

Package ‘webmockr’

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Title Stubbing and Setting Expectations on 'HTTP' Requests

Description Stubbing and setting expectations on 'HTTP' requests.

Includes tools for stubbing 'HTTP' requests, including expected request conditions and response conditions. Match on 'HTTP' method, query parameters, request body, headers and more. Can be used for unit tests or outside of a testing context.

Version 0.4.0

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URL <https://github.com/ropensci/webmockr> (devel)

<https://ropenscilabs.github.io/http-testing-book/> (user manual)

BugReports <https://github.com/ropensci/webmockr/issues>

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webmockr-package

Stubbing and setting expectations on HTTP requests

Description

Stubbing and setting expectations on HTTP requests

Features

- Stubbing HTTP requests at low http client lib level
- Setting and verifying expectations on HTTP requests
- Matching requests based on method, URI, headers and body
- Supports multiple HTTP libraries, including **crul** and **htr**
- Integration with HTTP test caching library **vc**

Author(s)

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Examples

```
library(webmockr)
stub_request("get", "https://httpbin.org/get")
stub_request("post", "https://httpbin.org/post")
stub_registry()
```

build_crul_request *Build a crul request*

Description

Build a crul request

Usage

```
build_crul_request(x)
```

Arguments

x an unexecuted crul request object

Value

a crul request

build_crul_response *Build a crul response*

Description

Build a crul response

Usage

```
build_crul_response(req, resp)
```

Arguments

req a request
resp a response

Value

a crul response

build_httr_request *Build a httr request*

Description

Build a httr request

Usage

```
build_httr_request(x)
```

Arguments

x an unexecuted httr request object

Value

a httr request

build_httr_response *Build a httr response*

Description

Build a httr response

Usage

```
build_httr_response(req, resp)
```

Arguments

req a request
resp a response

Value

a httr response

| | |
|-------------|-----------------------------|
| CrulAdapter | <i>crul library adapter</i> |
|-------------|-----------------------------|

Description

crul library adapter

Details**Methods**

enable() Enable the adapter

disable() Disable the adapter

build_crul_request(x) Build a crul [RequestSignature](#) x: crul request parts (list)

build_crul_response(req, resp) Build a crul response req: a crul request (list) resp: a crul response ()

handle_request() All logic for handling a request req: a crul request (list)

remove_crul_stubs() Remove all crul stubs

This adapter modifies **crul** to allow mocking HTTP requests

See Also

Other http_lib_adapters: [HttrAdapter](#)

| | |
|--------|-----------------------------------|
| enable | <i>Enable or disable webmockr</i> |
|--------|-----------------------------------|

Description

Enable or disable webmockr

Usage

```
enable(adapter = NULL, options = list())
```

```
enabled(adapter = "crul")
```

```
disable(adapter = NULL, options = list())
```

Arguments

adapter (character) the adapter name, 'crul' or 'httr'. one or the other. if none given, we attempt to enable both adapters

options list of options - ignored for now.

Details

enable() enables **webmockr** for all adapters. disable() disables **webmockr** for all adapters. enabled() answers whether **webmockr** is enabled for a given adapter

Value

enable() and disable() invisibly returns booleans for each adapter, as a result of running enable or disable, respectively, on each [HttpLibAdapaterRegistry](#) object. enabled returns a single boolean

 HashCounter

hash with counter, to store requests, and count each time it is used

Description

hash with counter, to store requests, and count each time it is used

Details**Methods**

put(key) Register a request by it's key - key: a character string of the request, serialized from [CrulAdapter](#) or other adapter

get(key) Get a request by key - key: a character string of the request, serialized from [CrulAdapter](#) or other adapter

See Also

Other request-registry: [RequestRegistry](#), [request_registry](#)

Examples

```
x <- HashCounter$new()
x$put("foo bar")
x$put("foo bar")
x$put("hello world")
x$put("hello world")
x$put("hello world")
x$hash
```

HttpLibAdapaterRegistry
http lib adapter registry

Description

http lib adapter registry

Details**Methods**

register(x) Register an http library adapter x: an http lib adapter, e.g., [CrulAdapter](#) return: nothing, registers the library adapter

Examples

```
x <- HttpLibAdapaterRegistry$new()
x$register(CrulAdapter$new())
x
x$adapters
x$adapters[[1]]$name
```

HttrAdapter *httr library adapter*

Description

httr library adapter

Details**Methods**

enable() Enable the adapter

disable() Disable the adapter

build_httr_request(x) Build a httr [RequestSignature](#) x: httr request parts (list)

build_httr_response(req, resp) Build a httr response req: a httr request (list) resp: a httr response ()

handle_request() All logic for handling a request req: a httr request (list)

remove_httr_stubs() Remove all httr stubs

This adapter modifies **httr** to allow mocking HTTP requests

See Also

Other `http_lib_adapters`: [CrulAdapter](#)

Examples

```
## Not run:
if (requireNamespace("httr", quietly = TRUE)) {
  library(httr)

  # normal httr request, works fine
  real <- GET("https://httpbin.org/get")
  real

  # with webmockr
  library(webmockr)
  ## turn on httr mocking
  httr_mock()
  ## now this request isn't allowed
  # GET("https://httpbin.org/get")
  ## stub the request
  stub_request('get', uri = 'https://httpbin.org/get') %>%
    with(
      headers = list('Accept' = 'application/json, text/xml, application/xml, */*')
    ) %>%
    to_return(status = 418, body = "I'm a teapot!", headers = list(a = 5))
  ## now the request succeeds and returns a mocked response
  (res <- GET("https://httpbin.org/get"))
  res$status_code
  rawToChar(res$content)

  # allow real requests while webmockr is loaded
  webmockr_allow_net_connect()
  webmockr_net_connect_allowed()
  GET("https://httpbin.org/get?animal=chicken")
  webmockr_disable_net_connect()
  webmockr_net_connect_allowed()
  # GET("https://httpbin.org/get?animal=chicken")
}

## End(Not run)
```

httr_mock

Turn on httr mocking

Description

Turn on httr mocking

Usage

```
httr_mock(on = TRUE)
```

Arguments

`on` (logical) set to TRUE to turn on, and FALSE to turn off. default: TRUE

Value

silently sets a callback that routes httr request through webmockr

`remove_request_stub` *Remove a request stub*

Description

Remove a request stub

Usage

```
remove_request_stub(stub)
```

Arguments

`stub` a request stub, of class `StubbedRequest`

Value

logical, TRUE if removed, FALSE if not removed

See Also

Other stub-registry: [StubRegistry](#), [stub_registry_clear](#), [stub_registry](#)

Examples

```
(x <- stub_request("get", "https://httpbin.org/get"))
stub_registry()
remove_request_stub(x)
stub_registry()
```

RequestPattern *RequestPattern class*

Description

RequestPattern class

Arguments

| | |
|-----------|---|
| method | the HTTP method (any, head, options, get, post, put, patch, trace, or delete). "any" matches any HTTP method. required. |
| uri | (character) request URI. required or uri_regex |
| uri_regex | (character) request URI as regex. required or uri |
| query | (list) query parameters, optional |
| body | (list) body request, optional |
| headers | (list) headers, optional |

Details

Methods

matches(request_signature) Test if request_signature matches a pattern - request_signature: a request signature

to_s() Print pattern for easy human consumption

See Also

pattern classes for HTTP method [MethodPattern](#), headers [HeadersPattern](#), body [BodyPattern](#), and URI/URL [UriPattern](#)

Examples

```
## Not run:
(x <- RequestPattern$new(method = "get", uri = "https://httpbin.org/get"))
x$body_pattern
x$headers_pattern
x$method_pattern
x$uri_pattern
x$to_s()

# make a request signature
rs <- RequestSignature$new(method = "get", uri = "https://httpbin.org/get")

# check if it matches
x$matches(rs)

# regex uri
```

```

(x <- RequestPattern$new(method = "get", uri_regex = ".+ossref.org"))
x$uri_pattern
x$uri_pattern$to_s()
x$to_s()

# uri with query parameters
(x <- RequestPattern$new(
  method = "get", uri = "https://httpbin.org/get",
  query = list(foo = "bar")
))
x$to_s()

# just headers (via setting method=any & uri_regex=.)
headers <- list(
  'User-Agent' = 'Apple',
  'Accept-Encoding' = 'gzip, deflate',
  'Accept' = 'application/json, text/xml, application/xml, */*')
x <- RequestPattern$new(
  method = "any",
  uri_regex = ".+",
  headers = headers)
x$to_s()
rs <- RequestSignature$new(method = "any", uri = "http://foo.bar",
  options = list(headers = headers))
rs
x$matches(rs)

## End(Not run)

```

RequestRegistry

Request registry

Description

Request registry

Details

Methods

`register_request(request)` Register a request - request: a character string of the request, serialized from [CrulAdapter](#) or other adapter

`reset()` Reset the registry to no registered requests

See Also

Other request-registry: [HashCounter](#), [request_registry](#)

Examples

```
x <- RequestRegistry$new()
x$register_request(request = "GET http://scottchamberlain.info")
x$register_request(request = "GET http://scottchamberlain.info")
x$register_request(request = "POST https://httpbin.org/post")
# print method to list requests
x

# hashes, and number of times each requested
x$request_signatures$hash

# reset the request registry
x$reset()
```

RequestSignature

*General purpose request signature builder***Description**

General purpose request signature builder

Arguments

| | |
|---------|---|
| method | the HTTP method (any, head, options, get, post, put, patch, trace, or delete). "any" matches any HTTP method. required. |
| uri | (character) request URI. required. |
| options | (list) options. optional. See Details. |

Details**Methods**

to_s() Request signature to a string return: a character string representation of the request signature

options

- body - body as a named list
- headers - headers as a named list
- proxies - proxies as a named list
- auth - authentication details, as a named list

Examples

```
# make request signature
x <- RequestSignature$new(method = "get", uri = "https://httpbin.org/get")
# method
x$method
# uri
x$uri
# request signature to string
x$to_s()

# headers
w <- RequestSignature$new(
  method = "get",
  uri = "https://httpbin.org/get",
  options = list(headers = list(`User-Agent` = "foobar", stuff = "things"))
)
w
w$headers
w$to_s()

# headers and body
bb <- RequestSignature$new(
  method = "get",
  uri = "https://httpbin.org/get",
  options = list(
    headers = list(`User-Agent` = "foobar", stuff = "things"),
    body = list(a = "tables")
  )
)
bb
bb$headers
bb$body
bb$to_s()
```

request_registry

List requests in the request registry

Description

List requests in the request registry

Usage

```
request_registry()
```

Value

an object of class `RequestRegistry`, print method gives the requests in the registry and the number of times each one has been performed

See Also

Other request-registry: [HashCounter](#), [RequestRegistry](#)

Examples

```
webmockr::enable()
stub_request("get", "https://httpbin.org/get") %>%
  to_return(body = "success!", status = 200)

# nothing in the request registry
request_registry()

# make the request
z <- crul::HttpClient$new(url = "https://httpbin.org")$get("get")

# check the request registry - the request was made 1 time
request_registry()

# do the request again
z <- crul::HttpClient$new(url = "https://httpbin.org")$get("get")

# check the request registry - now it's been made 2 times, yay!
request_registry()
```

Response

Response class

Description

Response class

Arguments

options (list) a list of options

Details**Methods**

set_request_headers(headers) set request headers - headers: a list of key-value pair headers
 get_request_headers() get request headers
 set_response_headers(headers) set response headers - headers: a list of key-value pair headers
 get_response_headers() get response headers
 set_body(body) - body: must be a string
 get_body() get body
 set_status() - body: must be an integer status code
 get_status() get status code
 set_exception() set exception
 get_exception() get exception

Examples

```
## Not run:
(x <- Response$new())

x$set_url("https://httpbin.org/get")
x

x$set_request_headers(list('Content-Type' = "application/json"))
x
x$request_headers

x$set_response_headers(list('Host' = "httpbin.org"))
x
x$response_headers

x$set_status(404)
x
x$get_status()

x$set_body("hello world")
x
x$get_body()

x$set_exception("exception")
x
x$get_exception()

## End(Not run)
```

StubbedRequest

StubbedRequest class

Description

StubbedRequest class

Arguments

| | |
|-----------|---|
| method | the HTTP method (any, head, get, post, put, patch, or delete). "any" matches any HTTP method. required. |
| uri | (character) request URI. either this or uri_regex required |
| uri_regex | (character) request URI as regex. either this or uri required |

Details**Methods**

with(query, body, headers) Set expectations for what's given in HTTP request

- query (list) request query params, as a named list. optional
- body (list) request body, as a named list. optional
- headers (list) request headers as a named list. optional.

to_return(status, body, headers) Set expectations for what's returned in HTTP response

- status (numeric) an HTTP status code
- body (list) response body, as a list. optional
- headers (list) named list, response headers. optional.

to_s() Response as a string

See Also

[stub_request\(\)](#)

Examples

```
## Not run:
x <- StubbedRequest$new(method = "get", uri = "api.crossref.org")
x$method
x$uri
x$with(headers = list('User-Agent' = 'R', apple = "good"))
x$to_return(status = 200, body = "foobar", headers = list(a = 5))
x
x$to_s()

# uri_regex
(x <- StubbedRequest$new(method = "get", uri_regex = ".+ossref.org"))
x$method
x$uri
x$to_s()

(x <- StubbedRequest$new(method = "get", uri_regex = ".+ossref.org"))
x$to_s()
x$timeout <- TRUE
x$to_s()

## End(Not run)
```

StubRegistry

Stub registry

Description

Stub registry

Details**Methods**

register_stub(stub) Register a stub - stub: an object of class [StubbedRequest](#)

find_stubbed_request(req) Find a stubbed request - req: an object of class [RequestSignature](#)

response_for_request(request_signature) Find a stubbed request - request_signature: an object of class [RequestSignature](#)

request_stub_for(request_signature) Find a stubbed request - request_signature: an object of class [RequestSignature](#)

remove_request_stub(stub) Remove a stubbed request by matching request signature - stub: an object of class [StubbedRequest](#)

remove_all_request_stubs() Remove all request stubs

is_registered(x) Find a stubbed request - x: an object of class [RequestSignature](#)

See Also

Other stub-registry: [remove_request_stub](#), [stub_registry_clear](#), [stub_registry](#)

Examples

```
## Not run:
# Make a stub
stub1 <- StubbedRequest$new(method = "get", uri = "api.crossref.org")
stub1$with(headers = list('User-Agent' = 'R'))
stub1$to_return(status = 200, body = "foobar", headers = list())
stub1

# Make another stub
stub2 <- StubbedRequest$new(method = "get", uri = "api.crossref.org")
stub2

# Put both stubs in the stub registry
reg <- StubRegistry$new()
reg$register_stub(stub = stub1)
reg$register_stub(stub = stub2)
reg
reg$request_stubs

## End(Not run)
```

stub_registry

List stubs in the stub registry

Description

List stubs in the stub registry

Usage

```
stub_registry()
```

Value

an object of class StubRegistry, print method gives the stubs in the registry

See Also

Other stub-registry: [StubRegistry](#), [remove_request_stub](#), [stub_registry_clear](#)

Examples

```
# make a stub
stub_request("get", "https://httpbin.org/get") %>%
  to_return(body = "success!", status = 200)

# check the stub registry, there should be one in there
stub_registry()

# make another stub
stub_request("get", "https://httpbin.org/get") %>%
  to_return(body = "woopsy", status = 404)

# check the stub registry, now there are two there
stub_registry()

# to clear the stub registry
stub_registry_clear()
```

stub_registry_clear *Clear the stub registry*

Description

Clear all stubs

Usage

```
stub_registry_clear()
```

Value

nothing, well technically an empty list invisibly, but it's not anything useful

See Also

Other stub-registry: [StubRegistry](#), [remove_request_stub](#), [stub_registry](#)

Examples

```
(x <- stub_request("get", "https://httpbin.org/get"))
stub_registry()
stub_registry_clear()
stub_registry()
```

| | |
|--------------|-----------------------------|
| stub_request | <i>Stub an http request</i> |
|--------------|-----------------------------|

Description

Stub an http request

Usage

```
stub_request(method = "get", uri = NULL, uri_regex = NULL)
```

Arguments

| | |
|-----------|--|
| method | (character) HTTP method, one of "get", "post", "put", "patch", "head", "delete", "options" - or the special "any" (for any method) |
| uri | (character) The request uri. Can be a full uri, partial, or a regular expression to match many incantations of a uri. required. |
| uri_regex | (character) A URI represented as regex. See examples |

Details

Internally, this calls [StubbedRequest](#) which handles the logic

See [stub_registry\(\)](#) for listing stubs, [stub_registry_clear\(\)](#) for removing all stubs and [remove_request_stub\(\)](#) for removing specific stubs

If multiple stubs match the same request, we use the first stub. So if you want to use a stub that was created after an earlier one that matches, remove the earlier one(s).

Value

an object of class `StubbedRequest`, with print method describing the stub.

See Also

[wi_th\(\)](#), [to_return\(\)](#), [to_timeout\(\)](#), [to_raise\(\)](#)

Examples

```

## Not run:
# basic stubbing
stub_request("get", "https://httpbin.org/get")
stub_request("post", "https://httpbin.org/post")

# any method, use "any"
stub_request("any", "https://httpbin.org/get")

# list stubs
stub_registry()

# request headers
stub_request("get", "https://httpbin.org/get") %>%
  wi_th(headers = list('User-Agent' = 'R'))

# request body
stub_request("post", "https://httpbin.org/post") %>%
  wi_th(body = list(foo = 'bar'))
stub_registry()
library(crul)
x <- crul::HttpClient$new(url = "https://httpbin.org")
crul::mock()
x$post('post', body = list(foo = 'bar'))

# add expectation with to_return
stub_request("get", "https://httpbin.org/get") %>%
  wi_th(
    query = list(hello = "world"),
    headers = list('User-Agent' = 'R')) %>%
  to_return(status = 200, body = "stuff", headers = list(a = 5))

# list stubs again
stub_registry()

# regex
stub_request("get", uri_regex = ".+ample\\.\\.")

# set stub an expectation to timeout
stub_request("get", "https://httpbin.org/get") %>% to_timeout()
x <- crul::HttpClient$new(url = "https://httpbin.org")
res <- x$get('get')

# raise exception
library(fauxpas)
stub_request("get", "https://httpbin.org/get") %>% to_raise(HTTPAccepted)
stub_request("get", "https://httpbin.org/get") %>% to_raise(HTTPAccepted, HTTPGone)

x <- crul::HttpClient$new(url = "https://httpbin.org")
stub_request("get", "https://httpbin.org/get") %>% to_raise(HTTPBadGateway)
crul::mock()
x$get('get')

```

```

# pass options to .list to avoid NSE
z <- stub_request("get", "https://httpbin.org/get")
wi_th(z, .list = list(query = list(foo = "bar")))

# just body
stub_request("any", uri_regex = ".+") %>%
  wi_th(body = list(foo = 'bar'))
library(crul)
x <- crul::HttpClient$new(url = "https://httpbin.org")
crul::mock()
x$post('post', body = list(foo = 'bar'))
x$put('put', body = list(foo = 'bar'))

# just headers
headers <- list(
  'Accept-Encoding' = 'gzip, deflate',
  'Accept' = 'application/json, text/xml, application/xml, */*')
stub_request("any", uri_regex = ".+") %>% wi_th(headers = headers)
library(crul)
x <- crul::HttpClient$new(url = "https://httpbin.org", headers = headers)
crul::mock()
x$post('post')
x$put('put', body = list(foo = 'bar'))
x$get('put', query = list(stuff = 3423234L))

# clear all stubs
stub_registry()
stub_registry_clear()

## End(Not run)

```

to_raise

Set raise error condition

Description

Set raise error condition

Usage

```
to_raise(.data, ...)
```

Arguments

.data input. Anything that can be coerced to a StubbedRequest class object

... One or more HTTP exceptions from the **fauxpas** package. Run `grep("HTTP*", getNamespaceExports("fauxpas") = TRUE)` for a list of possible exceptions

Details

The behavior in the future will be:

When multiple exceptions are passed, the first is used on the first mock, the second on the second mock, and so on. Subsequent mocks use the last exception

But for now, only the first exception is used until we get that fixed

Value

an object of class `StubbedRequest`, with `print` method describing the stub

Note

see examples in [stub_request\(\)](#)

to_return

Expectation for what's returned from a stubbed request

Description

Set response status code, response body, and/or response headers

Usage

```
to_return(.data, ..., .list = list())
```

Arguments

| | |
|--------------------|--|
| <code>.data</code> | input. Anything that can be coerced to a <code>StubbedRequest</code> class object |
| <code>...</code> | Comma separated list of named variables. accepts the following: <code>status</code> , <code>body</code> , <code>headers</code> . See Details for more. |
| <code>.list</code> | named list, has to be one of <code>'status'</code> , <code>'body'</code> , and/or <code>'headers'</code> . An alternative to passing in via <code>...</code> . Don't pass the same thing to both, e.g. don't pass <code>'status'</code> to <code>...</code> , and also <code>'status'</code> to this parameter |

Details

Values for `status`, `body`, and `headers`:

- `status`: (numeric/integer) three digit status code
- `body`: various, including character string, list, raw, numeric, etc
- `headers`: (list) a named list

response headers are returned with all lowercase names and the values are all of type character. if numeric/integer values are given (e.g., `to_return(headers = list(a = 10))`), we'll coerce any numeric/integer values to character.

Value

an object of class `StubbedRequest`, with `print` method describing the stub

Note

see more examples in [stub_request\(\)](#)

Examples

```
# first, make a stub object
(req <- stub_request("post", "https://httpbin.org/post"))

# add status, body and/or headers
to_return(req, status = 200)
to_return(req, body = "stuff")
to_return(req, body = list(a = list(b = "world")))
to_return(req, headers = list(a = 5))
to_return(req, status = 200, body = "stuff", headers = list(a = 5))

# .list - pass in a named list instead
to_return(req, .list = list(body = list(foo = "bar")))
```

to_timeout

Set timeout as an expected return on a match

Description

Set timeout as an expected return on a match

Usage

```
to_timeout(.data)
```

Arguments

`.data` input. Anything that can be coerced to a `StubbedRequest` class object

Value

an object of class `StubbedRequest`, with `print` method describing the stub

Note

see examples in [stub_request\(\)](#)

webmockr-defunct *Defunct functions in webmockr*

Description

- `webmockr_enable()`: Function removed, see `enable()`
- `webmockr_disable()`: Function removed, see `disable()`
- `to_return_`: Only `to_return()` is available now
- `wi_th_`: Only `wi_th()` is available now

webmockr_configure *webmockr configuration*

Description

webmockr configuration

Usage

```
webmockr_configure(allow_net_connect = FALSE, allow_localhost = FALSE,
  allow = NULL, net_http_connect_on_start = FALSE,
  show_stubbing_instructions = FALSE, query_values_notation = FALSE,
  show_body_diff = FALSE)
```

```
webmockr_configure_reset()
```

```
webmockr_configuration()
```

```
webmockr_allow_net_connect()
```

```
webmockr_disable_net_connect(allow = NULL)
```

```
webmockr_net_connect_allowed(uri = NULL)
```

Arguments

`allow_net_connect`
(logical) Default: FALSE

`allow_localhost`
(logical) Default: FALSE

`allow`
(character) one or more URI/URL to allow (and by extension all others are not allowed)

`net_http_connect_on_start`
(logical) Default: FALSE. ignored for now


```

show_stubbing_instructions
    (logical) Default: FALSE. ignored for now
query_values_notation
    (logical) Default: FALSE. ignored for now
show_body_diff (logical) Default: FALSE. ignored for now
uri            (character) a URI/URL as a character string - to determine whether or not it is
                allowed

```

Examples

```

## Not run:
webmockr_configure()
webmockr_configure(
  allow_localhost = TRUE
)
webmockr_configuration()
webmockr_configure_reset()

webmockr_allow_net_connect()
webmockr_net_connect_allowed()

# disable net connect for any URIs
webmockr_disable_net_connect()
### gives NULL with no URI passed
webmockr_net_connect_allowed()
# disable net connect EXCEPT FOR given URIs
webmockr_disable_net_connect(allow = "google.com")
### is a specific URI allowed?
webmockr_net_connect_allowed("google.com")

## End(Not run)

```

| | |
|-------|--|
| wi_th | <i>Set additional parts of a stubbed request</i> |
|-------|--|

Description

Set query params, request body, and/or request headers

Usage

```
wi_th(.data, ..., .list = list())
```

Arguments

| | |
|-------|---|
| .data | input. Anything that can be coerced to a StubbedRequest class object |
| ... | Comma separated list of named variables. accepts the following: query, body, headers. |

`.list` named list, has to be one of 'query', 'body', and/or 'headers'. An alternative to passing in via `...`. Don't pass the same thing to both, e.g. don't pass 'query' to `...`, and also 'query' to this parameter

Details

`with` is a function in the base package, so we went with `wi_th`

Values for query, body, and headers:

- query: (list) a named list
- body: various, including character string, list, raw, numeric, etc
- headers: (list) a named list

Value

an object of class `StubbedRequest`, with `print` method describing the stub

Note

see more examples in [stub_request\(\)](#)

Examples

```
# first, make a stub object
req <- stub_request("post", "https://httpbin.org/post")

# add body
# list
wi_th(req, body = list(foo = "bar"))
# string
wi_th(req, body = '{"foo": "bar"}')
# raw
wi_th(req, body = charToRaw('{"foo": "bar"}'))
# numeric
wi_th(req, body = 5)

# add query - has to be a named list
wi_th(req, query = list(foo = "bar"))

# add headers - has to be a named list
wi_th(req, headers = list(foo = "bar"))
wi_th(req, headers = list(`User-Agent` = "webmockr/v1", hello="world"))

# .list - pass in a named list instead
wi_th(req, .list = list(body = list(foo = "bar")))
```

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