

Package: htmxr (via r-universe)

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Title Build Modern Web Applications with 'htmx' and 'plumber2'

Version 0.3.0

Description A lightweight framework for building server-driven web applications in 'R'. 'htmxr' combines the simplicity of 'htmx' for partial page updates with the power of 'plumber2' for non-blocking HTTP endpoints. Build interactive dashboards and data applications without writing 'JavaScript', using familiar 'R' patterns inspired by 'Shiny'. For more information on 'htmx', see <<https://htmx.org>>.

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<https://github.com/hyperverse-r/htmxr>

BugReports <https://github.com/hyperverse-r/htmxr/issues>

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hx_button	<i>Button element</i>
-----------	-----------------------

Description

Creates a <button> element with optional htmx attributes.

Usage

```

hx_button(
  id,
  label = NULL,
  class = NULL,
  get = NULL,
  post = NULL,
  put = NULL,
  patch = NULL,
  delete = NULL,
  target = NULL,
  swap = NULL,
  trigger = NULL,
  indicator = NULL,
  swap_oob = NULL,
  confirm = NULL,
  params = NULL,
  include = NULL,
  push_url = NULL,
  select = NULL,
  vals = NULL,
  encoding = NULL,
  headers = NULL,

```

```
    ...
  )
```

Arguments

id	Element id.
label	Button label (text or HTML content). Pass NULL for icon-only buttons — in that case supply an aria-label via ...
class	Optional CSS class(es).
get	URL for hx-get.
post	URL for hx-post.
put	URL for hx-put.
patch	URL for hx-patch.
delete	URL for hx-delete. Note: parameters are sent in the URL query string (not the request body) — read them via the injected query argument (e.g. <code>function(query) query\$id</code>) or via <code>request\$query</code> if you are using the full request object in your route.
target	CSS selector for hx-target.
swap	Swap strategy for hx-swap.
trigger	Trigger specification for hx-trigger.
indicator	CSS selector for hx-indicator.
swap_oob	Out-of-band swap targets for hx-swap-oob.
confirm	Confirmation message for hx-confirm.
params	Parameters to submit for hx-params. Use "*" to include all parameters (equivalent to omitting this argument), "none" to send none, or a comma-separated list of names (e.g. "id, name"). Prefix with not to exclude specific parameters (e.g. "not id, name").
include	CSS selector for hx-include. Additional elements whose values are included in the request. htmx relative selectors are valid: "closest form", "find input", "next .sibling". Note: params = "none" does not suppress values sourced via include.
push_url	Push a URL into the browser history for hx-push-url. Use "true" to push the request URL, "false" to disable, or a custom URL.
select	CSS selector for hx-select. Extracts a specific element from the server response before swapping (e.g. "#data-table").
vals	JSON string of extra values to include in the request for hx-vals (e.g. '{"id": 42}'). Values are passed as-is. Avoid js: expressions with HTML-special characters — htmtools will escape them.
encoding	Encoding type for hx-encoding. Use "multipart/form-data" to enable file uploads.
headers	JSON string of request headers for hx-headers (e.g. '{"X-Custom-Header": "value"}'). Values are passed as-is. Do not embed sensitive tokens in HTML attributes.
...	Additional HTML attributes passed to the <button> element.

Value

An `htmltools::tags` object.

Examples

```
# Simple button
hx_button("btn1", "Click me")

# Button with htmx GET request
hx_button("load-btn", "Load data", get = "/api/data", target = "#result")

# Button with confirmation
hx_button("del-btn", "Delete", post = "/api/delete", confirm = "Are you sure?")
```

hx_head

Specify additional head elements for an htmxr page

Description

Wraps tags to be included in the page head when passed to `hx_page()`.

Usage

```
hx_head(..., title = "htmxr page")
```

Arguments

<code>...</code>	tags to include in the head (stylesheets, scripts, meta, etc.)
<code>title</code>	page title

Value

A list with class `hx_head`, to be passed to `hx_page()`.

Examples

```
hx_head(title = "My app")

hx_head(
  title = "My app",
  tags$link(rel = "stylesheet", href = "/style.css")
)
```

`hx_is_htmx`*Detect if a request comes from htmx*

Description

Checks whether the incoming HTTP request was made by htmx by inspecting the HX-Request header. htmx sends this header with every AJAX request.

Usage

```
hx_is_htmx(request)
```

Arguments

<code>request</code>	A request object (e.g. from a plumber2 handler). Must have a headers element — a named list or character vector of HTTP headers (lowercase keys, as provided by plumber2).
----------------------	--

Value

TRUE if the request was made by htmx, FALSE otherwise.

Examples

```
# Simulated htmx request
req <- list(headers = list(`hx-request` = "true"))
hx_is_htmx(req)

# Regular request
req <- list(headers = list())
hx_is_htmx(req)
```

`hx_page`*Generate a complete HTML page with htmx*

Description

Generate a complete HTML page with htmx

Usage

```
hx_page(..., lang = "en", html_attrs = list())
```

Arguments

...	page content. Use <code>hx_head()</code> to add elements to the head.
lang	language code for the <code><html></code> element (default "en").
html_attrs	a named list of additional attributes to set on the <code><html></code> element (e.g. <code>list("data-theme" = "cupcake")</code> for DaisyUI).

Value

A length-one character string containing the full HTML document (including `<!DOCTYPE html>`), ready to be served as an HTTP response.

Examples

```
hx_page(tags$h1("Hello, htmxr!"))

hx_page(
  hx_head(title = "My app"),
  tags$p("Hello, world!")
)
```

hx_run_example	<i>Run an htmxr example</i>
----------------	-----------------------------

Description

Launches an example API that demonstrates htmxr features. Call `hx_run_example()` without arguments to list available examples.

Usage

```
hx_run_example(example = NULL, port = 8080)
```

Arguments

example	name of the example to run. If NULL, lists available examples.
port	port to run the API on.

Value

Called for side effects. When `example` is NULL, returns the available example names invisibly. Otherwise does not return (the server blocks).

Examples

```
hx_run_example() # list available examples
if (interactive()) {
  hx_run_example("hello") # run the hello example
}
```

hx_select_input	<i>Select input</i>
-----------------	---------------------

Description

Creates a <select> element with optional htmx attributes. When label is provided, the input is wrapped in a <div> containing a <label> element linked via the for attribute.

Usage

```
hx_select_input(
  id,
  label = NULL,
  choices,
  selected = NULL,
  multiple = FALSE,
  name = id,
  class = NULL,
  get = NULL,
  post = NULL,
  put = NULL,
  patch = NULL,
  delete = NULL,
  target = NULL,
  swap = NULL,
  trigger = NULL,
  indicator = NULL,
  swap_oob = NULL,
  confirm = NULL,
  params = NULL,
  include = NULL,
  push_url = NULL,
  select = NULL,
  vals = NULL,
  encoding = NULL,
  headers = NULL,
  ...
)
```

Arguments

id	Element id. Also used as name by default.
label	Optional label text. When provided, the input is wrapped in a <div> with a <label>.
choices	Named or unnamed character vector of choices. If unnamed, values are used as labels. If named, names are used as labels and values as option values (same convention as Shiny).
selected	Optional value(s) to pre-select.
multiple	Logical. If TRUE, adds the multiple attribute to allow multi-selection.
name	Form field name. Defaults to id.
class	Optional CSS class(es) for the <select> element.
get	URL for hx-get.
post	URL for hx-post.
put	URL for hx-put.
patch	URL for hx-patch.
delete	URL for hx-delete. Note: parameters are sent in the URL query string (not the request body) — read them via the injected query argument (e.g. function(query) query\$id) or via request\$query if you are using the full request object in your route.
target	CSS selector for hx-target.
swap	Swap strategy for hx-swap.
trigger	Trigger specification for hx-trigger.
indicator	CSS selector for hx-indicator.
swap_oob	Out-of-band swap targets for hx-swap-oob.
confirm	Confirmation message for hx-confirm.
params	Parameters to submit for hx-params. Use "*" to include all parameters (equivalent to omitting this argument), "none" to send none, or a comma-separated list of names (e.g. "id, name"). Prefix with not to exclude specific parameters (e.g. "not id, name").
include	CSS selector for hx-include. Additional elements whose values are included in the request. htmx relative selectors are valid: "closest form", "find input", "next .sibling". Note: params = "none" does not suppress values sourced via include.
push_url	Push a URL into the browser history for hx-push-url. Use "true" to push the request URL, "false" to disable, or a custom URL.
select	CSS selector for hx-select. Extracts a specific element from the server response before swapping (e.g. "#data-table").
vals	JSON string of extra values to include in the request for hx-vals (e.g. '{"id": 42}'). Values are passed as-is. Avoid js: expressions with HTML-special characters — htmltools will escape them.

encoding	Encoding type for hx-encoding. Use "multipart/form-data" to enable file uploads.
headers	JSON string of request headers for hx-headers (e.g. '{"X-Custom-Header": "value"}'). Values are passed as-is. Do not embed sensitive tokens in HTML attributes.
...	Additional HTML attributes passed to the <select> element.

Value

An `htmltools::tags` object.

Examples

```
# Simple select without label
hx_select_input("cut", choices = c("Fair", "Good", "Ideal"))

# Select with label and named choices
hx_select_input(
  "cut",
  label = "Filter by cut:",
  choices = c("All" = "all", "Fair", "Good", "Ideal"),
  selected = "all"
)

# Select with htmx attributes
hx_select_input(
  "cut",
  label = "Filter by cut:",
  choices = c("All" = "all", "Fair", "Good"),
  get = "/rows",
  trigger = "change",
  target = "#tbody"
)
```

hx_serve_assets	<i>Serve htmxr static assets</i>
-----------------	----------------------------------

Description

Configures a plumber2 API to serve htmxr's static assets (htmx JavaScript library) at `/htmxr/assets/`.

Usage

```
hx_serve_assets(api)
```

Arguments

`api` a plumber2 API object

Value

the API object (modified, for piping)

Examples

```
plumber2::api() |>
  hx_serve_assets()
```

hx_set

Add htmx attributes to any HTML tag

Description

A generic modifier that appends htmx attributes to an existing [htmltools::tags](#) object. Works with any HTML element.

Usage

```
hx_set(
  tag,
  get = NULL,
  post = NULL,
  put = NULL,
  patch = NULL,
  delete = NULL,
  target = NULL,
  swap = NULL,
  trigger = NULL,
  indicator = NULL,
  swap_oob = NULL,
  confirm = NULL,
  params = NULL,
  include = NULL,
  push_url = NULL,
  select = NULL,
  vals = NULL,
  encoding = NULL,
  headers = NULL,
  ...
)
```

Arguments

tag	An htmltools::tags object to modify.
get	URL for hx-get.
post	URL for hx-post.

put	URL for hx-put.
patch	URL for hx-patch.
delete	URL for hx-delete. Note: parameters are sent in the URL query string (not the request body) — read them via the injected query argument (e.g. <code>function(query) query\$id</code>) or via <code>request\$query</code> if you are using the full request object in your route.
target	CSS selector for hx-target.
swap	Swap strategy for hx-swap.
trigger	Trigger specification for hx-trigger.
indicator	CSS selector for hx-indicator.
swap_oob	Out-of-band swap targets for hx-swap-oob.
confirm	Confirmation message for hx-confirm.
params	Parameters to submit for hx-params. Use "*" to include all parameters (equivalent to omitting this argument), "none" to send none, or a comma-separated list of names (e.g. "id, name"). Prefix with not to exclude specific parameters (e.g. "not id, name").
include	CSS selector for hx-include. Additional elements whose values are included in the request. htmx relative selectors are valid: "closest form", "find input", "next .sibling", "previous .sibling". Note: <code>params = "none"</code> does not suppress values sourced via include — the two operate independently.
push_url	Push a URL into the browser history for hx-push-url. Use "true" to push the request URL, "false" to disable (e.g. to override inheritance), or a custom URL string.
select	CSS selector for hx-select. Extracts a specific element from the server response before swapping — useful when the server returns a full HTML page but only a fragment is needed (e.g. "#data-table").
vals	JSON string of extra values to include in the request for hx-vals (e.g. '{"id": 42}'). Values are passed as-is — no serialisation is performed. The <code>js:</code> prefix for dynamic expressions is supported by htmx but expressions containing HTML-special characters (<, >, &, ") will be escaped by htmltools and silently corrupted at runtime — avoid them or use DOM-based lookups instead.
encoding	Encoding type for hx-encoding. Use "multipart/form-data" to enable file uploads via <code><input type="file"></code> .
headers	JSON string of request headers for hx-headers (e.g. '{"X-Custom-Header": "value"}'). Values are passed as-is. Do not embed sensitive tokens (auth headers, API keys) in HTML attributes — they are readable by any script on the page.
...	Additional htmx attributes passed as-is (e.g. <code>`hx-disabled-elt` = "this"</code> , <code>`hx-prompt` = "Raison ?"</code>). All arguments must be named. Names must start with <code>hx-</code> or <code>data-hx-</code> — a warning is emitted otherwise. Values are passed without transformation: use "true"/"false" (not TRUE/FALSE) for boolean htmx attributes, and pre-serialized JSON strings for <code>hx-vals</code> or <code>hx-headers</code> .

Value

The input tag with htmx attributes appended.

Examples

```
tags$div(id = "plot") |>
  hx_set(get = "/plot", trigger = "load", target = "#plot", swap = "innerHTML")

hx_set(
  tags$div(id = "result", class = "container"),
  get = "/data",
  trigger = "load"
)
```

hx_slider_input

Slider input

Description

Creates an `<input type="range">` element with optional htmx attributes. When `label` is provided, the input is wrapped in a `<div>` containing a `<label>` element linked via the `for` attribute.

Usage

```
hx_slider_input(
  id,
  label = NULL,
  value = 50,
  min = 0,
  max = 100,
  step = 1,
  name = id,
  class = NULL,
  get = NULL,
  post = NULL,
  put = NULL,
  patch = NULL,
  delete = NULL,
  target = NULL,
  swap = NULL,
  trigger = NULL,
  indicator = NULL,
  swap_oob = NULL,
  confirm = NULL,
  params = NULL,
  include = NULL,
  push_url = NULL,
  select = NULL,
  vals = NULL,
  encoding = NULL,
```

```

    headers = NULL,
    ...
)

```

Arguments

id	Element id. Also used as name by default.
label	Optional label text. When provided, the input is wrapped in a <div> with a <label>.
value	Initial value (default 50).
min	Minimum value (default 0).
max	Maximum value (default 100).
step	Step increment (default 1).
name	Form field name. Defaults to id.
class	Optional CSS class(es) for the <input> element.
get	URL for hx-get.
post	URL for hx-post.
put	URL for hx-put.
patch	URL for hx-patch.
delete	URL for hx-delete. Note: parameters are sent in the URL query string (not the request body) — read them via the injected query argument (e.g. <code>function(query) query\$id</code>) or via <code>request\$query</code> if you are using the full request object in your route.
target	CSS selector for hx-target.
swap	Swap strategy for hx-swap.
trigger	Trigger specification for hx-trigger.
indicator	CSS selector for hx-indicator.
swap_oob	Out-of-band swap targets for hx-swap-oob.
confirm	Confirmation message for hx-confirm.
params	Parameters to submit for hx-params. Use "*" to include all parameters (equivalent to omitting this argument), "none" to send none, or a comma-separated list of names (e.g. "id, name"). Prefix with not to exclude specific parameters (e.g. "not id, name").
include	CSS selector for hx-include. Additional elements whose values are included in the request. htmx relative selectors are valid: "closest form", "find input", "next .sibling". Note: params = "none" does not suppress values sourced via include.
push_url	Push a URL into the browser history for hx-push-url. Use "true" to push the request URL, "false" to disable, or a custom URL.
select	CSS selector for hx-select. Extracts a specific element from the server response before swapping (e.g. "#data-table").

vals	JSON string of extra values to include in the request for hx-vals (e.g. '{"id": 42}'). Values are passed as-is. Avoid js: expressions with HTML-special characters — htmltools will escape them.
encoding	Encoding type for hx-encoding. Use "multipart/form-data" to enable file uploads.
headers	JSON string of request headers for hx-headers (e.g. '{"X-Custom-Header": "value"}'). Values are passed as-is. Do not embed sensitive tokens in HTML attributes.
...	Additional HTML attributes passed to the <input> element.

Value

An `htmltools::tags` object.

Examples

```
# Simple slider
hx_slider_input("bins", label = "Number of bins:", min = 1, max = 50)

# Slider with htmx attributes
hx_slider_input(
  "bins",
  label = "Number of bins:",
  value = 30, min = 1, max = 50,
  get = "/plot",
  trigger = "input changed delay:300ms",
  target = "#plot"
)
```

hx_table

Table with htmx-powered tbody

Description

Builds a complete <table> element with a <thead> and a <tbody>. htmx attributes are applied to the <tbody>, making it the swap target. When data is NULL (the default), the <tbody> is empty and its content is loaded lazily via htmx (e.g. trigger = "load").

Usage

```
hx_table(
  columns,
  data = NULL,
  tbody_id = NULL,
  col_labels = NULL,
  col_classes = NULL,
```

```

    class = NULL,
    thead_class = NULL,
    get = NULL,
    post = NULL,
    put = NULL,
    patch = NULL,
    delete = NULL,
    target = NULL,
    swap = NULL,
    trigger = NULL,
    indicator = NULL,
    swap_oob = NULL,
    confirm = NULL,
    params = NULL,
    include = NULL,
    push_url = NULL,
    select = NULL,
    vals = NULL,
    encoding = NULL,
    headers = NULL,
    ...
)

```

Arguments

columns	Character vector of column names to display. Defines the <thead> structure (required).
data	Optional data frame. If provided, rows are rendered in the <tbody> via hx_table_rows() . If NULL, the <tbody> is empty.
tbody_id	id attribute applied to the <tbody> — not the <table>.
col_labels	Labels for the <thead>. If NULL, column names are used as-is. Can be a named vector (c(price = "Price (\$)")) to override specific columns, or an unnamed positional vector to replace all labels.
col_classes	Named list of CSS classes for <td> cells, passed to hx_table_rows() when data is provided.
class	CSS class(es) for the <table> element.
thead_class	CSS class(es) for the <thead> element.
get	URL for hx-get (applied to <tbody>).
post	URL for hx-post (applied to <tbody>).
put	URL for hx-put (applied to <tbody>).
patch	URL for hx-patch (applied to <tbody>).
delete	URL for hx-delete (applied to <tbody>). Note: parameters are sent in the URL query string — read them via the injected query argument (e.g. <code>function(query) query\$id</code>) or via <code>request\$query</code> if you are using the full request object in your route.

target	CSS selector for hx-target (applied to <tbody>).
swap	Swap strategy for hx-swap (applied to <tbody>).
trigger	Trigger specification for hx-trigger (applied to <tbody>).
indicator	CSS selector for hx-indicator (applied to <tbody>).
swap_oob	Out-of-band swap targets for hx-swap-oob (applied to <tbody>).
confirm	Confirmation message for hx-confirm (applied to <tbody>).
params	Parameters to submit for hx-params. Use "*" to include all parameters (equivalent to omitting this argument), "none" to send none, or a comma-separated list of names (e.g. "id, name"). Prefix with not to exclude specific parameters (e.g. "not id, name").
include	CSS selector for hx-include. Additional elements whose values are included in the request. htmx relative selectors are valid: "closest form", "find input", "next .sibling". Note: params = "none" does not suppress values sourced via include.
push_url	Push a URL into the browser history for hx-push-url (applied to <tbody>). Use "true", "false", or a custom URL.
select	CSS selector for hx-select (applied to <tbody>). Extracts a specific element from the server response before swapping.
vals	JSON string of extra values for hx-vals (applied to <tbody>). Values are passed as-is (e.g. '{"id": 42}'). Avoid js: expressions with HTML-special characters — htmltools will escape them.
encoding	Encoding type for hx-encoding (applied to <tbody>). Use "multipart/form-data" to enable file uploads.
headers	JSON string of request headers for hx-headers (applied to <tbody>). Values are passed as-is. Do not embed sensitive tokens in HTML attributes.
...	Additional HTML attributes passed to the <table> element.

Value

An `htmltools::tags` object (<table>).

Examples

```
# Lazy-load table (empty tbody, content loaded on trigger)
hx_table(
  columns = c("cut", "color", "price"),
  col_labels = c("Cut", "Color", "Price"),
  tbody_id = "tbody",
  get = "/rows",
  trigger = "load",
  swap = "innerHTML"
)

# Table with data pre-rendered
df <- data.frame(cut = c("Fair", "Good"), price = c(326L, 400L))
hx_table(columns = c("cut", "price"), data = df)
```

hx_table_rows	<i>Table rows fragment</i>
---------------	----------------------------

Description

Converts a data frame into a tagList of <tr> elements, one per row. Designed to be used as a fragment endpoint response — the output replaces a <tbody> via htmx swap.

Usage

```
hx_table_rows(data, columns = NULL, col_classes = NULL)
```

Arguments

data	A data frame.
columns	Character vector of column names to include (and their order). If NULL, all columns are used.
col_classes	Named list of CSS classes to add to <td> elements, keyed by column name. Example: list(price = "text-end fw-bold").

Value

A [htmltools::tagList](#) of <tr> tags.

Examples

```
df <- data.frame(cut = c("Fair", "Good"), price = c(326L, 400L))
hx_table_rows(df, columns = c("cut", "price"))

# With CSS classes on specific columns
hx_table_rows(df, col_classes = list(price = "text-end fw-bold"))
```

hx_trigger	<i>Trigger client-side htmx events via response headers</i>
------------	---

Description

Adds an HX-Trigger, HX-Trigger-After-Swap, or HX-Trigger-After-Settle header to a plumber2 response, causing htmx to fire one or more client-side events after the response is received.

Usage

```
hx_trigger(response, event)

hx_trigger_after_swap(response, event)

hx_trigger_after_settle(response, event)
```

Arguments

response	A plumber2 response object. The parameter must be named response in route handlers — it is the only name plumber2 recognises for injecting the response object.
event	One of: <ul style="list-style-type: none"> • A character string — fires a single event: "myEvent". • A character vector — fires multiple events: c("event1", "event2"). • A named list — fires events with detail payloads: list(showMessage = list(level = "info"), confetti = NULL). Each name is an event; each value is its detail (use NULL for no detail).

Details**Timing variants:**

- `hx_trigger()` — fires immediately when the response is received (HX-Trigger).
- `hx_trigger_after_swap()` — fires after htmx swaps the new content into the DOM (HX-Trigger-After-Swap). Use this when the event handler needs to interact with the freshly-swapped elements.
- `hx_trigger_after_settle()` — fires after htmx settles (CSS transitions complete) (HX-Trigger-After-Settle).

Detail serialisation:

When event is a named list, values are serialised to JSON using a minimal built-in serialiser that supports NULL, logicals, numbers, strings, and named lists of the above. No external dependency required.

Value

The response object response, invisibly.

Examples

```
## Not run:
#* @post /submit
function(response) {
  # Simple event
  hx_trigger(response, "formSubmitted")

  # Multiple events
  hx_trigger(response, c("formSubmitted", "refresh"))

  # Event with detail payload
  hx_trigger(response, list(showMessage = list(level = "info", text = "Saved!")))

  list(status = "ok")
}

## End(Not run)
```

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