

Package ‘glasstabs’

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Title Animated Glass-Style Tabs and Select Inputs for 'Shiny'

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Description Tools for creating animated glassmorphism-style tab navigation and select filter widgets in 'Shiny' applications. Provides a tab navigation component with a sliding glass halo animation, a searchable multi-select dropdown, and a single-select dropdown - all with multiple colour themes and server-side update helpers. Tabs support icons, numeric badges, disable/enable toggling, runtime append/remove, reactive rendering via 'renderGlassTabs()', URL bookmarking, and compact mode for dashboard card layouts. 'glassTabCondition()' generates 'conditionalPanel()' condition strings without needing to recall the internal input key pattern. 'glasstabs_news()' displays the release notes from the R console. Built-in example apps can be launched with 'runGlassExample()'. All widgets are compatible with standard 'Shiny' layouts and 'bs4Dash' dashboards and 'bslib' themed applications. For full documentation and examples see Arthur (2026) <<https://prigasg.github.io/glasstabs/>>.

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URL <https://github.com/PrigasG/glasstabs>,
<https://prigasg.github.io/glasstabs/>

BugReports <https://github.com/PrigasG/glasstabs/issues>

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appendGlassTab	<i>Append or remove a glass tab at runtime</i>
----------------	--

Description

appendGlassTab() adds a new glassTabPanel() to an existing glassTabsUI() at runtime. removeGlassTab() removes a tab by value. If the removed tab was active, the first remaining tab is activated.

Usage

```
appendGlassTab(session, id, tab, select = FALSE)
```

```
removeGlassTab(session, id, value)
```

Arguments

session	Shiny session object.
id	Module id matching the id passed to glassTabsUI() .
tab	A glassTabPanel() object (for <code>appendGlassTab()</code> only).
select	Logical. If TRUE, the new tab is immediately activated. Defaults to FALSE.
value	Value of the tab to remove (for <code>removeGlassTab()</code> only).

Value

Called for its side effect; returns NULL invisibly.

See Also

Other glass tabs: [disableGlassTab\(\)](#), [glassTabCondition\(\)](#), [glassTabPanel\(\)](#), [glassTabsOutput\(\)](#), [glassTabsServer\(\)](#), [glassTabsUI\(\)](#), [renderGlassTabs\(\)](#), [showGlassTab\(\)](#), [updateGlassTabBadge\(\)](#), [updateGlassTabsUI\(\)](#)

Examples

```
if (interactive()) {
  library(shiny)
  ui <- fluidPage(
    useGlassTabs(),
    glassTabsUI(
      "tabs",
      glassTabPanel("home", "Home", p("Home content"), selected = TRUE)
    ),
    actionButton("add", "Add tab"),
    actionButton("remove", "Remove tab")
  )
  server <- function(input, output, session) {
    observeEvent(input$add, {
      appendGlassTab(session, "tabs",
        glassTabPanel("new", "New Tab", p("Dynamic content")),
        select = TRUE
      )
    })
    observeEvent(input$remove, {
      removeGlassTab(session, "tabs", "new")
    })
  }
  shinyApp(ui, server)
}
```

closeGlassSelect	<i>Close open glass select dropdowns</i>
------------------	--

Description

Programmatically closes one `glassSelect()` dropdown, one `glassMultiSelect()` dropdown, or every open `glasstabs` select dropdown in the current Shiny session.

Usage

```
closeGlassSelect(session = shiny::getDefaultReactiveDomain(), inputId)

closeGlassMultiSelect(session = shiny::getDefaultReactiveDomain(), inputId)

closeAllGlassSelects(session = shiny::getDefaultReactiveDomain())
```

Arguments

<code>session</code>	Shiny session. Defaults to the current reactive domain.
<code>inputId</code>	Input id of the widget.

Details

These helpers are useful before switching tabs, opening modals, rebuilding UI, or changing layouts that can otherwise leave a dropdown visually open after its trigger moved or disappeared.

Value

No return value. Called for the side effect of closing dropdowns in the browser.

Examples

```
if (interactive()) {
  library(shiny)

  ui <- fluidPage(
    useGlassTabs(),
    actionButton("close", "Close dropdowns"),
    glassSelect("region", c(North = "north", South = "south")),
    glassMultiSelect("filters", c(A = "a", B = "b"))
  )

  server <- function(input, output, session) {
    observeEvent(input$close, {
      closeAllGlassSelects(session)
    })
  }

  shinyApp(ui, server)
```

```
}
```

disableGlassTab	<i>Disable or enable a glass tab</i>
-----------------	--------------------------------------

Description

disableGlassTab() grays out a tab and prevents the user from clicking it without removing it from the navigation bar. enableGlassTab() reverses this. Unlike [hideGlassTab\(\)](#), a disabled tab remains visible.

Usage

```
disableGlassTab(session, id, value)
```

```
enableGlassTab(session, id, value)
```

Arguments

session	Shiny session object.
id	Module id matching the id passed to glassTabsUI() .
value	Value of the tab to disable or enable.

Value

Called for its side effect; returns NULL invisibly.

See Also

Other glass tabs: [appendGlassTab\(\)](#), [glassTabCondition\(\)](#), [glassTabPanel\(\)](#), [glassTabsOutput\(\)](#), [glassTabsServer\(\)](#), [glassTabsUI\(\)](#), [renderGlassTabs\(\)](#), [showGlassTab\(\)](#), [updateGlassTabBadge\(\)](#), [updateGlassTabsUI\(\)](#)

Examples

```
if (interactive()) {
  library(shiny)
  ui <- fluidPage(
    useGlassTabs(),
    glassTabsUI(
      "tabs",
      glassTabPanel("a", "A", p("Tab A"), selected = TRUE),
      glassTabPanel("b", "B", p("Tab B")),
      glassTabPanel("locked", "Locked", p("Locked content"))
    ),
    checkboxInput("unlocked", "Unlock tab", FALSE)
  )
}
```

```

server <- function(input, output, session) {
  # Start with "locked" tab disabled
  observe({
    if (input$unlocked) enableGlassTab(session, "tabs", "locked")
    else                 disableGlassTab(session, "tabs", "locked")
  })
}
shinyApp(ui, server)
}

```

glassFilterTags	<i>Shiny tag helper for a filter-tags display area tied to a glassMultiSelect</i>
-----------------	---

Description

Renders a `<div>` that the JS engine will populate with colored tag pills whenever the corresponding `glassMultiSelect()` selection changes.

Usage

```
glassFilterTags(inputId, class = NULL)
```

Arguments

<code>inputId</code>	The <code>inputId</code> of the <code>glassMultiSelect()</code> this display should reflect.
<code>class</code>	Additional CSS classes for the container.

Value

An `htmltools` tag (`shiny.tag`). A `<div>` container that renders the current selection of the paired `glassMultiSelect()` as dismissible pill tags, kept in sync with the widget automatically via JavaScript.

glassMultiSelect	<i>Animated glass multi-select dropdown filter</i>
------------------	--

Description

A stylized multi-select Shiny input with optional search, style switching, select-all behavior, and programmatic updates via `updateGlassMultiSelect()`.

Usage

```

glassMultiSelect(
  inputId,
  choices,
  selected = NULL,
  label = NULL,
  placeholder = "Filter by Category",
  all_label = "All categories",
  check_style = c("checkbox", "check-only", "filled"),
  show_style_switcher = TRUE,
  show_select_all = TRUE,
  show_clear_all = TRUE,
  theme = "dark",
  shape = c("rounded", "square"),
  width = NULL,
  disabled = FALSE,
  disabled_choices = NULL,
  hues = NULL,
  dark_selector = NULL,
  server = FALSE,
  server_limit = 50L,
  server_min_chars = 0L
)

```

Arguments

inputId	Shiny input id.
choices	Named or unnamed character vector of choices.
selected	Initially selected values. Defaults to all choices when NULL.
label	Optional field label shown above the widget.
placeholder	Trigger label when nothing is selected.
all_label	Label shown when all choices are selected.
check_style	One of "checkbox" (default), "check-only", or "filled".
show_style_switcher	Show the Check / Box / Fill switcher row inside the dropdown? Default TRUE.
show_select_all	Show the "Select all" row? Default TRUE.
show_clear_all	Show the "Clear all" footer link? Default TRUE.
theme	Color theme. One of "dark" (default), "light", "auto", or a glass_select_theme() object. "auto" uses the light preset by default and switches to the dark preset when an ancestor carries data-bs-theme="dark".
shape	Corner style for the trigger and dropdown. One of "rounded" (default) for the signature glass look, or "square" for crisp, selectize-style corners so the widget sits neatly alongside native Shiny selectizeInput() controls.

<code>width</code>	Optional widget width passed to <code>shiny::validateCssUnit()</code> , e.g. <code>100%</code> or <code>240px</code> . When <code>NULL</code> (default) the trigger keeps its intrinsic width.
<code>disabled</code>	Logical. When <code>TRUE</code> the whole widget is greyed out and non-interactive. Default <code>FALSE</code> .
<code>disabled_choices</code>	Optional character vector of choice values to render as disabled (non-selectable) rows. Default <code>NULL</code> .
<code>hues</code>	Optional named integer vector of HSL hue angles (0 to 360) for the "filled" style. Auto-assigned if <code>NULL</code> .
<code>dark_selector</code>	Optional CSS selector that signals dark mode (e.g. <code>"body.dark-mode"</code> for <code>bs4Dash</code>). When provided, emits an extra scoped <code><style></code> block that reverts colors to the dark-mode defaults whenever that selector is active.
<code>server</code>	Logical. If <code>TRUE</code> , render only an initial slice of choices and use glassMultiSelectServer() to search the full choice set from the Shiny server. Default <code>FALSE</code> .
<code>server_limit</code>	Maximum number of choices rendered initially and returned for each server-side search. Default <code>50</code> .
<code>server_min_chars</code>	Minimum search characters required before server-side matching filters choices. Default <code>0</code> .

Details

The widget registers two Shiny inputs:

- `input$<inputId>`: character vector of selected values
- `input$<inputId>_style`: active style string (`"checkbox"`, `"check-only"`, or `"filled"`)

By default, when `selected = NULL`, all choices are initially selected. This preserves the existing package behavior.

Value

An `htmltools::tagList` containing the trigger button, dropdown panel, and scoped `<style>` block.

See Also

Other glass select widgets: [glassMultiSelectServer\(\)](#), [glassMultiSelectValue\(\)](#), [glassSelect\(\)](#), [glassSelectServer\(\)](#), [glassSelectValue\(\)](#), [updateGlassMultiSelect\(\)](#), [updateGlassSelect\(\)](#)

Examples

```
fruits <- c(Apple = "apple", Banana = "banana", Cherry = "cherry")

# Minimal
fruit_filter <- glassMultiSelect("f", fruits)

# Lock style, hide extra controls
```

```
locked_filter <- glassMultiSelect(
  "f",
  fruits,
  check_style = "check-only",
  show_style_switcher = FALSE,
  show_select_all = FALSE,
  show_clear_all = FALSE
)

# Light theme
light_filter <- glassMultiSelect("f", fruits, theme = "light")
```

glassMultiSelectServer

Register server-side search for a glassMultiSelect widget

Description

Use this with `glassMultiSelect(..., server = TRUE)` when the choice set is large. The browser sends search queries to Shiny and the server returns a bounded list of matching choices.

Usage

```
glassMultiSelectServer(
  inputId,
  choices,
  session = shiny::getDefaultReactiveDomain(),
  limit = 50L,
  ignore_case = TRUE
)
```

Arguments

<code>inputId</code>	Input id used in <code>glassMultiSelect()</code> .
<code>choices</code>	Named or unnamed character vector of choices.
<code>session</code>	Shiny session. Defaults to the current reactive domain.
<code>limit</code>	Maximum number of matching choices returned per search. Default 50.
<code>ignore_case</code>	Logical. Match labels and values case-insensitively. Default TRUE.

Value

An observer created by `shiny::observeEvent()`.

See Also

Other glass select widgets: `glassMultiSelect()`, `glassMultiSelectValue()`, `glassSelect()`, `glassSelectServer()`, `glassSelectValue()`, `updateGlassMultiSelect()`, `updateGlassSelect()`

Examples

```

if (interactive()) {
  library(shiny)

  choices <- stats::setNames(
    sprintf("value-%04d", 1:1000),
    sprintf("Choice %04d", 1:1000)
  )

  ui <- fluidPage(
    useGlassTabs(),
    glassMultiSelect("pick", choices, server = TRUE)
  )

  server <- function(input, output, session) {
    glassMultiSelectServer("pick", choices, session = session)
  }

  shinyApp(ui, server)
}

```

glassMultiSelectValue *Reactive helpers for glassMultiSelect values*

Description

Convenience helper for extracting a multi-select widget's value and style from Shiny's input object without using modules.

Usage

```
glassMultiSelectValue(input, inputId)
```

Arguments

input	Shiny input object.
inputId	Input id used in glassMultiSelect() .

Value

A named list with two reactives:

selected Reactive character vector of selected values

style Reactive string for the active style

See Also

Other glass select widgets: [glassMultiSelect\(\)](#), [glassMultiSelectServer\(\)](#), [glassSelect\(\)](#), [glassSelectServer\(\)](#), [glassSelectValue\(\)](#), [updateGlassMultiSelect\(\)](#), [updateGlassSelect\(\)](#)

Examples

```

if (interactive()) {
  library(shiny)

  ui <- fluidPage(
    useGlassTabs(),
    glassMultiSelect("cats", c(A = "a", B = "b", C = "c"))
  )

  server <- function(input, output, session) {
    ms <- glassMultiSelectValue(input, "cats")
    observe({
      message("Selected: ", paste(ms$selected(), collapse = ", "))
      message("Style: ", ms$style())
    })
  }

  shinyApp(ui, server)
}

```

glassSelect

Animated glass single-select dropdown

Description

A stylized single-select Shiny input with optional search, clear control, selection-marker styling, and programmatic updates via [updateGlassSelect\(\)](#).

Usage

```

glassSelect(
  inputId,
  choices,
  selected = NULL,
  label = NULL,
  placeholder = "Select an option",
  searchable = TRUE,
  clearable = FALSE,
  include_all = FALSE,
  all_choice_label = "All categories",
  all_choice_value = "__all__",
  check_style = c("checkbox", "check-only", "filled"),
  theme = "dark",
  shape = c("rounded", "square"),
  width = NULL,
  disabled = FALSE,
  disabled_choices = NULL,

```

```

server = FALSE,
server_limit = 50L,
server_min_chars = 0L
)

```

Arguments

inputId	Shiny input id.
choices	Named or unnamed character vector of choices.
selected	Initially selected value. Defaults to NULL.
label	Optional field label shown above the widget.
placeholder	Trigger label when nothing is selected.
searchable	Logical. Show search input inside dropdown? Default TRUE.
clearable	Logical. Show clear control for removing the current selection? Default FALSE.
include_all	Logical. Prepend an explicit "All" option. Default FALSE.
all_choice_label	Label used for the explicit "All" option.
all_choice_value	Value used for the explicit "All" option.
check_style	One of "checkbox" (default), "check-only", or "filled".
theme	Color theme. One of "dark" (default), "light", "auto", or a glass_select_theme() object. "auto" uses the light preset by default and switches to the dark preset when an ancestor carries data-bs-theme="dark".
shape	Corner style for the trigger and dropdown. One of "rounded" (default) for the signature glass look, or "square" for crisp, selectize-style corners so the widget sits neatly alongside native Shiny selectizeInput() controls.
width	Optional widget width passed to shiny::validateCssUnit(), e.g. 100% or 240px. When NULL (default) the trigger keeps its intrinsic width.
disabled	Logical. When TRUE the whole widget is greyed out and non-interactive. Default FALSE.
disabled_choices	Optional character vector of choice values to render as disabled (non-selectable) rows. Default NULL.
server	Logical. If TRUE, render only an initial slice of choices and use glassSelectServer() to search the full choice set from the Shiny server. Default FALSE.
server_limit	Maximum number of choices rendered initially and returned for each server-side search. Default 50.
server_min_chars	Minimum search characters required before server-side matching filters choices. Default 0.

Details

The widget registers one Shiny input:

- `input$<inputId>` : selected value as a length-1 character string, or NULL when nothing is selected

Value

An `htmltools::tagList` containing the single-select trigger, dropdown panel, and scoped `<style>` block.

See Also

Other glass select widgets: [glassMultiSelect\(\)](#), [glassMultiSelectServer\(\)](#), [glassMultiSelectValue\(\)](#), [glassSelectServer\(\)](#), [glassSelectValue\(\)](#), [updateGlassMultiSelect\(\)](#), [updateGlassSelect\(\)](#)

Examples

```
fruits <- c(Apple = "apple", Banana = "banana", Cherry = "cherry")

fruit_select <- glassSelect("fruit", fruits)

selected_fruit <- glassSelect(
  "fruit",
  fruits,
  selected = "banana",
  clearable = TRUE
)

all_fruits <- glassSelect(
  "fruit",
  fruits,
  include_all = TRUE,
  all_choice_label = "All fruits",
  all_choice_value = "__all__"
)

filled_fruit <- glassSelect(
  "fruit",
  fruits,
  check_style = "filled"
)
```

glassSelectServer	<i>Register server-side search for a glassSelect widget</i>
-------------------	---

Description

Use this with `glassSelect(..., server = TRUE)` when the choice set is large. The browser sends search queries to Shiny and the server returns a bounded list of matching choices.

Usage

```
glassSelectServer(  
  inputId,  
  choices,  
  session = shiny::getDefaultReactiveDomain(),  
  limit = 50L,  
  ignore_case = TRUE  
)
```

Arguments

inputId	Input id used in glassSelect() .
choices	Named or unnamed character vector of choices.
session	Shiny session. Defaults to the current reactive domain.
limit	Maximum number of matching choices returned per search. Default 50.
ignore_case	Logical. Match labels and values case-insensitively. Default TRUE.

Value

An observer created by [shiny::observeEvent\(\)](#).

See Also

Other glass select widgets: [glassMultiSelect\(\)](#), [glassMultiSelectServer\(\)](#), [glassMultiSelectValue\(\)](#), [glassSelect\(\)](#), [glassSelectValue\(\)](#), [updateGlassMultiSelect\(\)](#), [updateGlassSelect\(\)](#)

Examples

```
if (interactive()) {  
  library(shiny)  
  
  choices <- stats::setNames(  
    sprintf("value-%04d", 1:1000),  
    sprintf("Choice %04d", 1:1000)  
  )  
  
  ui <- fluidPage(  
    useGlassTabs(),  
    glassSelect("pick", choices, server = TRUE)  
  )  
  
  server <- function(input, output, session) {  
    glassSelectServer("pick", choices, session = session)  
  }  
  
  shinyApp(ui, server)  
}
```

glassSelectValue	<i>Reactive helper for glassSelect values</i>
------------------	---

Description

Convenience helper for extracting a single-select widget's value from Shiny's input object without using modules.

Usage

```
glassSelectValue(input, inputId)
```

Arguments

input	Shiny input object.
inputId	Input id used in glassSelect() .

Value

A reactive expression returning the current selected value as a character scalar, or NULL when nothing is selected.

See Also

Other glass select widgets: [glassMultiSelect\(\)](#), [glassMultiSelectServer\(\)](#), [glassMultiSelectValue\(\)](#), [glassSelect\(\)](#), [glassSelectServer\(\)](#), [updateGlassMultiSelect\(\)](#), [updateGlassSelect\(\)](#)

Examples

```
if (interactive()) {
  library(shiny)

  ui <- fluidPage(
    useGlassTabs(),
    glassSelect("fruit", c(Apple = "apple", Banana = "banana"))
  )

  server <- function(input, output, session) {
    fruit <- glassSelectValue(input, "fruit")
    observe({
      print(fruit())
    })
  }

  shinyApp(ui, server)
}
```

glassTabCondition	<i>Build a conditionalPanel condition for a glasstabs widget</i>
-------------------	--

Description

Returns a JavaScript condition string that evaluates to TRUE when the specified glasstabs widget has a given active tab. Pass the result directly to the condition argument of `shiny::conditionalPanel()`.

Usage

```
glassTabCondition(id, value)
```

Arguments

id	The id passed to <code>glassTabsUI()</code> . Inside a Shiny module use <code>ns("tabs")</code> here (same id you passed to <code>glassTabsUI()</code>), NOT the bare id you pass to <code>glassTabsServer()</code> .
value	The tab value string (the value argument of the target <code>glassTabPanel()</code>) that should trigger the condition.

Value

A single character string for use in `shiny::conditionalPanel()`.

See Also

Other glass tabs: `appendGlassTab()`, `disableGlassTab()`, `glassTabPanel()`, `glassTabsOutput()`, `glassTabsServer()`, `glassTabsUI()`, `renderGlassTabs()`, `showGlassTab()`, `updateGlassTabBadge()`, `updateGlassTabsUI()`

Examples

```
# Returns a plain JS condition string - no Shiny session needed:
glassTabCondition("main", "details")

# Inside a module - use ns() for the id:
# UI:   glassTabCondition(ns("tabs"), "details")
# This produces: "input['mymod-tabs-active_tab'] === 'details'"

# Full app example showing conditionalPanel usage:
if (interactive()) {
  library(shiny)
  ui <- fluidPage(
    useGlassTabs(),
    glassTabsUI(
      "main",
      glassTabPanel("overview", "Overview", selected = TRUE,
        p("Always visible.")),
      glassTabPanel("details", "Details",
```

```

      p("Detail pane."))
    ),
    conditionalPanel(
      condition = glassTabCondition("main", "details"),
      wellPanel("This panel only shows on the Details tab.")
    )
  )
  server <- function(input, output, session) {}
  shinyApp(ui, server)
}

```

glassTabPanel	<i>Define a single glass tab panel</i>
---------------	--

Description

Used as child arguments inside [glassTabsUI\(\)](#). Each call defines one tab button and its associated content pane.

Usage

```
glassTabPanel(value, label, ..., icon = NULL, selected = FALSE)
```

Arguments

value	A unique string identifier for this tab (e.g. "A").
label	The text shown on the tab button.
...	UI elements for the pane content.
icon	Optional icon shown to the left of the tab label. Accepts any htmltools-compatible tag, e.g. <code>shiny::icon("table")</code> or <code>fontawesome::fa("house")</code> . Pass <code>NULL</code> (default) for no icon.
selected	Logical. Whether this tab starts selected. Only the first <code>selected = TRUE</code> tab takes effect; defaults to <code>FALSE</code> .

Value

A list of class "glassTabPanel" consumed by [glassTabsUI\(\)](#).

See Also

Other glass tabs: [appendGlassTab\(\)](#), [disableGlassTab\(\)](#), [glassTabCondition\(\)](#), [glassTabsOutput\(\)](#), [glassTabsServer\(\)](#), [glassTabsUI\(\)](#), [renderGlassTabs\(\)](#), [showGlassTab\(\)](#), [updateGlassTabBadge\(\)](#), [updateGlassTabsUI\(\)](#)

Examples

```
# Plain text label
overview_tab <- glassTabPanel("overview", "Overview",
  shiny::h3("Welcome"),
  shiny::p("This is the overview tab.")
)

# With a Shiny icon
data_tab <- glassTabPanel("data", "Data",
  icon = shiny::icon("table"),
  shiny::p("Data content here.")
)
```

glassTabsOutput	<i>Dynamic glass tab UI output</i>
-----------------	------------------------------------

Description

A drop-in replacement for `shiny::uiOutput()` that pairs with `renderGlassTabs()`. It creates a placeholder `<div>` that Shiny fills with a fully reactive `glassTabsUI()` when the server-side render function runs. The JavaScript engine is automatically (re-)initialised after each render.

Usage

```
glassTabsOutput(outputId, ...)
```

Arguments

<code>outputId</code>	The output id used in the paired <code>renderGlassTabs()</code> call.
<code>...</code>	Additional arguments forwarded to <code>shiny::uiOutput()</code> .

Value

A `shiny.tag` suitable for use in a Shiny UI.

See Also

Other glass tabs: `appendGlassTab()`, `disableGlassTab()`, `glassTabCondition()`, `glassTabPanel()`, `glassTabsServer()`, `glassTabsUI()`, `renderGlassTabs()`, `showGlassTab()`, `updateGlassTabBadge()`, `updateGlassTabsUI()`

Examples

```
# Creates a UI placeholder tag - no Shiny session needed:
tabs_placeholder <- glassTabsOutput("my_tabs")

# Full dynamic-tab app example:
if (interactive()) {
  library(shiny)

  tab_data <- list(
    list(value = "a", label = "Alpha"),
    list(value = "b", label = "Beta"),
    list(value = "c", label = "Gamma")
  )

  ui <- fluidPage(
    useGlassTabs(),
    selectInput("n", "Show tabs", choices = 2:3, selected = 2),
    glassTabsOutput("dynamic_tabs")
  )

  server <- function(input, output, session) {
    output$dynamic_tabs <- renderGlassTabs({
      panels <- lapply(
        head(tab_data, as.integer(input$n)),
        function(t) glassTabPanel(t$value, t$label, p(t$label))
      )
      do.call(glassTabsUI, c(list("dyn"), panels))
    })
  }

  shinyApp(ui, server)
}
```

glassTabsServer

Server logic for glass tabs

Description

Tracks the active tab and exposes it as a reactive value. Optionally integrates with Shiny's bookmarking system so the active tab is preserved in bookmarked URLs.

Usage

```
glassTabsServer(id, bookmark = TRUE)
```

Arguments

id Module id matching the id passed to `glassTabsUI()`. Do **not** wrap this in `ns()` - `glassTabsServer()` handles namespacing internally via `shiny::moduleServer()`.

bookmark Logical. When TRUE (default), registers `shiny::onBookmark()` and `shiny::onRestored()` hooks so the active tab is saved and restored automatically when Shiny bookmarking is enabled. Set to FALSE to opt out.

Details

`glassTabsServer()` follows the same calling convention as all Shiny module server functions: pass the **bare** module id, not a namespaced one. Inside a parent module, pair it with `glassTabsUI(ns("tabs"), ...)` in the UI, and call `glassTabsServer("tabs")` (without `ns()`) in the server.

Value

A reactive expression returning the active tab value.

See Also

Other glass tabs: `appendGlassTab()`, `disableGlassTab()`, `glassTabCondition()`, `glassTabPanel()`, `glassTabsOutput()`, `glassTabsUI()`, `renderGlassTabs()`, `showGlassTab()`, `updateGlassTabBadge()`, `updateGlassTabsUI()`

Examples

```
# --- Standalone app ---
if (interactive()) {
  library(shiny)
  ui <- fluidPage(
    useGlassTabs(),
    glassTabsUI(
      "tabs",
      glassTabPanel("a", "A", p("Tab A"), selected = TRUE),
      glassTabPanel("b", "B", p("Tab B"))
    )
  )
  server <- function(input, output, session) {
    active <- glassTabsServer("tabs")
    observe(print(active()))
  }
  shinyApp(ui, server)
}

# --- Bookmarking ---
if (interactive()) {
  library(shiny)
  ui <- function(request) {
    fluidPage(
      useGlassTabs(),
      bookmarkButton(),
      glassTabsUI(
        "tabs",
        glassTabPanel("a", "A", p("Tab A"), selected = TRUE),
        glassTabPanel("b", "B", p("Tab B"))
      )
    )
  }
}
```

```

    )
  }
  server <- function(input, output, session) {
    active <- glassTabsServer("tabs", bookmark = TRUE)
  }
  shinyApp(ui, server, enableBookmarking = "url")
}

# --- Inside a Shiny module ---
# UI side: use ns() to namespace the widget id
my_module_ui <- function(id) {
  ns <- shiny::NS(id)
  shiny::tagList(
    useGlassTabs(),
    glassTabsUI(
      ns("tabs"), # <-- ns() wraps the id here
      glassTabPanel("a", "A", p("Tab A"), selected = TRUE),
      glassTabPanel("b", "B", p("Tab B"))
    )
  )
}

# Server side: pass the bare id - NOT ns("tabs")
my_module_server <- function(id) {
  shiny::moduleServer(id, function(input, output, session) {
    active <- glassTabsServer("tabs") # <-- bare id, no ns()
    shiny::observe(print(active()))
  })
}

```

glassTabsUI

Animated glass-style tab navigation UI

Description

Animated glass-style tab navigation UI

Usage

```

glassTabsUI(
  id,
  ...,
  selected = NULL,
  wrap = TRUE,
  compact = FALSE,
  shape = c("rounded", "square"),
  indicator = c("glass", "solid", "underline"),
  orientation = c("horizontal", "vertical"),
  tab_align = c("center", "left", "right"),

```

```

    extra_ui = NULL,
    theme = NULL,
    dark_selector = NULL
)

```

Arguments

id	Module namespace id.
...	One or more <code>glassTabPanel()</code> objects.
selected	Value of the initially selected tab.
wrap	Logical. When TRUE wraps everything in a <code>div.gt-container</code> .
compact	Logical. When TRUE applies reduced padding and spacing via the <code>.gt-compact</code> CSS modifier - useful inside dashboard cards or tight layouts (e.g. <code>bs4Dash</code>).
shape	Corner style for the tab bar and content. One of "rounded" (default) for the signature glass look, or "square" for crisp, selectize-style corners that match <code>glassSelect()</code> and <code>glassMultiSelect()</code> when <code>shape = "square"</code> .
indicator	Style of the sliding active-tab indicator. One of: "glass" (default) - the signature frosted-glass halo with backdrop blur, shimmer, and transfer particle. "solid" - a flat, opaque sliding pill. No backdrop-filter or shimmer; lighter on the GPU and better suited to plain or enterprise-style dashboards. Colors still follow the theme's <code>halo_bg</code> / <code>halo_border</code>. "underline" - a slim sliding bar under the active tab; tab buttons lose their pill background for a classic tabbed look. The bar color follows the theme's <code>halo_border</code>.
orientation	One of "horizontal" (default) or "vertical". In vertical mode the tab buttons stack in a left-hand rail and the content pane sits beside them. The sliding halo follows automatically, arrow-key navigation switches to Up/Down, and <code>indicator = "underline"</code> renders as a slim bar on the edge of the active tab adjacent to the content.
tab_align	Alignment for text and icons inside each tab button. One of "center" (default), "left", or "right".
extra_ui	Optional additional UI placed to the right of the tab bar (below the tab rail when <code>orientation = "vertical"</code>).
theme	One of "dark", "light", "auto", or a <code>glass_tab_theme()</code> object. "auto" bridges to Bootstrap 5 / bslib color modes: light-theme variables apply by default and dark-theme variables apply whenever an ancestor carries <code>data-bs-theme="dark"</code> (e.g. <code>bslib::toggle_dark_mode()</code> or <code>input_dark_mode()</code>), with the switch handled live in the browser - no server round-trip.
dark_selector	Optional CSS selector for a parent element that signals dark mode (e.g. <code>"body.dark-mode"</code> for <code>bs4Dash</code> , <code>"[data-bs-theme=dark]"</code> for Bootstrap 5). When provided and <code>theme = "light"</code> , a second scoped <code><style></code> block overrides the CSS variables back to the dark-mode defaults whenever that selector is active - so the tabs stay readable after a dark-mode toggle without any server-side intervention.

Value

An `htmltools::tagList` ready to use in a Shiny UI.

See Also

Other glass tabs: [appendGlassTab\(\)](#), [disableGlassTab\(\)](#), [glassTabCondition\(\)](#), [glassTabPanel\(\)](#), [glassTabsOutput\(\)](#), [glassTabsServer\(\)](#), [renderGlassTabs\(\)](#), [showGlassTab\(\)](#), [updateGlassTabBadge\(\)](#), [updateGlassTabsUI\(\)](#)

<code>glasstabs_news</code>	<i>Display the glasstabs changelog</i>
-----------------------------	--

Description

Prints the package NEWS to the R console. Useful for quickly checking what changed between versions without leaving your R session.

Usage

```
glasstabs_news()
```

Value

Called for its side effect; returns NULL invisibly.

Examples

```
if (interactive()) {
  glasstabs_news()
}
```

<code>glass_select_theme</code>	<i>Create a custom color theme for glass select widgets</i>
---------------------------------	---

Description

All color arguments accept any valid CSS color string (hex, `rgb()`, `rgba()`, named colors). Unset fields inherit from the mode base preset.

Usage

```
glass_select_theme(
  mode = c("dark", "light"),
  bg_color = NULL,
  border_color = NULL,
  text_color = NULL,
  accent_color = NULL,
  label_color = NULL
)
```

Arguments

mode	Base preset. One of "dark" (default) or "light". Custom colors are layered on top.
bg_color	Background of the trigger button and dropdown panel.
border_color	Border color of the trigger and dropdown.
text_color	Main text color for options and the trigger label.
accent_color	Highlight color for checkmarks, badges, and selected states. Also used for the focus ring.
label_color	Widget label color. Defaults to text_color when NULL.

Value

A named list of class "glass_select_theme" for passing to the theme argument of `glassMultiSelect()` or `glassSelect()`.

Examples

```
# Teal accent on a dark base
teal_theme <- glass_select_theme(
  mode = "dark",
  accent_color = "#2dd4bf",
  bg_color = "rgba(9, 20, 42, 0.97)"
)

# Light mode with a custom purple accent
purple_light <- glass_select_theme(
  mode = "light",
  accent_color = "#7c3aed",
  border_color = "rgba(124, 58, 237, 0.35)"
)

if (interactive()) {
  library(shiny)
  choices <- c(Revenue = "rev", Orders = "ord", Returns = "ret")
  ui <- fluidPage(
    useGlassTabs(),
    glassMultiSelect("metric", choices, theme = teal_theme),
    glassSelect("region", c(All = "all", North = "n", South = "s"),
```

```

        theme = purple_light)
  )
  server <- function(input, output, session) {}
  shinyApp(ui, server)
}

```

glass_tab_theme

Create a custom color theme for glassTabsUI

Description

All arguments accept any valid CSS color string (hex, rgb(), rgba(), named colors). Pass only the fields you want to override - unset fields fall back to the dark-mode defaults.

Usage

```

glass_tab_theme(
  tab_text = NULL,
  tab_active_text = NULL,
  halo_bg = NULL,
  halo_border = NULL,
  content_bg = NULL,
  content_border = NULL,
  card_bg = NULL,
  card_text = NULL
)

```

Arguments

tab_text	Inactive tab text color.
tab_active_text	Active tab text color (and headings inside cards).
halo_bg	Background fill of the animated glass halo.
halo_border	Border color of the glass halo.
content_bg	Tab content area background.
content_border	Tab content area border.
card_bg	Inner .gt-card background.
card_text	Inner .gt-card text color.

Value

A named list of class "glass_tab_theme" for passing to the theme argument of [glassTabsUI\(\)](#).

Note

Light mode color accessibility: When building a light-mode theme, ensure `tab_text` is dark enough to read on a white background (e.g. at least "#374151") and `tab_active_text` provides strong contrast (e.g. "#1d4ed8" or darker). Light-grey or near-white values that look fine on dark backgrounds become invisible on light ones.

Examples

```
# Amber / warm accent on a dark base
amber <- glass_tab_theme(
  halo_bg      = "rgba(251, 191, 36, 0.15)",
  halo_border  = "rgba(251, 191, 36, 0.40)",
  tab_active_text = "#fef3c7"
)

if (interactive()) {
  library(shiny)
  ui <- fluidPage(
    useGlassTabs(),
    glassTabsUI(
      "demo",
      glassTabPanel("a", "Alpha", selected = TRUE, p("Alpha content")),
      glassTabPanel("b", "Beta", p("Beta content")),
      theme = amber
    )
  )
  server <- function(input, output, session) {}
  shinyApp(ui, server)
}
```

renderGlassTabs

*Render a reactive glass tab UI***Description**

Server-side render function that pairs with `glassTabsOutput()`. The expression should return a `glassTabsUI()` call. After each render the `glasstabs` JavaScript engine is automatically reinitialised so animations and event handlers are correctly attached to the new DOM nodes.

Usage

```
renderGlassTabs(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

<code>expr</code>	An expression that returns a <code>glassTabsUI()</code> tag object.
<code>env</code>	The environment in which to evaluate <code>expr</code> .
<code>quoted</code>	Logical. Whether <code>expr</code> is already quoted.

Value

A render function suitable for assigning to an output slot.

See Also

Other glass tabs: [appendGlassTab\(\)](#), [disableGlassTab\(\)](#), [glassTabCondition\(\)](#), [glassTabPanel\(\)](#), [glassTabsOutput\(\)](#), [glassTabsServer\(\)](#), [glassTabsUI\(\)](#), [showGlassTab\(\)](#), [updateGlassTabBadge\(\)](#), [updateGlassTabsUI\(\)](#)

Examples

```
if (interactive()) {
  library(shiny)

  ui <- fluidPage(
    useGlassTabs(),
    radioButtons("theme", "Theme", c("dark", "light"), inline = TRUE),
    glassTabsOutput("tabs_out")
  )

  server <- function(input, output, session) {
    output$tabs_out <- renderGlassTabs({
      glassTabsUI(
        "themed",
        glassTabPanel("x", "X", selected = TRUE, p("X content")),
        glassTabPanel("y", "Y", p("Y content")),
        theme = input$theme
      )
    })
  }

  shinyApp(ui, server)
}
```

runGlassExample

Run a built-in glasstabs example app

Description

Launches one of the example Shiny apps that ship with the package. A list of available examples is printed when called with no arguments. Example apps are launched only in interactive sessions.

Usage

```
runGlassExample(example = NULL, ...)
```

Arguments

example	Name of the example to run, such as "basic", "bslib", "connect-workflow", "dashboard", "indicators", "server-select", "smoke-test", or "square-corners". When NULL (default), lists all available examples.
...	Additional arguments passed to <code>shiny::runApp()</code> .

Value

Called for its side-effect (launches a Shiny app).

Examples

```
# List available examples
runGlassExample()

# Run an example interactively
if (interactive()) {
  runGlassExample("bslib")
  runGlassExample("connect-workflow")
  runGlassExample("smoke-test")
  runGlassExample("server-select")
}
```

showGlassTab	<i>Show or hide a glass tab</i>
--------------	---------------------------------

Description

`showGlassTab()` makes a hidden tab visible again. `hideGlassTab()` hides a tab from the navigation bar. If the hidden tab is currently active, the first remaining visible tab is activated automatically.

Usage

```
showGlassTab(session, id, value)
```

```
hideGlassTab(session, id, value)
```

Arguments

session	Shiny session object.
id	Module id matching the id passed to <code>glassTabsUI()</code> .
value	Value of the tab to show or hide.

Value

Called for its side effect; returns NULL invisibly.

See Also

Other glass tabs: [appendGlassTab\(\)](#), [disableGlassTab\(\)](#), [glassTabCondition\(\)](#), [glassTabPanel\(\)](#), [glassTabsOutput\(\)](#), [glassTabsServer\(\)](#), [glassTabsUI\(\)](#), [renderGlassTabs\(\)](#), [updateGlassTabBadge\(\)](#), [updateGlassTabsUI\(\)](#)

Examples

```
if (interactive()) {
  library(shiny)
  ui <- fluidPage(
    useGlassTabs(),
    glassTabsUI(
      "tabs",
      glassTabPanel("a", "A", p("Tab A"), selected = TRUE),
      glassTabPanel("b", "B", p("Tab B")),
      glassTabPanel("admin", "Admin", p("Admin only"))
    ),
    checkboxInput("is_admin", "Admin mode", FALSE)
  )
  server <- function(input, output, session) {
    observeEvent(input$is_admin, {
      if (input$is_admin) showGlassTab(session, "tabs", "admin")
      else hideGlassTab(session, "tabs", "admin")
    }, ignoreInit = FALSE)
  }
  shinyApp(ui, server)
}
```

updateGlassMultiSelect

Update a glassMultiSelect widget

Description

Update the available choices and/or current selection of an existing [glassMultiSelect\(\)](#) input.

Usage

```
updateGlassMultiSelect(
  session,
  inputId,
  choices = NULL,
  selected = NULL,
  check_style = NULL,
  shape = NULL,
  disabled = NULL,
  disabled_choices = NULL
)
```

Arguments

<code>session</code>	Shiny session.
<code>inputId</code>	Input id of the widget.
<code>choices</code>	New choices, or NULL to keep current choices.
<code>selected</code>	New selected values, or NULL to keep current selection. Use <code>character(0)</code> to clear.
<code>check_style</code>	Optional new style string. One of "checkbox", "check-only", or "filled". Defaults to NULL, which keeps the current style unchanged.
<code>shape</code>	Optional new corner style. One of "rounded" or "square". Defaults to NULL, which keeps the current shape unchanged.
<code>disabled</code>	Optional logical. TRUE/FALSE toggles the whole-widget disabled state. Defaults to NULL, which leaves it unchanged.
<code>disabled_choices</code>	Optional character vector of choice values to render as disabled. Defaults to NULL, which leaves disabled choices unchanged.

Details

This function now follows Shiny-style update semantics more closely:

- `choices = NULL` leaves choices unchanged
- `selected = NULL` leaves selection unchanged
- `selected = character(0)` clears the selection

When `choices` is supplied and `selected` is not, the browser side keeps the intersection of the current selection and the new set of choices.

Value

No return value. Called for its side effect of updating the client-side widget.

See Also

Other glass select widgets: [glassMultiSelect\(\)](#), [glassMultiSelectServer\(\)](#), [glassMultiSelectValue\(\)](#), [glassSelect\(\)](#), [glassSelectServer\(\)](#), [glassSelectValue\(\)](#), [updateGlassSelect\(\)](#)

updateGlassSelect	<i>Update a glassSelect widget</i>
-------------------	------------------------------------

Description

Update the available choices, current selection, and/or selection-marker style of an existing `glassSelect()` input.

Usage

```
updateGlassSelect(  
  session,  
  inputId,  
  choices = NULL,  
  selected = NULL,  
  check_style = NULL,  
  shape = NULL,  
  disabled = NULL,  
  disabled_choices = NULL  
)
```

Arguments

<code>session</code>	Shiny session.
<code>inputId</code>	Input id of the widget.
<code>choices</code>	New choices, or NULL to keep current choices.
<code>selected</code>	New selected value, or NULL to keep the current selection. Use <code>character(0)</code> to clear.
<code>check_style</code>	Optional new style string. One of "checkbox", "check-only", or "filled". Defaults to NULL, which keeps the current style unchanged.
<code>shape</code>	Optional new corner style. One of "rounded" or "square". Defaults to NULL, which keeps the current shape unchanged.
<code>disabled</code>	Optional logical. TRUE/FALSE toggles the whole-widget disabled state. Defaults to NULL, which leaves it unchanged.
<code>disabled_choices</code>	Optional character vector of choice values to render as disabled. Defaults to NULL, which leaves disabled choices unchanged.

Details

This function follows Shiny-style update semantics:

- `choices = NULL` leaves choices unchanged
- `selected = NULL` leaves selection unchanged
- `selected = character(0)` clears the selection

- `check_style = NULL` leaves the current style unchanged

When `choices` is supplied and `selected` is not, the browser side keeps the current selection if it is still present in the new choices.

Value

No return value. Called for its side effect of updating the client-side widget.

See Also

Other glass select widgets: [glassMultiSelect\(\)](#), [glassMultiSelectServer\(\)](#), [glassMultiSelectValue\(\)](#), [glassSelect\(\)](#), [glassSelectServer\(\)](#), [glassSelectValue\(\)](#), [updateGlassMultiSelect\(\)](#)

updateGlassTabBadge	<i>Update the badge count on a glass tab</i>
---------------------	--

Description

Adds or updates a small numeric badge on a tab button - useful for surfacing counts such as unread items, pending rows, or notification totals. Set count to 0 or NA to hide the badge.

Usage

```
updateGlassTabBadge(session, id, value, count)
```

Arguments

<code>session</code>	Shiny session object.
<code>id</code>	Module id matching the <code>id</code> passed to glassTabsUI() .
<code>value</code>	Value of the tab to update.
<code>count</code>	Integer count to display. Values above 99 are shown as "99+". 0 or NA hides the badge.

Value

Called for its side effect; returns NULL invisibly.

See Also

Other glass tabs: [appendGlassTab\(\)](#), [disableGlassTab\(\)](#), [glassTabCondition\(\)](#), [glassTabPanel\(\)](#), [glassTabsOutput\(\)](#), [glassTabsServer\(\)](#), [glassTabsUI\(\)](#), [renderGlassTabs\(\)](#), [showGlassTab\(\)](#), [updateGlassTabsUI\(\)](#)

Examples

```

if (interactive()) {
  library(shiny)
  ui <- fluidPage(
    useGlassTabs(),
    glassTabsUI(
      "tabs",
      glassTabPanel("inbox", "Inbox", p("Messages here"), selected = TRUE),
      glassTabPanel("sent", "Sent", p("Sent items")),
      glassTabPanel("drafts", "Drafts", p("Draft items"))
    ),
    actionButton("refresh", "Refresh counts")
  )
  server <- function(input, output, session) {
    observeEvent(input$refresh, {
      updateGlassTabBadge(session, "tabs", "inbox", count = sample(1:20, 1))
      updateGlassTabBadge(session, "tabs", "drafts", count = sample(0:5, 1))
    })
  }
  shinyApp(ui, server)
}

```

updateGlassTabsUI

*Programmatically switch the active glass tab***Description**

Server-side equivalent of Shiny's `updateTabsetPanel()`. Sends a message to the browser to animate the tab switch just as if the user had clicked the tab button.

Usage

```
updateGlassTabsUI(session, id, selected)
```

Arguments

<code>session</code>	Shiny session object.
<code>id</code>	Module id matching the id passed to <code>glassTabsUI()</code> .
<code>selected</code>	Value of the tab to activate.

Value

Called for its side effect; returns NULL invisibly.

See Also

Other glass tabs: `appendGlassTab()`, `disableGlassTab()`, `glassTabCondition()`, `glassTabPanel()`, `glassTabsOutput()`, `glassTabsServer()`, `glassTabsUI()`, `renderGlassTabs()`, `showGlassTab()`, `updateGlassTabBadge()`

Examples

```

if (interactive()) {
  library(shiny)
  ui <- fluidPage(
    useGlassTabs(),
    glassTabsUI(
      "tabs",
      glassTabPanel("a", "A", p("Tab A"), selected = TRUE),
      glassTabPanel("b", "B", p("Tab B"))
    ),
    actionButton("go", "Go to B")
  )
  server <- function(input, output, session) {
    observeEvent(input$go, {
      updateGlassTabsUI(session, "tabs", selected = "b")
    })
  }
  shinyApp(ui, server)
}

```

useGlassTabs

Attach glasstabs CSS and JS dependencies

Description

Call this once in your UI - either inside `fluidPage()`, `bs4DashPage()`, or any other Shiny page wrapper. It injects the required CSS and JS as proper `htmltools` dependencies so they are deduplicated automatically.

Usage

```
useGlassTabs()
```

Value

An `htmltools::htmlDependency` object (invisible to the user, consumed by Shiny's renderer).

Examples

```

# Returns an htmlDependency object - no Shiny session needed:
deps <- useGlassTabs()

# Typical usage inside a Shiny UI:
if (interactive()) {
  library(shiny)
  ui <- fluidPage(
    useGlassTabs(),
    glassTabsUI("demo",
      glassTabPanel("A", "Tab A", p("Content A")),

```

```
      glassTabPanel("B", "Tab B", p("Content B"))
    )
  )
  server <- function(input, output, session) {}
  shinyApp(ui, server)
}
```

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