

# Package ‘DT2’

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**Type** Package

**Title** 'DataTables' 2.x for R

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**Description** A modern R binding for 'DataTables' V2 with modular extension loading, 'Bootstrap 5' styling, 'Shiny' integration (proxy, events, inline inputs), server-side processing helpers, and standalone (non-Shiny) support. Configure 'DataTables' options directly via R lists, a 1:1 mapping to the 'JavaScript' API.

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**URL** <https://github.com/StrategicProjects/DT2>,  
<https://strategicprojects.github.io/DT2/>

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rmarkdown, testthat (>= 3.1.0)

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**Author** Andre Leite [aut, cre],  
Marcos Wasilew [aut],  
Hugo Vasconcelos [aut],  
Carlos Amorin [aut],  
Diogo Bezerra [aut]

**Maintainer** Andre Leite <leite@castlab.org>

**Repository** CRAN

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## Description

The main function for creating interactive DataTables. Works standalone (R Markdown, Quarto, Viewer) and inside Shiny.

**Styling** is controlled directly via theme, striped, hover, compact, font\_scale – or a CSS class string for full control.

**DataTables configuration** goes in options (1:1 mapping to the JavaScript API). The two concerns are cleanly separated.

## Usage

```
dt2(
  data,
  theme = "default",
  striped = NULL,
  hover = NULL,
  compact = NULL,
  font_scale = NULL,
  style = NULL,
  class = NULL,
  button_class = NULL,
  responsive = TRUE,
  options = list(),
  extensions = NULL,
  width = "100%",
  height = NULL,
  elementId = NULL
)
```

## Arguments

data	A data.frame, tibble, or matrix.
theme	A theme preset name ("default", "clean", "minimal", "compact") or a <code>dt2_theme()</code> object. Default: "default".
striped, hover, compact	Logical; override the theme. NULL (default) = use theme value.
font_scale	Numeric; override the theme font-scale. NULL (default) = use theme value.
style	Styling framework: "bootstrap5" (default) or "core".
class	Optional CSS class string (e.g., "table table-dark"). If provided, overrides all theme-generated classes.
button_class	CSS class for Buttons extension buttons. Default: "btn btn-sm btn-outline-secondary". Examples: "btn btn-sm btn-primary", "btn btn-sm btn-outline-dark".

responsive	Logical; enable the Responsive extension so the table fills 100\ Default: TRUE. Set FALSE to disable.
options	List of DataTables options. See <a href="https://datatables.net/reference/option/">https://datatables.net/reference/option/</a> .
extensions	Character vector of extensions to load (e.g., c("Buttons", "Select")). Auto-detected from options when NULL.
width, height	CSS dimensions.
elementId	Optional HTML element ID.

### Value

An htmlwidget object.

### Examples

```
# Just works – beautiful defaults
dt2(iris)

# Override style inline
dt2(iris, striped = FALSE)
dt2(iris, font_scale = 0.85, compact = FALSE)

# Theme presets
dt2(iris, theme = "minimal")
dt2(iris, theme = "compact")

# Reusable theme
my_theme <- dt2_theme("clean", compact = TRUE)
dt2(iris, theme = my_theme)

# Override a preset
dt2(iris, theme = "minimal", striped = TRUE)

# CSS class override (power users)
dt2(iris, class = "table table-bordered table-dark")

# DataTables options (separate from styling)
dt2(iris, options = list(pageLength = 5, searching = FALSE))

# Disable responsive (fixed-width columns)
dt2(iris, responsive = FALSE)

# Everything composes
dt2(mtcars,
  theme = "clean",
  compact = TRUE,
  options = list(pageLength = 25))

# Buttons
dt2(mtcars, options = list(
  buttons = list("copy", "csv", "excel"),
  layout = list(topEnd = "buttons")
```

```
))

# Custom button style
dt2(mtcars,
    button_class = "btn btn-sm btn-primary",
    options = list(
      buttons = list("copy", "csv", "excel"),
      layout = list(topEnd = "buttons")
    )
))
```

---

`dt2_bind_server`*Bind a DataTables v2 server-side endpoint to a widget id*

---

### Description

Bind a DataTables v2 server-side endpoint to a widget id

### Usage

```
dt2_bind_server(
  id,
  data,
  session = shiny::getDefaultReactiveDomain(),
  handler = NULL
)
```

### Arguments

<code>id</code>	Output id of the widget (e.g., "tbl").
<code>data</code>	A data.frame with the source data.
<code>session</code>	Shiny session (default: current).
<code>handler</code>	Optional custom handler function(data, req) -> list(...).

### Value

No return value, called for side effects. Registers a Shiny observer on `session` that responds to client-side server-processing requests for the given widget id.

---

dt2_buttons	<i>Configure DataTables Buttons and (optionally) move them to a custom container</i>
-------------	--

---

### Description

Configure DataTables Buttons and (optionally) move them to a custom container

### Usage

```
dt2_buttons(
  options = list(),
  buttons = c("copyHtml5", "csvHtml5", "excelHtml5", "pdfHtml5", "print"),
  target = NULL
)
```

### Arguments

options	A DT2 options list you are building.
buttons	Character vector with button names (e.g. "copyHtml5", "csvHtml5", "excelHtml5", "pdfHtml5", "print"). You can also pass a list with full button objects.
target	Optional CSS selector (e.g. "#btn-slot" or ".my-toolbar") to receive the buttons container. If provided, DT2 will move the rendered buttons to that container after init.

### Details

Requires the **Buttons** extension. For CSV/Excel/PDF you also need **JSZip** and **pdfMake** (incl. vfs\_fonts).

### Value

The modified options list.

---

dt2_check_updates	<i>Check for DataTables library updates</i>
-------------------	---

---

### Description

Queries the npm registry to compare installed library versions against the latest available versions. Version constraints are enforced to prevent incompatible major version upgrades (e.g. jQuery 3.x will not jump to 4.x).

### Usage

```
dt2_check_updates(quiet = FALSE)
```

**Arguments**

`quiet` Logical. If TRUE, returns the result invisibly without printing. Default FALSE.

**Value**

A data.frame (invisibly) with columns: `library`, `installed`, `latest`, `latest_ok`, `constraint`, `status`.

Status values:

"ok" Library is up to date.

"UPDATE" A compatible update is available.

"PINNED" A new major version exists, but is blocked by the version constraint. The library is up to date within its allowed range.

"error" Lookup failed (check your internet connection).

**Examples**

```
dt2_check_updates()

# programmatic use
updates <- dt2_check_updates(quiet = TRUE)
updates[updates$status == "UPDATE", ]
```

---

`dt2_cols_align` *Column align (Bootstrap 5 classes)*

---

**Description**

Column align (Bootstrap 5 classes)

**Usage**

```
dt2_cols_align(options = list(), cols, align = c("left", "center", "right"))
```

**Arguments**

`options` Options list.

`cols` Names or 1-based indices.

`align` "left","center","right".

**Value**

Updated options.

---

dt2_cols_escape	<i>Escape/unescape columns content</i>
-----------------	--

---

**Description**

Escape/unescape columns content

**Usage**

```
dt2_cols_escape(options = list(), cols, escape = TRUE)
```

**Arguments**

options	Options list.
cols	Names or indices.
escape	If FALSE, tells DT to trust HTML (use with care).

**Value**

Updated options.

---

dt2_cols_hide	<i>Hide columns</i>
---------------	---------------------

---

**Description**

Hide columns

**Usage**

```
dt2_cols_hide(options = list(), cols)
```

**Arguments**

options	Options list.
cols	Names or 1-based indices.

**Value**

Updated options.

---

dt2_cols_html	<i>Allow raw HTML rendering via columns.render</i>
---------------	--

---

**Description**

Mark columns to render raw HTML using a JS render function.

**Usage**

```
dt2_cols_html(options = list(), cols, js_render)
```

**Arguments**

options	Options list.
cols	Names or 1-based indices.
js_render	JS function (via <a href="#">htmlwidgets::JS</a> ) with signature (data, type, row, meta) returning a string of HTML when type == "display".

**Value**

Updated options.

---

dt2_cols_render_js	<i>Attach a raw JS render function to columns</i>
--------------------	---

---

**Description**

Provide a custom JS renderer for one or more columns. Use this when you need fine control over columns.render, including returning different outputs based on type (display/sort/filter/type).

**Usage**

```
dt2_cols_render_js(options = list(), col_specs, js_render)
```

**Arguments**

options	List returned, with columnDefs appended.
col_specs	Column names or indices.
js_render	A <a href="#">htmlwidgets::JS()</a> function of signature function(data, type, row, meta) { ... }.

**Value**

Modified options.

**See Also**

<https://datatables.net/reference/option/columns.render>

---

dt2\_cols\_render\_orthogonal

*Orthogonal render (display/sort/filter/type) per column*

---

**Description**

Supply different renderers for each orthogonal data request. Pass an object with keys `display`, `sort`, `filter`, `type` (all optional). Each value must be a JS function.

**Usage**

```
dt2_cols_render_orthogonal(
  options = list(),
  col_specs,
  display = NULL,
  sort = NULL,
  filter = NULL,
  type = NULL
)
```

**Arguments**

<code>options</code>	Options list to modify.
<code>col_specs</code>	Column names or indices.
<code>display</code>	Optional JS renderer for UI display.
<code>sort</code>	Optional JS renderer used for ordering.
<code>filter</code>	Optional JS renderer used for searching.
<code>type</code>	Optional JS renderer used for type detection.

**Value**

Modified options.

**Examples**

```
opts <- list(columns = names(iris))
opts <- dt2_cols_render_orthogonal(
  opts, "Sepal.Length",
  display = htmlwidgets::JS("function(d,t,row,meta){ return d + ' cm'; }"),
  sort = htmlwidgets::JS("function(d,t,row,meta){ return parseFloat(d); }")
)
```

---

dt2_cols_width	<i>Column widths (CSS)</i>
----------------	----------------------------

---

**Description**

Column widths (CSS)

**Usage**

```
dt2_cols_width(options = list(), map_named)
```

**Arguments**

options	Options list.
map_named	Named character vector: c(Col="120px", ...).

**Value**

Updated options.

---

dt2_col_button	<i>Action button per row</i>
----------------	------------------------------

---

**Description**

Action button per row

**Usage**

```
dt2_col_button(
  options = list(),
  col,
  label = "Action",
  input_id_prefix = "row_btn_"
)
```

**Arguments**

options	Options list.
col	Target column (name or 1-based index).
label	Button label.
input_id_prefix	Prefix for element ids (e.g., "row_btn_").

**Value**

Updated options.

---

dt2\_col\_checkbox      *Checkbox input per row*

---

### Description

Checkbox input per row

### Usage

```
dt2_col_checkbox(
  options = list(),
  col,
  input_id_prefix = "row_chk_",
  value_col = NULL
)
```

### Arguments

options	Options list.
col	Target column (name or 1-based index).
input_id_prefix	Prefix for element ids (e.g., "row_chk_").
value_col	Optional boolean column to define initial state.

### Value

Updated options.

---

dt2\_col\_template      *Simple HTML template per column (replace {{VAL}})*

---

### Description

Simple HTML template per column (replace {{VAL}})

### Usage

```
dt2_col_template(options = list(), col, template)
```

### Arguments

options	Options list.
col	Name or index of target column.
template	HTML string with {{VAL}} placeholder.

**Value**

Updated options.

---

dt2_draw	<i>Redraw the table (proxy)</i>
----------	---------------------------------

---

**Description**

Redraw the table (proxy)

**Usage**

```
dt2_draw(proxy)
```

**Arguments**

proxy      [dt2\\_proxy\(\)](#).

**Value**

The proxy object, returned invisibly.

---

dt2_extensions	<i>List available DataTables extensions</i>
----------------	---

---

**Description**

List available DataTables extensions

**Usage**

```
dt2_extensions()
```

**Value**

A data.frame with columns name, version, dir.

**Examples**

```
dt2_extensions()
```



---

dt2_format_number	<i>Format numeric columns (DataTables renderer: number)</i>
-------------------	---

---

## Description

Add a number renderer to one or more columns using DataTables' built-in `DataTable.render.number`.

## Usage

```
dt2_format_number(  
  options = list(),  
  col_specs,  
  thousands = NULL,  
  decimal = NULL,  
  digits = 0,  
  prefix = "",  
  prefix_right = ""  
)
```

## Arguments

<code>options</code>	List of options (returned, with <code>columnDefs</code> updated).
<code>col_specs</code>	Column names or 1-based indices to format.
<code>thousands</code>	Thousands separator (character or NULL for auto).
<code>decimal</code>	Decimal separator (character or NULL for auto).
<code>digits</code>	Number of decimal places.
<code>prefix, prefix_right</code>	String to prepend/append (e.g., currency symbol).

## Value

Modified options.

## Examples

```
opts <- list(columns = names(iris))  
opts <- dt2_format_number(opts, "Sepal.Length", thousands = ".", decimal = ",",  
  digits = 2, prefix = "", prefix_right = "")
```

---

 dt2\_format\_number\_abbrev

*Abbreviate large numbers with fixed decimals (k / M / B)*


---

### Description

Adds a `columns.render` function that displays numbers as 1.2k, 3.4M, etc. This renderer **lets you control** the number of decimal places via `digits`. Use this when you want a fixed, compact style independent of locale rules.

### Usage

```
dt2_format_number_abbrev(
  options = list(),
  col_specs,
  digits = 1,
  locale = NULL
)
```

### Arguments

<code>options</code>	A DataTables options list to be modified.
<code>col_specs</code>	Column names or 1-based indices to format.
<code>digits</code>	Integer, decimal places for the abbreviated display (default 1).
<code>locale</code>	Optional BCP-47 locale string (e.g. "pt-BR"). If provided, the non-abbreviated part uses <code>toLocaleString(locale)</code> for grouping.

### Value

The modified options list.

### Examples

```
opts <- list(columns = names(mtcars))
opts <- dt2_format_number_abbrev(opts, c("hp", "qsec"), digits = 1, locale = "pt-BR")
```

---

 dt2\_format\_time\_format

*Format a date/time using DataTables' datetime renderer, with locale*


---

### Description

Format a date/time using DataTables' datetime renderer, with locale

**Usage**

```
dt2_format_time_format(
  options = list(),
  col_specs,
  from = NULL,
  to = "L",
  locale = "pt-br"
)
```

**Arguments**

options	Options list (returned modified).
col_specs	Column names or indices to format.
from	Input format (e.g. 'YYYY-MM-DDTHH:mm:ssZ' or NULL for ISO).
to	Output format (e.g. 'L LTS'). See moment.js docs.
locale	Locale string, e.g. 'pt-br'.

**Value**

Modified options.

---

dt2\_format\_time\_relative

*Relative time using moment.fromNow(), with locale*

---

**Description**

Relative time using moment.fromNow(), with locale

**Usage**

```
dt2_format_time_relative(options = list(), col_specs, locale = "pt-br")
```

**Arguments**

options	list of options (returned updated)
col_specs	names or indices to format
locale	e.g. "pt-br" (requires moment-with-locales)

**Value**

The modified options list with an updated columnDefs entry.

---

dt2_language	<i>Language helper (either list or JSON url)</i>
--------------	--

---

**Description**

Language helper (either list or JSON url)

**Usage**

```
dt2_language(options = list(), lang_list = NULL, lang_url = NULL)
```

**Arguments**

options	Options list.
lang_list	Named list of language keys.
lang_url	URL to a JSON translation file.

**Value**

Updated options.

---

dt2_length_menu	<i>Length menu helper</i>
-----------------	---------------------------

---

**Description**

Configures the entries-per-page dropdown.

**Usage**

```
dt2_length_menu(options = list(), values = c(10, 25, 50, -1), labels = NULL)
```

**Arguments**

options	Options list.
values	Numeric vector of page lengths (e.g., c(10, 25, 50, -1)). Use -1 for "show all".
labels	Optional character vector of labels. If NULL, numeric values are used as-is and -1 becomes "All" automatically via language.lengthLabels.

**Value**

Updated options.

**Examples**

```
opts <- dt2_length_menu(values = c(5, 10, 25, -1))
dt2(iris, options = opts)
```

```
opts <- dt2_length_menu(values = c(10, 50, 100), labels = c("10", "50", "100"))
dt2(iris, options = opts)
```

---

dt2_order	<i>Define initial ordering (option order)</i>
-----------	---

---

**Description**

Define initial ordering (option order)

**Usage**

```
dt2_order(options = list(), ...)
```

**Arguments**

options	Options list.
...	Vectors like <code>c(col, "asc"/"desc")</code> . col may be name or 1-based index.

**Value**

Updated options.

---

dt2_output	<i>Shiny output for DT2</i>
------------	-----------------------------

---

**Description**

Place a DT2 table in a Shiny UI.

**Usage**

```
dt2_output(outputId, width = "100%", height = "auto")
```

**Arguments**

outputId	Output ID (must match the <code>render_dt2()</code> call in server).
width, height	CSS dimensions.

**Value**

An `htmlwidgets` Shiny output (HTML container) suitable for inclusion in a Shiny UI definition.

---

dt2_proxy	<i>Create a proxy for a DT2 table</i>
-----------	---------------------------------------

---

**Description**

Create a proxy for a DT2 table

**Usage**

```
dt2_proxy(id, session = shiny::getDefaultReactiveDomain())
```

**Arguments**

id	Widget id used in <code>dt2_output()</code> .
session	Shiny session.

**Value**

A "DT2Proxy" object.

---

dt2_proxy_order	<i>Order the table (proxy)</i>
-----------------	--------------------------------

---

**Description**

Order the table (proxy)

**Usage**

```
dt2_proxy_order(proxy, ..., columns = NULL)
```

**Arguments**

proxy	<code>dt2_proxy()</code> .
...	Vectors <code>c(col, "asc"/"desc")</code> . If you pass columns, names will be resolved to indices.
columns	Optional character vector of column names to resolve names to indices.

**Value**

The proxy object, returned invisibly.

---

dt2_proxy_page	<i>Page navigation (proxy)</i>
----------------	--------------------------------

---

**Description**

Page navigation (proxy)

**Usage**

```
dt2_proxy_page(  
  proxy,  
  page = c("first", "previous", "next", "last", "number"),  
  number = NULL  
)
```

**Arguments**

proxy	A <a href="#">dt2_proxy()</a> object.
page	Navigation action: "first", "previous", "next", "last", or "number" (go to a specific page).
number	Page number (1-based). Only used when page = "number".

**Value**

The proxy, invisibly.

---

dt2_proxy_search	<i>Global search (proxy)</i>
------------------	------------------------------

---

**Description**

Global search (proxy)

**Usage**

```
dt2_proxy_search(  
  proxy,  
  value,  
  regex = FALSE,  
  smart = TRUE,  
  caseInsensitive = TRUE  
)
```

**Arguments**

proxy	A <code>dt2_proxy()</code> object.
value	Search string.
regex	Logical; treat value as a regular expression? Default: FALSE.
smart	Logical; use DataTables smart search? Default: TRUE.
caseInsensitive	Logical; case-insensitive search? Default: TRUE.

**Value**

The proxy, invisibly.

---

`dt2_register_renderer` *Register a named JS renderer*

---

**Description**

Register a named JS renderer

**Usage**

```
dt2_register_renderer(name, js)
```

**Arguments**

name	Unique name (character scalar).
js	A <code>htmlwidgets::JS()</code> function or a JSON helper expression.

**Value**

Invisibly, the name.

---

`dt2_replace_data` *Replace all data in the table (proxy)*

---

**Description**

Replace all data in the table (proxy)

**Usage**

```
dt2_replace_data(proxy, data)
```

**Arguments**

proxy	<a href="#">dt2_proxy()</a> .
data	New data.frame (will be serialized).

**Value**

The proxy object, returned invisibly.

---

dt2_search_global	<i>Set global search (option search)</i>
-------------------	--

---

**Description**

Set global search (option search)

**Usage**

```
dt2_search_global(  
  options = list(),  
  value,  
  regex = FALSE,  
  smart = TRUE,  
  caseInsensitive = TRUE  
)
```

**Arguments**

options	Options list.
value	Text.
regex, smart, caseInsensitive	Search flags.

**Value**

Updated options.

---

dt2_select_rows	<i>Select rows (proxy; Select extension)</i>
-----------------	--

---

**Description**

Select rows (proxy; Select extension)

**Usage**

```
dt2_select_rows(proxy, indexes, reset = TRUE)
```

**Arguments**

proxy	<a href="#">dt2_proxy()</a> .
indexes	1-based row indices.
reset	If TRUE, clear selection before selecting.

**Value**

The proxy object, returned invisibly.

---

dt2_ssp_handler	<i>Default server-side handler (filter/order/page)</i>
-----------------	--

---

**Description**

Default server-side handler (filter/order/page)

**Usage**

```
dt2_ssp_handler(names)
```

**Arguments**

names	character() column names in display order.
-------	--

**Value**

```
function(data, req) -> list(draw, recordsTotal, recordsFiltered, data)
```

---

dt2_state	<i>Access the current state snapshot of a DT2 table</i>
-----------	---

---

**Description**

Returns a list with reason, order, search, page, selected, state reflecting the current client-side table state.

**Usage**

```
dt2_state(input, id)
```

**Arguments**

input	Shiny input object.
id	Widget ID.

**Value**

A list with the current table state.

---

dt2_theme	<i>Create a reusable DT2 theme</i>
-----------	------------------------------------

---

**Description**

Creates a theme object that can be passed to `dt2()` via the theme parameter. Useful when you want the same look across many tables.

For quick one-off styling, you can also pass arguments directly to `dt2()` (e.g., `dt2(iris, striped = FALSE)`).

**Usage**

```
dt2_theme(  
  preset = "default",  
  striped = NULL,  
  hover = NULL,  
  compact = NULL,  
  font_scale = NULL,  
  style = NULL,  
  button_class = NULL  
)
```

**Arguments**

preset	A named preset to start from: "default", "clean", "minimal", or "compact". Remaining arguments override the preset.
striped	Logical; alternate row colours.
hover	Logical; highlight rows on hover.
compact	Logical; reduce cell padding.
font_scale	Numeric; font-size multiplier (e.g., 0.85 = 85%).
style	Styling framework: "bootstrap5" (default) or "core" (plain DataTables).
button_class	CSS class string for Buttons extension buttons. Default: "btn btn-sm btn-outline-secondary". See Bootstrap 5 button classes for options (e.g., "btn btn-sm btn-primary").

**Value**

A dt2\_theme object (a named list).

**Examples**

```
# Create and reuse
my_theme <- dt2_theme("clean", compact = TRUE)
dt2(iris, theme = my_theme)
dt2(mtcars, theme = my_theme)

# Custom button style
dt2_theme("default", button_class = "btn btn-sm btn-primary")

# Presets
dt2_theme("minimal")
dt2_theme("compact")
```

---

dt2\_update\_libs

*Update DataTables JS/CSS libraries (developer tool)*


---

**Description**

Checks for updates (respecting version constraints), patches version numbers in the source files, and optionally runs tools/get-dt2-libs.sh to download the new files.

**Usage**

```
dt2_update_libs(pkg_dir = ".", download = TRUE, dry_run = FALSE)
```

## Arguments

pkg_dir	Path to the DT2 source root (the directory containing DESCRIPTION). Defaults to the current working directory.
download	Logical. If TRUE, runs the shell script after patching version numbers. Default TRUE.
dry_run	Logical. If TRUE, shows what would change without modifying any files. Default FALSE.

## Details

This function only works from the **package source tree** (i.e. during development). It will refuse to run from an installed package.

The workflow is:

1. Query npm for the latest compatible version of every library.
2. Patch tools/get-dt2-libs.sh (version variables).
3. Patch R/dt2\_extensions.R (extension registry).
4. Patch R/dt2\_check\_updates.R (core lib versions).
5. Patch R/dt2\_deps.R (DataTables core version).
6. Run bash tools/get-dt2-libs.sh to download the files.

Version constraints prevent incompatible upgrades:

- jQuery is pinned to 3.x (DataTables 2 requires jQuery 3).
- pdfmake is pinned to 0.2.x (0.3.x has breaking changes and is not available on cdnjs).
- Bootstrap is pinned to 5.x.

Libraries marked as "PINNED" are skipped. Only "UPDATE" items are applied.

## Value

Invisibly, a data.frame with the update results.

## Examples

```
## Not run:
# Developer-only tool: requires the DT2 package source tree
# (DESCRIPTION, tools/get-dt2-libs.sh, R/dt2_extensions.R, ...).
# It cannot run from an installed package, so it is not executable
# in CRAN check or from a regular user session.

# from the DT2 source root:
dt2_update_libs()

# preview changes without modifying anything:
dt2_update_libs(dry_run = TRUE)

## End(Not run)
```

---

dt2\_use\_buttons      *Enable Buttons (extension) and define buttons*

---

### Description

Uses the modern DataTables 2.x layout API (not the deprecated dom).

### Usage

```
dt2_use_buttons(
  options = list(),
  buttons = c("copy", "csv", "excel", "print"),
  position = "topEnd",
  button_class = NULL
)
```

### Arguments

options	Options list.
buttons	Vector of button ids (e.g., c("copy","csv","excel","print","colvis")).
position	Where to place buttons in the layout. One of "topEnd" (default), "topStart", "bottomEnd", "bottomStart".
button_class	CSS class for buttons (e.g., "btn btn-sm btn-primary"). If NULL, uses the theme default ("btn btn-sm btn-outline-secondary"). Applied per-button via className.

### Value

Updated options.

---

dt2\_use\_renderer      *Use a named JS renderer on columns*

---

### Description

Use a named JS renderer on columns

### Usage

```
dt2_use_renderer(options = list(), col_specs, name)
```

### Arguments

options	Options list (returned modified).
col_specs	Column names or indices.
name	Name used in dt2_register_renderer().

**Value**

Modified options.

---

observe_dt2_events	<i>Observe DataTables events published by dt2.js</i>
--------------------	--

---

**Description**

Listen for table events (init, draw, order, search, page, select, deselect).

**Usage**

```
observe_dt2_events(input, id, handler)
```

**Arguments**

input	Shiny input object.
id	Widget ID.
handler	Function with signature (event, type, indexes, rowData).

**Value**

No return value, called for side effects. Sets up a Shiny observer that calls handler whenever the table emits an event.

---

render_dt2	<i>Shiny render function for DT2</i>
------------	--------------------------------------

---

**Description**

Render a DT2 table in a Shiny server function.

**Usage**

```
render_dt2(expr, env = parent.frame(), quoted = FALSE)
```

**Arguments**

expr	Expression returning a <code>dt2()</code> widget.
env, quoted	Standard shinyRenderWidget arguments.

**Value**

A Shiny render function (closure produced by `htmlwidgets::shinyRenderWidget()`) that emits a DT2 widget.

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