the user and their use of the website. Here we provide tools for working with cookies in 'shiny' apps, in part by wrapping the 'js-cookie' JavaScript library <<https://github.com/js-cookie/js-cookie>>.

**License** MIT + file LICENSE

**URL** <https://cookies.shinyworks.org/>,  
<https://github.com/shinyworks/cookies>

**BugReports** <https://github.com/shinyworks/cookies/issues>

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add\_cookie\_handlers    *Add cookies to an existing shiny ui*

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### Description

Wrap a shiny ui in this function in order to add cookie-handling functionality. The ui can be defined in any format compatible with shiny, using functions such as [shiny::fluidPage\(\)](#), [shiny::bootstrapPage\(\)](#), [shiny::htmlTemplate\(\)](#), or a raw HTML string.

### Usage

```
add_cookie_handlers(ui)
```

### Arguments

ui                    A 0- or 1-argument function defining the ui of a shiny app, or a [shiny::tagList\(\)](#).

### Value

An object with the same signature as the input ui, but with the dependencies needed to handle cookies. If ui is a [shiny::tagList\(\)](#), a [shiny::tagList\(\)](#) will be returned; if ui is a function, a function will be returned.

### Examples

```
str(add_cookie_handlers("example"))
```

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cookie_dependency	<i>Attach the js-cookie javascript library for shiny</i>
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### Description

Add the js-cookie Javascript library as an HTML dependency, and make cookies available in the shiny input object.

### Usage

```
cookie_dependency()
```

### Details

Call this function within your shiny ui to attach the necessary JavaScript code.

### Value

An `htmltools::htmlDependency()`, which shiny uses to add the js-cookie Javascript library exactly once.

### Examples

```
cookie_dependency()
```

---

extract_cookie	<i>Extract an individual cookie from a shiny request</i>
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### Description

The shiny request object includes any cookies that are available to the app. This function extracts the value of a named cookie from that request.

### Usage

```
extract_cookie(request, cookie_name, missing = NULL)
```

### Arguments

request	A shiny request object.
cookie_name	The name of the cookie. Can contain any US-ASCII characters except for: the control character, space, a tab, or separator characters like <code>() &lt; &gt; @ , ; : \ " / [ ] ? = { }</code> .
missing	The value to return if the requested cookie is not stored in the request. Defaults to NULL.

**Value**

The contents of that cookie.

**Examples**

```
req <- list(HTTP_COOKIE = "cookie1=expected_value; cookie2=1; cookie3=2")
extract_cookie(req, "cookie1")
extract_cookie(req, "cookie2")
extract_cookie(list(), "cookie1")
extract_cookie(NULL, "cookie1")
```

---

extract_cookies	<i>Extract all cookies from a shiny request</i>
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**Description**

The shiny request object includes any cookies that are available to the app. This function extracts those cookies as a named list.

**Usage**

```
extract_cookies(request)
```

**Arguments**

request      A shiny request object.

**Value**

All cookies in the request, as a list.

**Examples**

```
req <- list(HTTP_COOKIE = "cookie1=expected_value; cookie2=1; cookie3=2")
extract_cookies(req)
extract_cookies(list())
extract_cookies(NULL)
```

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get_cookie	<i>Read a cookie</i>
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**Description**

Read a cookie from the input object.

**Usage**

```
get_cookie(  
  cookie_name,  
  missing = NULL,  
  session = shiny::getDefaultReactiveDomain()  
)
```

**Arguments**

cookie_name	The name of the cookie. Can contain any US-ASCII characters except for: the control character, space, a tab, or separator characters like ( ) < > @ , ; : \ " / [ ] ? = { }.
missing	The value to return if the requested cookie does not exist. Defaults to NULL.
session	Shiny session in which the cookies can be found (the default should probably always be used).

**Value**

A character with the value of the cookie.

**Examples**

```
server <- function(input, output, session) {  
  get_cookie("my_cookie")  
}
```

---

remove_cookie	<i>Remove a cookie</i>
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**Description**

Instruct the user's browser to remove a cookie via JavaScript.

**Usage**

```
remove_cookie(cookie_name, session = shiny::getDefaultReactiveDomain())
```

**Arguments**

cookie_name	The name of the cookie. Can contain any US-ASCII characters except for: the control character, space, a tab, or separator characters like ( ) < > @ , ; : \ " / [ ] ? = { }.
session	Shiny session in which the cookies can be found (the default should probably always be used).

**Value**

A call to `session$sendCustomMessage()` which removes the targeted cookie.

**Examples**

```
server <- function(input, output, server) {
  shiny::observeEvent(
    input$button_that_removes_cookie,
    remove_cookie("my_cookie")
  )
}
```

---

 set\_cookie

*Create or update a cookie*


---

**Description**

Instruct the user's browser to create a cookie via JavaScript.

**Usage**

```
set_cookie(
  cookie_name,
  cookie_value,
  expiration = 90,
  secure_only = NULL,
  domain = NULL,
  path = NULL,
  same_site = NULL,
  session = shiny::getDefaultReactiveDomain()
)
```

**Arguments**

cookie_name	The name of the cookie. Can contain any US-ASCII characters except for: the control character, space, a tab, or separator characters like ( ) < > @ , ; : \ " / [ ] ? = { }.
cookie_value	The contents of the cookie as a single character value.

expiration	Days after which the cookie should expire. To remove an HttpOnly cookie, send a negative value for this attribute.
secure_only	Logical indicating whether the cookie should only be accessible via secure (https:) requests (except on localhost).
domain	The host to which the cookie will be sent (including subdomains). If this is NULL (default) the cookie will only be sent to the host of the page where this cookie was set (not including subdomains).
path	The path that must exist in the requested URL for the browser to send this cookie. Includes subdirectories.
same_site	One of "strict", "lax" (default), or "none", indicating when the cookie should be sent. When same_site = "none", secure_only must be TRUE.
session	Shiny session in which the cookies can be found (the default should probably always be used).

**Value**

A call to `session$sendCustomMessage()` which sets the targeted cookie.

**Examples**

```
server <- function(input, output, server) {
  shiny::observeEvent(
    input$button_that_sets_cookie,
    set_cookie(
      "my_cookie",
      "the value of this cookie"
    )
  )
}
```

---

set\_cookie\_on\_load      *Shiny tag to add cookies on page load*

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**Description**

Generate a `shiny::tagList()` which uses JavaScript to set a cookie in the user's browser when the shiny app loads.

**Usage**

```
set_cookie_on_load(
  cookie_name,
  cookie_value,
  expiration = 90,
  secure_only = NULL,
  domain = NULL,
  path = NULL,
  same_site = NULL
)
```

**Arguments**

cookie_name	The name of the cookie. Can contain any US-ASCII characters except for: the control character, space, a tab, or separator characters like ( ) < > @ , ; : \ " / [ ] ? = { }.
cookie_value	The contents of the cookie as a single character value.
expiration	Days after which the cookie should expire. To remove an HttpOnly cookie, send a negative value for this attribute.
secure_only	Logical indicating whether the cookie should only be accessible via secure (https:) requests (except on localhost).
domain	The host to which the cookie will be sent (including subdomains). If this is NULL (default) the cookie will only be sent to the host of the page where this cookie was set (not including subdomains).
path	The path that must exist in the requested URL for the browser to send this cookie. Includes subdirectories.
same_site	One of "strict", "lax" (default), or "none", indicating when the cookie should be sent. When same_site = "none", secure_only must be TRUE.

**Value**

A `shiny::tagList()` that provides the HTML and javascript to set the cookie.

**Examples**

```
set_cookie_on_load("my_cookie", "contents of my cookie")
set_cookie_on_load("my_cookie", "contents of my cookie", expiration = 10)
```

---

set\_cookie\_response    *Set cookie via HTTP header*

---

**Description**

Send a `shiny::httpResponse()` that sets a cookie in the user's browser. Note that this does *not* return a full shiny ui.

**Usage**

```
set_cookie_response(
  cookie_name,
  cookie_value,
  expiration = 90,
  secure_only = NULL,
  domain = NULL,
  path = NULL,
  same_site = NULL,
  http_only = FALSE,
```



```

    redirect = NULL,
    ...
)

```

### Arguments

cookie_name	The name of the cookie. Can contain any US-ASCII characters except for: the control character, space, a tab, or separator characters like ( ) < > @ , ; : \ " / [ ] ? = { }.
cookie_value	The contents of the cookie as a single character value.
expiration	Days after which the cookie should expire. To remove an HttpOnly cookie, send a negative value for this attribute.
secure_only	Logical indicating whether the cookie should only be accessible via secure (https:) requests (except on localhost).
domain	The host to which the cookie will be sent (including subdomains). If this is NULL (default) the cookie will only be sent to the host of the page where this cookie was set (not including subdomains).
path	The path that must exist in the requested URL for the browser to send this cookie. Includes subdirectories.
same_site	One of "strict", "lax" (default), or "none", indicating when the cookie should be sent. When same_site = "none", secure_only must be TRUE.
http_only	Logical indicating whether the cookie should only be sent as part of an HTTP request. When this is FALSE (default), the cookie is accessible to JavaScript via the Document.cookie property.
redirect	A relative or absolute URL where the user should be sent next. A typical case would be the same URL minus the query parameter that triggered the Set-cookie response.
...	Additional parameters passed on to <a href="#">shiny::httpResponse()</a> .

### Value

A [shiny::httpResponse\(\)](#) that sets the cookie.

### Examples

```

set_cookie_response("my_cookie", "contents of my cookie")
set_cookie_response("my_cookie", "contents of my cookie", expiration = 10)
set_cookie_response(
  "my_cookie", "contents of my cookie",
  content = "Your cookie is set."
)
set_cookie_response(
  "my_cookie", "contents of my cookie",
  redirect = "/"
)

```

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