

# Package ‘whapi’

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**Title** R Client for 'whapi.cloud'

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**Description** Provides an 'R' interface to the 'Whapi' 'API' <<https://whapi.cloud>>, enabling sending and receiving 'WhatsApp' messages directly from 'R'. Functions include sending text, images, documents, stickers, geographic locations, and interactive messages (buttons and lists). Also includes 'webhook' parsing utilities and channel health checks.

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**URL** <https://github.com/StrategicProjects/whapi/>

**BugReports** <https://github.com/StrategicProjects/whapi/issues/>

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## Contents

whapi_build_servicos_sections . . . . .	3
whapi_check_health . . . . .	4
whapi_clip_text . . . . .	5
whapi_coerce_buttons_base . . . . .	6
whapi_coerce_buttons_mixed . . . . .	7
whapi_coerce_buttons_quick . . . . .	8
whapi_common_blocks . . . . .	9
whapi_date_diff_days . . . . .	10
whapi_extract_common_fields . . . . .	11
whapi_flatten_webhook . . . . .	12
whapi_fmt_date . . . . .	13
whapi_get_contact_profile . . . . .	13
whapi_get_message . . . . .	15
whapi_log_plumber_req . . . . .	16
whapi_log_pretty_json . . . . .	17
whapi_make_unique . . . . .	18
whapi_mark_message_read . . . . .	19
whapi_match_digits . . . . .	20
whapi_normalize_to . . . . .	20
whapi_only_digits . . . . .	21
whapi_parse_body . . . . .	22
whapi_parse_command . . . . .	22
whapi_perform_request . . . . .	23
whapi_react_to_message . . . . .	24
whapi_redact . . . . .	25
whapi_send_document . . . . .	25
whapi_send_image . . . . .	27
whapi_send_list . . . . .	28
whapi_send_location . . . . .	29
whapi_send_mixed_actions . . . . .	30
whapi_send_quick_reply . . . . .	32
whapi_send_sticker . . . . .	33
whapi_send_text . . . . .	34
whapi_slugify . . . . .	35
whapi_to_ascii_lower . . . . .	36
whapi_to_posixct . . . . .	37
whapi_trunc . . . . .	38
whapi_validate_list_sections . . . . .	39

## Index

41

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whapi\_build\_servicos\_sections

*Build Whapi service sections from a tibble (with section column)*


---

## Description

Converts a tibble of services (with columns id, title, description, and section) into a nested list of **sections/rows** in the format expected by Whapi interactive messages.

## Usage

```
whapi_build_servicos_sections(tbl, section_order = NULL)
```

## Arguments

tbl	A tibble/data.frame containing at least: <ul style="list-style-type: none"> <li>• section (chr): section name</li> <li>• id (chr): unique identifier (e.g., "ap1", "r2", "os3")</li> <li>• title (chr): display title (can include emoji)</li> <li>• descricao (chr): short description of the service</li> </ul>
section_order	Character vector defining desired order (and subset) of sections. If NULL, all sections are included in alphabetical order.

## Details

- If section\_order = NULL, all sections are included, ordered alphabetically.
- If section\_order is provided, it acts as both:
  - a **filter**: only sections listed will be included,
  - and an **order**: sections appear in the same order as in section\_order.

Within each section, rows are ordered by the numeric part of id (via readr::parse\_number(id)).

## Value

A list of sections, where each section is a list with:

- title: section title
- rows: a list of rows, each being a list with id, title, and description

## Examples

```
de_para_servicos <- tibble::tibble(
  section = c("Outros Servicos", "Renovacoes", "Anuencia Previa"),
  id      = c("os2", "r4", "ap1"),
  title   = c("Consulta Previa",
             "Renovacao de Consulta Previa",
             "Desmembramento"),
```

```

    descricao = c("Initial analysis...", "Renewal...", "Technical authorization...")
  )

  # All sections (alphabetical)
  whapi_build_servicos_sections(de_para_servicos)

  # Custom order and filter
  whapi_build_servicos_sections(
    de_para_servicos,
    section_order = c("Anuencia Previa", "Outros Servicos")
  )

```

---

whapi_check_health	<i>Check Whapi.Cloud channel health and status</i>
--------------------	--

---

## Description

Calls GET /health to retrieve channel status, versions, uptime, device, IP, and user info.

## Usage

```

whapi_check_health(
  wakeup = TRUE,
  channel_type = c("web", "mobile"),
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  timeout = 30,
  verbose = TRUE
)

```

## Arguments

wakeup	Logical(1). If TRUE, adds wakeup=true query param. Default: TRUE.
channel_type	Character(1). Channel type, either "web" or "mobile". Default: "web".
token	Character(1). Bearer token. Defaults to env var WHAPI_TOKEN.
timeout	Numeric(1). Request timeout (s). Default 30.
verbose	Logical(1). Print CLI logs? Default TRUE.

## Value

A tibble with key health information:

- channel\_id, uptime, version, core\_version, api\_version,
- device\_id, ip,
- status\_code, status\_text,
- user\_id, user\_name, user\_pushname, is\_business,
- profile\_pic, profile\_pic\_full, user\_status, plus the raw response in resp.

### Examples

```
## Not run:
Sys.setenv(WHAPI_TOKEN = "your_token_here")
# Default check (wakeup=TRUE, channel_type="web")
whapi_check_health()

# Check with channel_type = "mobile"
whapi_check_health(channel_type = "mobile")

## End(Not run)
```

---

whapi_clip_text	<i>Clip long text with ellipsis</i>
-----------------	-------------------------------------

---

### Description

Shortens text to a maximum width (character length). If the text is longer, it is truncated and an ellipsis (default "...") is appended.

### Usage

```
whapi_clip_text(x, width = 420, ellipsis = "...")
```

### Arguments

x	Character string to clip.
width	Maximum length of the output including ellipsis.
ellipsis	Character to indicate truncation.

### Value

A clipped string with ellipsis if needed.

### Examples

```
whapi_clip_text("This is a very long sentence that should be clipped.", width = 20)
#> "This is a very long..."
```

---

whapi\_coerce\_buttons\_base

*Coerce and normalize button specs for Whapi interactive messages*


---

## Description

Internal helper that converts a `data.frame/tibble` or list of button definitions into a normalized **list-of-lists**, applying a few rules:

- Accepts aliases `label / name` and maps them to `title`;
- Requires a non-empty `title`;
- Auto-generates `id` when missing using slugification plus uniqueness enforcement (e.g., "Buy Now" -> "buy\_now", duplicates become "buy\_now\_2", "buy\_now\_3", ...).

This is useful before building payloads for Whapi interactive endpoints (e.g., buttons, mixed actions, etc.).

## Usage

```
whapi_coerce_buttons_base(buttons, verbose = TRUE)
```

## Arguments

<code>buttons</code>	A <code>data.frame/tibble</code> with columns per button (e.g. <code>title</code> , <code>id</code> , etc.) <b>or</b> a list of named lists. Can be <code>NULL</code> (returns empty list).
<code>verbose</code>	Logical (default <code>TRUE</code> ). If <code>TRUE</code> , prints progress messages via <b>cli</b> (how many buttons, how many ids auto-generated, etc.).

## Value

A **list of named lists** (one per button), each guaranteed to have at least `title` (non-empty). If a button had no `id`, a slugified, unique `id` is created.

## See Also

```
whapi_slugify(), whapi_make_unique()
```

## Examples

```
# From tibble (title only -> ids auto-generated)
tibble::tribble(~title, "Buy Now", "Buy Now", "Learn More") |>
  whapi_coerce_buttons_base()

# From list (mix with/without id)
whapi_coerce_buttons_base(list(
  list(title = "Website", url = "https://example.com"),
  list(title = "Website") # will get an auto id too
))
```

---

whapi\_coerce\_buttons\_mixed

*Coerce and validate MIXED buttons (url / call / copy) for Whapi*


---

## Description

Internal helper that prepares **mixed action** buttons for Whapi interactive messages. It first normalizes input via [whapi\\_coerce\\_buttons\\_base\(\)](#) (accepts `data.frame/tibble` or `list`, maps aliases to `title`, auto-creates `id` with slug + uniqueness) and then validates each button according to its declared type:

- `url` -> requires fields: `title`, `id`, `url`
- `call` -> requires fields: `title`, `id`, `phone_number`
- `copy` -> requires fields: `title`, `id`, `copy_code`

Enforces WhatsApp constraints: **1 to 3** buttons per message.

## Usage

```
whapi_coerce_buttons_mixed(buttons, verbose = TRUE)
```

## Arguments

<code>buttons</code>	A <code>data.frame/tibble</code> (one row per button) or a list of named lists. <code>title</code> is required (or via alias), <code>id</code> is auto-generated when missing by <a href="#">whapi_coerce_buttons_base()</a> . Each button <b>must provide</b> a valid type among <code>{"url", "call", "copy"}</code> .
<code>verbose</code>	Logical (default <code>TRUE</code> ). If <code>TRUE</code> , prints progress messages via <b>cli</b> .

## Value

A list-of-lists of buttons, each validated to contain the fields required for its type.

## See Also

[whapi\\_coerce\\_buttons\\_base\(\)](#) for normalization; [whapi\\_coerce\\_buttons\\_quick\(\)](#) for quick-reply buttons.

## Examples

```
# Example with a tibble:
tibble::tribble(
  ~title,      ~type, ~url, ~phone_number,
  "Website",   "url",  "https://example.com", NA,
  "Call Support", "call", NA,  "5581999999999"
) |>
  whapi_coerce_buttons_base() |>
  whapi_coerce_buttons_mixed()
```

```
# Example with a list:
whapi_coerce_buttons_mixed(list(
  list(type="url", title="Website", url="https://example.com"),
  list(type="call", title="Call us", phone_number="5581999999999"),
  list(type="copy", title="Copy OTP", copy_code="123456")
))
```

---

whapi\_coerce\_buttons\_quick

*Coerce and validate QUICK REPLY buttons for Whapi*

---

## Description

Internal helper that prepares **quick reply** buttons for Whapi interactive messages. It relies on [whapi\\_coerce\\_buttons\\_base\(\)](#) to normalize input (accept data.frame/list, map aliases label/name -> title, auto-generate id via slug + uniqueness) and then:

- Enforces type = "quick\_reply" for all buttons;
- Requires the fields title and id;
- Ensures the WhatsApp constraint of **1 to 3** buttons.

## Usage

```
whapi_coerce_buttons_quick(buttons, verbose = TRUE)
```

## Arguments

buttons	A data.frame/tibble (one row per button) or a list of named lists. title is required (or via alias), id will be auto-created when missing by <a href="#">whapi_coerce_buttons_base()</a> .
verbose	Logical (default TRUE). If TRUE, prints progress messages via <b>cli</b> .

## Value

A list-of-lists of buttons, each including at least title, id, and type = "quick\_reply".

## See Also

[whapi\\_coerce\\_buttons\\_base\(\)](#) for normalization; other coercers for mixed buttons (url/call/copy).

## Examples

```
tibble::tribble(~title, "YES", "NO") |>
  whapi_coerce_buttons_base() |>
  whapi_coerce_buttons_quick()
```



---

whapi_common_blocks	<i>Build common message blocks for Whapi interactive messages</i>
---------------------	---

---

## Description

Internal helper that constructs the standard structure shared by Whapi interactive messages (button, list, mixed actions, etc.).

It automatically normalizes the recipient (to) using [whapi\\_normalize\\_to\(\)](#), and creates header, body, and footer blocks only if the corresponding text is provided.

## Usage

```
whapi_common_blocks(to, body_text, header_text = NULL, footer_text = NULL)
```

## Arguments

to	Character(1). Recipient phone number in international format (digits only, no +), or a group/channel id.
body_text	Character(1). Main text of the interactive message body.
header_text	Character(1), optional. Optional header text.
footer_text	Character(1), optional. Optional footer text.

## Details

Many Whapi interactive endpoints (e.g., `messages/interactive`) require the same basic structure:

- **to**: target number or chat id;
- **header**: optional text shown above the body;
- **body**: main message text (required);
- **footer**: optional small text shown below the body.

This helper ensures consistency and avoids repeating boilerplate code when building different interactive message payloads.

## Value

A named list ready to be merged into a Whapi interactive message payload, containing elements: to, header (if provided), body, and footer (if provided).

## See Also

[whapi\\_send\\_quick\\_reply\(\)](#), [whapi\\_send\\_list\(\)](#), [whapi\\_send\\_mixed\\_actions\(\)](#)

**Examples**

```
## Not run:
# Minimal body only

whapi_common_blocks("5581999999999", body_text = "Choose an option below")

# With header and footer
whapi_common_blocks(
  to = "5581999999999",
  body_text = "Do you confirm?",
  header_text = "Booking Confirmation",
  footer_text = "Reply now"
)

## End(Not run)
```

---

whapi\_date\_diff\_days    *Days between two dates*

---

**Description**

Calculates the difference in days between two dates (end - start). Returns NA if the start date is missing.

**Usage**

```
whapi_date_diff_days(start, end)
```

**Arguments**

start	Start date (Date or coercible).
end	End date (Date or coercible).

**Value**

Integer number of days, or NA if start is missing.

**Examples**

```
whapi_date_diff_days(Sys.Date() - 10, Sys.Date())
#> 10
```

---

whapi\_extract\_common\_fields

*Extract common fields from Whapi API responses*


---

## Description

Helper function to standardize parsing of Whapi message responses. Whapi responses typically return a JSON object with a top-level element sent and a nested message object containing details such as id, status, timestamp, etc. This function consolidates those fields into a flat tibble, making it easier to work with message metadata in R.

## Usage

```
whapi_extract_common_fields(out, fallback_to)
```

## Arguments

out	A list (parsed JSON) as returned by <code>httr2::resp_body_json()</code> from a Whapi request.
fallback_to	Character(1). A fallback chat id (usually the to argument originally passed to the API) used when the response does not contain an explicit chat_id or to.

## Details

The function safely looks up fields in multiple possible locations, since Whapi responses are not always consistent across endpoints:

- **id**: prefers out\$message\$id, then out\$id, then out\$message\_id;
- **status**: out\$message\$status or out\$status;
- **timestamp**: out\$message\$timestamp or out\$timestamp;
- **chat\_id**: from out\$message\$chat\_id, out\$message\$to, or fallback\_to;
- **type**: out\$message\$type or out\$type;
- **sent**: top-level out\$sent (boolean, TRUE if successfully sent).

The timestamp is returned both raw (numeric, seconds since epoch) and as a parsed POSIXct column (timestamp\_dt, UTC).

## Value

A tibble with one row and the following columns:

- id: message id;
- to: recipient chat id (phone or group);
- status: sending status (e.g., "pending", "sent");
- timestamp: numeric epoch timestamp (seconds);

- timestamp\_dt: POSIXct parsed timestamp in UTC;
- type: message type (e.g., "text", "image", "location");
- sent: logical/boolean (TRUE if sent flag present);
- resp: the full raw response list for inspection.

### See Also

Used internally in wrappers like `whapi_send_text()`, `whapi_send_image()`, `whapi_send_document()`, `whapi_send_location()`.

### Examples

```
## Not run:
# Suppose `resp` is the parsed JSON returned from Whapi:
out <- list(
  sent = TRUE,
  message = list(
    id = "abc123",
    chat_id = "5581999999999@es.whatsapp.net",
    timestamp = 1756426418,
    type = "location",
    status = "pending"
  )
)

whapi_extract_common_fields(out, fallback_to = "5581999999999")

## End(Not run)
```

---

`whapi_flatten_webhook` *Flatten Whapi webhook payload into tidy rows for persistence (robust)*

---

### Description

Flatten Whapi webhook payload into tidy rows for persistence (robust)

### Usage

```
whapi_flatten_webhook(payload, verbose = TRUE)
```

### Arguments

payload	list parsed from JSON (e.g. plumber req\$body)
verbose	logical, print logs with cli?

### Value

tibble with normalized fields

---

whapi_fmt_date	<i>Safe date formatting</i>
----------------	-----------------------------

---

### Description

Formats a date safely, returning a fallback value (na) when the input is NULL or NA.

### Usage

```
whapi_fmt_date(x, fmt = "%d/%m/%Y", na = "-")
```

### Arguments

x	Date or coercible to Date.
fmt	Date format passed to <code>base::format()</code> .
na	Fallback string if the input is missing.

### Value

A formatted date string, or the na placeholder if missing.

### Examples

```
whapi_fmt_date(Sys.Date())  
#> "31/08/2025"  
whapi_fmt_date(NA)  
#> "-"
```

---

whapi_get_contact_profile	<i>Get WhatsApp contact profile(s) via Whapi.Cloud</i>
---------------------------	--

---

### Description

Fetches profile information for one or more contacts using GET /contacts/{ContactID}/profile and returns a tidy tibble. This version assumes the response body contains:

- name (string, user name),
- about (string, user info in About section),
- icon (string, profile preview icon URL),
- icon\_full (string, full avatar URL).

**Usage**

```
whapi_get_contact_profile(
  contacts,
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  full = TRUE,
  timeout = 30,
  verbose = TRUE
)
```

**Arguments**

contacts	Character vector. Phones in E.164 digits (no "+") or chat IDs.
token	Bearer token. Defaults to env var WHAPI_TOKEN.
full	Logical. If TRUE, add <code>_full=true</code> query param. Default TRUE.
timeout	Numeric. Request timeout (seconds). Default 30.
verbose	Logical. Print progress with <b>cli</b> ? Default TRUE.

**Details**

- Each `contacts` element may be a phone number (free text) or a JID (e.g., "1203...@g.us"). Phone numbers are normalized via [whapi\\_normalize\\_to\(\)](#) (12 digits total); JIDs are kept as-is.
- When `full = TRUE`, `_full=true` is added to the querystring to request higher-resolution avatars (if supported).

**Value**

A tibble with one row per contact:

- `contact_id` (input id or JID as queried),
- `name`, `about`, `icon`, `icon_full`,
- `resp` with the raw response (list).

**Examples**

```
## Not run:

Sys.setenv(WHAPI_TOKEN = "your_token_here")
# Single:
whapi_get_contact_profile("5581999999999")

# Mixed (number + group JID):
whapi_get_contact_profile(c("5581999999999", "1203630xxxxx@g.us"))

## End(Not run)
```

---

whapi_get_message	<i>Get a WhatsApp message by ID (Whapi.Cloud)</i>
-------------------	---

---

## Description

Get a WhatsApp message by ID (Whapi.Cloud)

## Usage

```
whapi_get_message(  
    message_id,  
    resync = FALSE,  
    token = Sys.getenv("WHAPE_TOKEN", unset = ""),  
    timeout = 30,  
    verbose = TRUE  
)
```

## Arguments

message_id	Character(1). The message ID to fetch.
resync	Logical(1). Whether to resync from the device. Default FALSE.
token	Bearer token (default from WHAPE_TOKEN env var).
timeout	Timeout in seconds. Default 30.
verbose	Print CLI progress? Default TRUE.

## Value

Tibble with fields: id, type, subtype, chat\_id, chat\_name, from, from\_name, from\_me, source, timestamp, timestamp\_dt, device\_id, status, and raw resp.

## Examples

```
## Not run:  
# Needs API Key  
whapi_get_message("PsobWy36679._7w-wKmB9tMeGQ")  
  
## End(Not run)
```

---

whapi\_log\_plumber\_req *Log details of a Plumber request object using the cli package*


---

## Description

Prints a structured summary of a req object (Plumber request) to the console, with colored and formatted output using the **cli** package. This helper is useful for debugging APIs, inspecting request metadata, and logging incoming payloads in a readable way.

The function logs:

- HTTP method, path, query string, host, client IP/port, content type, and length.
- Parsed arguments: argsQuery, argsBody, args.
- Headers (with sensitive values redacted).
- Cookies (always redacted).
- Parsed request body (req\$body or req\$postBody).

## Usage

```
whapi_log_plumber_req(
  req,
  show_headers = TRUE,
  show_cookies = TRUE,
  show_body = TRUE,
  max_chars = 2000L
)
```

## Arguments

req	A Plumber request object, usually passed automatically inside an endpoint. Must contain fields such as REQUEST_METHOD, PATH_INFO, HTTP_HOST, etc.
show_headers	Logical. Whether to print request headers (default: TRUE). Sensitive values are redacted.
show_cookies	Logical. Whether to print cookies (default: TRUE). Values are always redacted.
show_body	Logical. Whether to print the parsed body or raw postBody (default: TRUE). Useful for debugging JSON payloads.
max_chars	Integer. Maximum number of characters to print for large JSON or raw bodies. Defaults to 2000.

## Value

Invisibly returns NULL. The function is called for its side-effect of printing formatted logs to the console.

## See Also

[cli::cli\\_inform\(\)](#), [cli::cli\\_rule\(\)](#), [cli::cli\\_verbatim\(\)](#)



## Examples

```
## Not run:
# Inside a Plumber endpoint
## @post /myendpoint
function(req, res) {
  whapi_log_plumber_req(req) # Prints nicely formatted info about the incoming request
  list(success = TRUE)
}

# Print only metadata, no headers/body
whapi_log_plumber_req(req, show_headers = FALSE, show_body = FALSE)

## End(Not run)
```

---

`whapi_log_pretty_json` *Convert R objects to pretty JSON for logging*

---

## Description

Converts R objects to a JSON string for easier inspection in logs. Falls back to `utils::str()` output if `jsonlite` is not available or if JSON conversion fails. Long outputs are truncated with [whapi\\_trunc](#).

## Usage

```
whapi_log_pretty_json(x, max = 2000L)
```

## Arguments

<code>x</code>	An R object (list, data frame, etc.).
<code>max</code>	Integer. Maximum number of characters to print (default: 2000).

## Value

A character string containing JSON (pretty-printed if possible).

## Examples

```
whapi_log_pretty_json(list(a = 1, b = "test"))
whapi_log_pretty_json(mtcars[1:2, ], max = 100)
```

---

whapi_make_unique	<i>Make identifiers unique while preserving order</i>
-------------------	---

---

## Description

Ensures that a character vector of identifiers is unique by appending numeric suffixes (`_2`, `_3`, ...) when duplicates are found, while preserving the original order.

## Usage

```
whapi_make_unique(x)
```

## Arguments

`x`                      A character vector of IDs (possibly with duplicates).

## Details

This helper is particularly useful when generating button IDs for WhatsApp interactive messages via Whapi. Even after `whapi_slugify` labels, duplicates may remain (e.g., two buttons both titled "Yes"). The function guarantees uniqueness by incrementally appending a suffix.

Algorithm:

- Iterates through `x` in order;
- Keeps a counter of how many times each ID has appeared;
- First occurrence is left unchanged;
- Subsequent duplicates get suffixed with `_n`.

## Value

A character vector of the same length with unique IDs.

## See Also

[whapi\\_slugify\(\)](#) for slug-safe ID creation.

## Examples

```
whapi_make_unique(c("yes", "no", "yes", "yes", "maybe", "no"))
# -> "yes", "no", "yes_2", "yes_3", "maybe", "no_2"

# Combined with whapi_slugify
titles <- c("Yes!", "Yes!", "No?")
ids <- whapi_make_unique(whapi_slugify(titles))
tibble::tibble(title = titles, id = ids)
```

---

whapi\_mark\_message\_read

*Mark a WhatsApp message as READ (Whapi.Cloud)*


---

## Description

Marks a message as **read** using PUT /messages/{MessageID}. This endpoint returns only a minimalistic ACK in the body: {"success": true | false}.

## Usage

```
whapi_mark_message_read(
  message_id,
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  timeout = 30,
  verbose = TRUE
)
```

## Arguments

message_id	Character(1). Message ID (WAMID) to be marked as read.
token	Character(1). Bearer token. Default: Sys.getenv("WHAPI_TOKEN").
timeout	Numeric(1). Timeout (s). Default: 30.
verbose	Logical(1). Show logs via <b>cli</b> ? Default: TRUE.

## Value

A tibble with the following columns:

- id - the provided message\_id;
- status - "read" when success=TRUE, "error" otherwise;
- success - logical value returned by the endpoint;
- resp - raw response (list).

## Examples

```
## Not run:
Sys.setenv(WHAPI_TOKEN = "your_token_here")
whapi_mark_message_read("PsqXn5SAD5v7HRA-wHqB9tMeGQ")

## End(Not run)
```

---

whapi_match_digits	<i>Digit matching helper (with partial threshold)</i>
--------------------	---

---

### Description

Matches a digit-only needle inside a digit-only haystack. If needle has at least `min_partial` digits, partial matching is allowed. Otherwise, only exact matches are considered.

### Usage

```
whapi_match_digits(haystack, needle, min_partial = 6)
```

### Arguments

haystack	String with potential digits to search in.
needle	String with digits to search for.
min_partial	Minimum number of digits required to allow partial match.

### Value

Logical (TRUE/FALSE) indicating whether a match was found.

### Examples

```
whapi_match_digits("tel: 81998765432", "987654")
#> TRUE
whapi_match_digits("12345", "123", min_partial = 4)
#> FALSE
```

---

whapi_normalize_to	<i>Normalize WhatsApp contact IDs (phone numbers only)</i>
--------------------	--

---

### Description

Cleans and normalizes WhatsApp phone numbers by:

- Skipping normalization if the entry already contains a JID suffix (e.g., "@s.whatsapp.net" or "@g.us");
- Otherwise, removing all non-digit characters (+, spaces, parentheses, hyphens, etc.);
- Removing the **ninth digit** (when present) right after the country code (CC) and area code (SS), in order to standardize to 12 or 13 digits.

### Usage

```
whapi_normalize_to(to)
```

**Arguments**

to                      Character. A character vector of WhatsApp numbers in free text format or JIDs.

**Details**

This function is primarily designed for **Brazilian E.164 numbers** (e.g., +55 (81) 9XXXX-YYYY).

**Value**

A character vector of normalized IDs (phones -> digits only, JIDs kept as-is).

---

whapi_only_digits	<i>Keep only digits from a string</i>
-------------------	---------------------------------------

---

**Description**

Removes all non-digit characters from the input string. Useful for cleaning phone numbers, CN-PJs/CPFs, or process codes.

**Usage**

```
whapi_only_digits(x)
```

**Arguments**

x                      Character vector or string. If NULL, an empty string is used.

**Value**

A string containing only numeric digits.

**Examples**

```
whapi_only_digits("(81) 98765-4321")  
#> "81987654321"
```

---

whapi_parse_body	<i>Parse the raw body of a Plumber request</i>
------------------	--

---

### Description

Attempts to parse the body of a Plumber req object. Supports both req\$body (already parsed) and req\$bodyRaw (raw binary). If the body looks like JSON ({...} or [...]), it tries to parse it with jsonlite::fromJSON. Otherwise, it returns the raw text.

### Usage

```
whapi_parse_body(req)
```

### Arguments

req	A Plumber request object (list-like).
-----	---------------------------------------

### Value

A list representing the parsed body, or NULL if no body is found.

---

whapi_parse_command	<i>Parse a text message into command and arguments (Whapi helper)</i>
---------------------	---

---

### Description

Splits an incoming text (usually from a WhatsApp message) into a **command** (the first token, starting with /) and its associated **arguments**. Supports collapsing arguments into a single string or preserving them as a character vector.

### Usage

```
whapi_parse_command(text, collapse_args = TRUE)
```

### Arguments

text	A character string containing the full message (e.g. "/groee ajuda").
collapse_args	Logical, default TRUE. If TRUE, all arguments are collapsed into a single space-separated string. If FALSE, arguments are returned as a character vector of tokens.

### Value

A list with two elements:

command The command string (first token), trimmed (e.g. "/groee").

arguments The arguments, either collapsed as a single string (default) or as a character vector, depending on collapse\_args.

**See Also**

`stringr::str_extract()`, `stringr::str_split()`

**Examples**

```
whapi_parse_command("/groe ajuda")
#> $command
#> [1] "/groe"
#>
#> $arguments
#> [1] "ajuda"

whapi_parse_command("/groe nome empresa", collapse_args = FALSE)
#> $command
#> [1] "/groe"
#>
#> $arguments
#> [1] "nome" "empresa"
```

---

`whapi_perform_request` *Perform an HTTP request to Whapi.Cloud*

---

**Description**

Generic helper wrapping `httr2` to call Whapi endpoints. Supports methods: "GET", "POST", "PUT". Handles JSON encoding, retries, errors, and CLI logging.

**Usage**

```
whapi_perform_request(
  endpoint,
  payload = NULL,
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  timeout = 30,
  verbose = TRUE,
  method = c("POST", "GET", "PUT")
)
```

**Arguments**

<code>endpoint</code>	Character(1). Endpoint path (e.g. "messages/text"). Full URL is constructed as "https://gate.whapi.cloud/{endpoint}".
<code>payload</code>	List. Request body (for POST/PUT) or query (for GET). Default: NULL.
<code>token</code>	Character(1). Bearer token. Defaults to env var WHAPI_TOKEN.
<code>timeout</code>	Numeric. Timeout in seconds. Default 30.
<code>verbose</code>	Logical. Print progress via cli? Default TRUE.
<code>method</code>	Character(1). HTTP method ("GET", "POST", "PUT"). Default "POST".

**Value**

Parsed JSON response as a list.

---

whapi\_react\_to\_message

*React to a WhatsApp message (Whapi.Cloud)*

---

**Description**

Sends (or removes) an **emoji reaction** to a message via PUT /messages/{MessageID}/reaction. The endpoint returns only { "success": true | false }.

**Usage**

```
whapi_react_to_message(
  message_id,
  emoji,
  token = Sys.getenv("WHAPE_TOKEN", unset = ""),
  timeout = 30,
  verbose = TRUE
)
```

**Arguments**

message_id	Character(1). Target message ID (WAMID).
emoji	Character(1). Emoji to react with. To remove a reaction, pass an empty string "".
token	Character(1). Bearer token. Defaults to env var WHAPE_TOKEN.
timeout	Numeric(1). Request timeout in seconds. Default: 30.
verbose	Logical(1). Print CLI logs? Default: TRUE.

**Value**

A tibble with columns:

- id - message\_id reacted to
- emoji - emoji used (or "" if removed)
- status - "ok" if success, "error" otherwise
- success - logical flag from API
- resp - raw response (list)



---

whapi_redact	<i>Redact sensitive values in headers/cookies</i>
--------------	---

---

### Description

Replaces sensitive header or cookie values (e.g., Authorization, Cookie, X-API-Key) with the literal string "<redacted>". Useful when logging HTTP requests while avoiding credential leaks.

### Usage

```
whapi_redact(name, value)
```

### Arguments

name	Header or cookie name (character).
value	Header or cookie value (character).

### Value

The original value, or "<redacted>" if the header is considered sensitive.

### Examples

```
whapi_redact("Authorization", "Bearer abc123")
whapi_redact("Content-Type", "application/json")
```

---

whapi_send_document	<i>Send a DOCUMENT via Whapi.Cloud (file, url, or base64)</i>
---------------------	---

---

### Description

Sends a document using Whapi's POST /messages/document. Supports three input modes via type:

- "file" : local path -> reads bytes and builds a data URI (data:<mime>;name=<file>;base64,<...>);
- "url" : direct http(s) URL;
- "base64" : pre-built data URI (data:application/...;name=...;base64,...).

**Usage**

```
whapi_send_document(
  to,
  document,
  type = c("file", "url", "base64"),
  caption = NULL,
  filename = NULL,
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  timeout = 30,
  verbose = TRUE
)
```

**Arguments**

to	Character(1). WhatsApp target (E.164 digits only, no "+") or chat id.
document	Character(1). File path (when type="file"), URL ("url"), or data URI ("base64").
type	One of c("file", "url", "base64"). Default: "file".
caption	Optional caption text.
filename	Optional filename shown to the user. If omitted: <ul style="list-style-type: none"> <li>• type="file" -&gt; uses basename(document);</li> <li>• type="url" -&gt; uses the URL basename (without query/fragment);</li> <li>• type="base64" -&gt; tries the name= part inside the data URI.</li> </ul>
token	Bearer token (defaults to env var WHAPI_TOKEN).
timeout	Numeric. Request timeout in seconds. Default 30.
verbose	Logical. Print CLI messages? Default TRUE.

**Value**

A tibble with id, to, status, timestamp, timestamp\_dt, and raw resp.

**Examples**

```
## Not run:
Sys.setenv(WHAPI_TOKEN = "your_token_here")
whapi_send_document("5581999999999", "report.pdf", type="file", caption="Monthly report")
whapi_send_document("5581999999999", "https://example.com/contract.docx", type="url")
b <- openssl::base64_encode(readBin("memo.odt", "raw", file.info("memo.odt")$size))
du <- sprintf("data:application/vnd.oasis.opendocument.text;name=%s;base64,%s",
  basename("memo.odt"), b)
whapi_send_document("5581999999999", du, type="base64")

## End(Not run)
```

---

whapi_send_image	<i>Send an image via Whapi.Cloud (file, url, or base64)</i>
------------------	---

---

### Description

Sends an image using Whapi's POST /messages/image. Supports three input modes through type:

- "file": local path -> reads bytes and builds a data:<mime>;name=<file>;base64,<...> URI
- "url": direct http(s) URL
- "base64": pre-built data URI (data:image/...;base64,...)

### Usage

```
whapi_send_image(
  to,
  image,
  type = c("file", "url", "base64"),
  caption = NULL,
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  timeout = 30,
  verbose = TRUE
)
```

### Arguments

to	Character(1). WhatsApp target (E.164 digits only, no "+") or chat id.
image	Character(1). File path (for type="file"), URL (type="url"), or data URI (type="base64").
type	One of c("file", "url", "base64"). Default = "file".
caption	Optional caption text.
token	Bearer token (defaults to env var WHAPI_TOKEN if not given).
timeout	Numeric. Timeout in seconds. Default 30.
verbose	Logical. Show CLI messages? Default TRUE.

### Value

A tibble with id, to, status, timestamp, timestamp\_dt, and raw resp.

### Examples

```
## Not run:
# Sys.setenv(WHAPI_TOKEN = "your_token_here")
whapi_send_image("5581999999999", image = "card.png", type = "file", caption = "Card")
whapi_send_image("5581999999999", image = "https://site.com/img.png", type = "url")
b64 <- openssl::base64_encode(readBin("card.png", "raw", file.info("card.png")$size))
```

```
data_uri <- sprintf("data:image/png;name=%s;base64,%s", basename("card.png"), b64)
whapi_send_image("5581999999999", image = data_uri, type = "base64")
```

```
## End(Not run)
```

---

whapi_send_list	<i>Send a WhatsApp interactive LIST message (Whapi.Cloud)</i>
-----------------	---

---

## Description

Sends an interactive **LIST** message via Whapi. Sections/rows are validated by [whapi\\_validate\\_list\\_sections\(\)](#). The payload reuses [whapi\\_common\\_blocks\(\)](#) to keep structure consistent across interactive message types.

## Usage

```
whapi_send_list(
  to,
  body_text,
  list_sections,
  list_label = "Choose...",
  header_text = NULL,
  footer_text = NULL,
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  timeout = 30,
  verbose = TRUE
)
```

## Arguments

to	Character(1). Phone in E.164 digits (without "+") or group id.
body_text	Character(1). Main body text.
list_sections	A list of sections. Each section is a named list: list(title = <chr>, rows = list(list(id=<chr>, ti
list_label	Character(1), optional. Button label that opens the list. Default: "Choose..."
header_text, footer_text	Character(1), optional. Header/footer texts.
token	Bearer token. Defaults to env var WHAPI_TOKEN.
timeout	Numeric. Request timeout in seconds. Default 30.
verbose	Logical. Print CLI messages? Default TRUE.

## Value

A tibble with id, to, status, timestamp, and the raw response in resp.

## See Also

[whapi\\_validate\\_list\\_sections\(\)](#), [whapi\\_common\\_blocks\(\)](#), [whapi\\_perform\\_request\(\)](#), [whapi\\_extract\\_common\\_f](#)

**Examples**

```
## Not run:
Sys.setenv(WHAPI_TOKEN = "your_token_here")
sections <- list(
  list(
    title = "Burgers",
    rows = list(
      list(id="b1", title="Plain", description="No cheese, no sauce"),
      list(id="b2", title="Cheese", description="With melted cheese")
    )
  ),
  list(
    title = "Drinks",
    rows = list(
      list(id="d1", title="Water"),
      list(id="d2", title="Soda", description="Assorted flavors")
    )
  )
)
whapi_send_list(
  to = "5581999999999",
  body_text = "Choose your order:",
  list_sections = sections,
  list_label = "Open menu",
  header_text = "Our Menu",
  footer_text = "Thanks!"
)

## End(Not run)
```

---

whapi_send_location	<i>Send a geographic location via Whapi.Cloud</i>
---------------------	---

---

**Description**

Sends a location message using Whapi's POST /messages/location. Supports optional name (short title) and address (human-readable).

**Usage**

```
whapi_send_location(
  to,
  latitude,
  longitude,
  name = NULL,
  address = NULL,
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  timeout = 30,
  verbose = TRUE
)
```

**Arguments**

to	Character(1). WhatsApp target (E.164 digits only, no "+") or chat id.
latitude	Numeric(1). Latitude in decimal degrees (range: -90..90).
longitude	Numeric(1). Longitude in decimal degrees (range: -180..180).
name	Optional character(1). Short title for the location.
address	Optional character(1). Human-readable address/description.
token	Bearer token (defaults to env var WHAPI_TOKEN).
timeout	Numeric. Request timeout (seconds). Default 30.
verbose	Logical. Print CLI messages? Default TRUE.

**Value**

A tibble with id, to, status, timestamp, timestamp\_dt, and raw resp.

**Examples**

```
## Not run:
Sys.setenv(WHAPI_TOKEN = "your_token_here")
whapi_send_location("5581999999999",
  latitude = -8.063169, longitude = -34.871139,
  name = "Marco Zero", address = "Recife, PE")

# Group id example
whapi_send_location("1203630xxxxxxx@g.us", -8.045, -34.91)

## End(Not run)
```

---

whapi\_send\_mixed\_actions

*Send a WhatsApp interactive message mixing URL/CALL/COPY buttons (Whapi.Cloud)*

---

**Description**

Sends an interactive **buttons** message that mixes url, call, and/or copy actions. Input buttons are normalized/validated by `whapi_coerce_buttons_mixed()` (aliases mapped to title, auto id creation, required fields per type).

**Usage**

```
whapi_send_mixed_actions(
  to,
  body_text,
  buttons,
  header_text = NULL,
```

```

    footer_text = NULL,
    token = Sys.getenv("WHAPI_TOKEN", unset = ""),
    timeout = 30,
    verbose = TRUE
  )

```

## Arguments

to	Character(1). Phone in E.164 digits (without "+") or group id.
body_text	Character(1). Main body text.
buttons	Data frame or list. Up to 3 items; each must define a type in {'url', 'call', 'copy'} and include the fields: <ul style="list-style-type: none"> <li>• url: title, id, url</li> <li>• call: title, id, phone_number</li> <li>• copy: title, id, copy_code (id is auto-generated if missing; title required)</li> </ul>
header_text, footer_text	Character (optional). Header/footer texts.
token	Bearer token. Defaults to env var WHAPI_TOKEN.
timeout	Numeric. Request timeout (seconds). Default 30.
verbose	Logical. Print CLI messages? Default TRUE.

## Value

A tibble with fields id, to, status, timestamp, and the raw response in resp.

## See Also

[whapi\\_coerce\\_buttons\\_mixed\(\)](#), [whapi\\_common\\_blocks\(\)](#), [whapi\\_perform\\_request\(\)](#)

## Examples

```

## Not run:
Sys.setenv(WHAPI_TOKEN = "your_token_here")
whapi_send_mixed_actions(
  to = "5581999999999",
  body_text = "Pick an option:",
  buttons = list(
    list(type="url", title="Website", url="https://example.com"),
    list(type="call", title="Call us", phone_number="5581999999999"),
    list(type="copy", title="Copy OTP", copy_code="123456")
  )
)

## End(Not run)

```

---

whapi\_send\_quick\_reply

*Send a WhatsApp interactive message with QUICK REPLY buttons (Whapi.Cloud)*

---

## Description

Sends an interactive message of type **QUICK REPLY** via Whapi. Each button is normalized/validated by [whapi\\_coerce\\_buttons\\_quick\(\)](#) and automatically gets a unique slugified id if missing.

## Usage

```
whapi_send_quick_reply(
  to,
  body_text,
  buttons,
  header_text = NULL,
  footer_text = NULL,
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  timeout = 30,
  verbose = TRUE
)
```

## Arguments

to	Character (length 1). Phone in E.164 digits (without "+") or group id.
body_text	Character. Main body text.
buttons	Data frame or list. Up to 3 items; fields: title, id (id auto-generated if missing).
header_text, footer_text	Character (optional). Header/footer texts.
token	Bearer token. Defaults to env var WHAPI_TOKEN.
timeout	Numeric, request timeout in seconds. Default 30.
verbose	Logical, print CLI messages. Default TRUE.

## Value

A tibble with fields id, to, status, timestamp, and raw response resp.

## See Also

[whapi\\_coerce\\_buttons\\_quick\(\)](#), [whapi\\_common\\_blocks\(\)](#), [whapi\\_perform\\_request\(\)](#)



**Examples**

```
## Not run:
Sys.setenv(WHAPI_TOKEN = "your_token_here")
whapi_send_quick_reply(
  to = "5581999999999",
  body_text = "Do you confirm?",
  buttons = tibble::tribble(~title, "YES", "NO")
)

## End(Not run)
```

---

whapi_send_sticker	<i>Send a STICKER via Whapi.Cloud (file, url, or base64)</i>
--------------------	--

---

**Description**

Sends a WhatsApp sticker via POST /messages/sticker. The sticker must be in WebP format (image/webp).

**Usage**

```
whapi_send_sticker(
  to,
  sticker,
  type = c("file", "url", "base64"),
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  timeout = 30,
  verbose = TRUE
)
```

**Arguments**

to	Character(1). WhatsApp target (E.164 digits only, no "+") or chat id.
sticker	Character(1). <ul style="list-style-type: none"> <li>• If type = "file": local .webp file path (will be read and encoded to Base64 data-URI).</li> <li>• If type = "url": direct http(s) URL to the .webp file.</li> <li>• If type = "base64": full data-URI string (e.g. "data:image/webp;name=st.webp;base64,&lt;...&gt;").</li> </ul>
type	One of c("file", "url", "base64"). Default = "file".
token	Bearer token (env var WHAPI_TOKEN if not provided).
timeout	Numeric. Request timeout (seconds). Default 30.
verbose	Logical. Print CLI messages? Default TRUE.

**Value**

tibble with id, to, status, timestamp, and raw response in resp.

**Examples**

```
## Not run:
Sys.setenv(WHAPI_TOKEN = "your_token_here")

# 1) Local file
whapi_send_sticker("558191812121",
  sticker = "sticker.webp", type = "file")

# 2) Remote URL
whapi_send_sticker("558191812121",
  sticker = "https://example.com/condepe.webp", type = "url")

# 3) Pre-encoded Base64
b64 <- openssl::base64_encode(readBin("sticker.webp", "raw", file.info("sticker.webp")$size))
data_uri <- sprintf("data:image/webp;name=%s;base64,%s", basename("sticker.webp"), b64)
whapi_send_sticker("558191812121", sticker = data_uri, type = "base64")

## End(Not run)
```

whapi\_send\_text

*Send a text message via Whapi.Cloud***Description**

Send a text message via Whapi.Cloud

**Usage**

```
whapi_send_text(
  to,
  body,
  token = Sys.getenv("WHAPI_TOKEN", unset = ""),
  quoted = NULL,
  edit = NULL,
  typing_time = NULL,
  no_link_preview = NULL,
  wide_link_preview = NULL,
  mentions = NULL,
  view_once = NULL,
  timeout = 30,
  verbose = TRUE
)
```

**Arguments**

to	Character. WhatsApp number in full international format WITHOUT "+" (digits only, e.g. "5581999999999"), or an existing group/channel id.
body	Character. Text of the message (UTF-8).

token	Character. Whapi Bearer token. By default, taken from the environment variable WHAPI_TOKEN if not provided.
quoted, edit	Character (optional). Message IDs to quote or edit.
typing_time	Numeric (optional). Seconds to simulate typing.
no_link_preview	Logical (optional). TRUE to disable link preview.
wide_link_preview	Logical (optional). TRUE to enable wide preview for links.
mentions	Character vector (optional). Numbers to mention (without "+").
view_once	Logical (optional). TRUE to mark message as "view once".
timeout	Numeric. Request timeout in seconds. Default: 30.
verbose	Logical. Print messages via cli? Default: TRUE.

### Value

A tibble with essential information (id, to, status, timestamp) and the full API response in column resp (as list).

### Examples

```
## Not run:
# Make sure you set WHAPI_TOKEN in your environment or pass via argument
Sys.setenv(WHAPI_TOKEN = "your_token_here")

# Simple example:
whapi_send_text("5581999999999", "Hello! Test message via API")

# With extra options:
whapi_send_text(
  to = "5581999999999",
  body = "Hello, @5581999999999 Ola",
  mentions = c("5581999999999"),
  typing_time = 2, no_link_preview = TRUE
)

## End(Not run)
```

---

whapi\_slugify

*whapi\_slugify strings for safe IDs (e.g., button IDs in Whapi)*


---

### Description

Converts free-text labels into a safe "slug" format suitable for use as message button IDs or other identifiers in Whapi API requests. Ensures that IDs contain only lowercase letters, digits, and underscores, and are never empty (defaults to "btn" if the input is blank).

**Usage**

```
whapi_slugify(x)
```

**Arguments**

**x**                      A character vector of labels.

**Details**

This function is particularly useful when creating interactive messages (buttons, lists) in WhatsApp via Whapi, where each button requires a valid id. By whapi\_slugifying titles automatically, we can safely generate IDs even if users provide arbitrary labels with spaces, accents, or symbols.

Transformation steps:

1. Convert to lowercase;
2. Replace any sequence of non-alphanumeric characters with \_;
3. Trim leading/trailing underscores;
4. Replace empty results with "btn".

**Value**

A character vector of the same length with slugified IDs.

**See Also**

Used internally in whapi\_send\_quick\_reply() and other interactive message helpers.

**Examples**

```
whapi_slugify(c("Yes!", "Call Us", "Sale!", "###"))
# -> "yes", "call_us", "promocao_rapida", "btn"

# Use case in button creation:
titles <- c("Buy Now", "Learn More")
ids <- whapi_slugify(titles)
tibble::tibble(title = titles, id = ids)
```

---

whapi\_to\_ascii\_lower    *Convert text to lowercase ASCII (remove accents)*

---

**Description**

Converts input text to lowercase and strips diacritics (accents) by applying a latin-ascii transliteration. Useful for normalization before matching or slug generation.

**Usage**

```
whapi_to_ascii_lower(x)
```

**Arguments**

x                      Character vector or string. If NULL, an empty string is used.

**Value**

A character vector in lowercase ASCII without accents.

**Examples**

```
whapi_to_ascii_lower("Sao Paulo")  
#> "sao paulo"
```

---

whapi_to_posixct	<i>Convert numeric timestamp to POSIXct (UTC)</i>
------------------	---

---

**Description**

Utility function to convert a Unix timestamp (seconds since 1970-01-01 UTC) into a POSIXct object. Uses `lubridate::as_datetime()` for readability and consistency with the tidyverse ecosystem.

**Usage**

```
whapi_to_posixct(x)
```

**Arguments**

x                      A numeric or character vector representing a Unix timestamp (seconds since epoch). Can be NULL or NA.

**Value**

A POSIXct object (in UTC) or NA if x is NULL or NA.

**See Also**

`lubridate::as_datetime()`

**Examples**

```
# Single timestamp
whapi_to_posixct(1756426418)

# Vector of timestamps (with NA)
whapi_to_posixct(c(1756426418, NA))

# Character input
whapi_to_posixct("1756426418")
```

---

whapi_trunc	<i>Truncate long strings for logging</i>
-------------	--

---

**Description**

Helper function to shorten long strings when printing to logs. If the input string exceeds max characters, it is truncated and suffixed with "... (truncated)".

**Usage**

```
whapi_trunc(x, max = 2000L)
```

**Arguments**

x	A character string (or coercible to character).
max	Integer. Maximum number of characters to display (default: 2000).

**Value**

A character string, possibly truncated.

**Examples**

```
whapi_trunc("short text", max = 10)
whapi_trunc(paste(rep("a", 5000), collapse = ""), max = 20)
```

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whapi\_validate\_list\_sections

*Validate list\_sections for Whapi LIST interactive messages*


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## Description

Internal helper that validates the structure of `list_sections` used in Whapi **LIST** messages. Each section must provide a non-empty title and a non-empty rows list. Each row must provide non-empty id and title. The description field is optional.

## Usage

```
whapi_validate_list_sections(list_sections, verbose = TRUE, trim = TRUE)
```

## Arguments

<code>list_sections</code>	A list of sections; each section is a named list with title (character) and rows (list of row objects).
<code>verbose</code>	Logical (default TRUE). If TRUE, prints progress messages via <b>cli</b> .
<code>trim</code>	Logical (default TRUE). If TRUE, trims whitespace from <code>section\$title</code> , <code>row\$title</code> , and <code>row\$id</code> before validating.

## Details

Expected structure:

```
list_sections <- list(
  list(
    title = "Section title",
    rows = list(
      list(id = "r1", title = "Row title", description = "Optional"),
      ...
    )
  ),
  ...
)
```

This function performs **lightweight validation** and (optionally) trims whitespace from titles and ids to avoid subtle formatting issues.

## Value

The (possibly trimmed) `list_sections` object, invisibly unchanged in shape.

## See Also

Helpers for interactive payloads such as `whapi_coerce_buttons_base()`, `whapi_coerce_buttons_quick()`, and `whapi_coerce_buttons_mixed()`.

**Examples**

```
sections <- list(  
  list(  
    title = "Burgers",  
    rows = list(  
      list(id = "r1", title = "Plain", description = "No cheese, no sauce"),  
      list(id = "r2", title = "Cheese", description = "With melted cheese")  
    )  
  )  
)  
whapi_validate_list_sections(sections)
```



# Index

`base::format()`, 13

`cli::cli_inform()`, 16

`cli::cli_rule()`, 16

`cli::cli_verbatim()`, 16

`httr2::resp_body_json()`, 11

`lubridate::as_datetime()`, 37

`stringr::str_extract()`, 23

`stringr::str_split()`, 23

`whapi_build_servicos_sections`, 3

`whapi_check_health`, 4

`whapi_clip_text`, 5

`whapi_coerce_buttons_base`, 6

`whapi_coerce_buttons_base()`, 7, 8

`whapi_coerce_buttons_mixed`, 7

`whapi_coerce_buttons_mixed()`, 30, 31

`whapi_coerce_buttons_quick`, 8

`whapi_coerce_buttons_quick()`, 7, 32

`whapi_common_blocks`, 9

`whapi_common_blocks()`, 28, 31, 32

`whapi_date_diff_days`, 10

`whapi_extract_common_fields`, 11

`whapi_extract_common_fields()`, 28

`whapi_flatten_webhook`, 12

`whapi_fmt_date`, 13

`whapi_get_contact_profile`, 13

`whapi_get_message`, 15

`whapi_log_plumber_req`, 16

`whapi_log_pretty_json`, 17

`whapi_make_unique`, 18

`whapi_mark_message_read`, 19

`whapi_match_digits`, 20

`whapi_normalize_to`, 20

`whapi_normalize_to()`, 9, 14

`whapi_only_digits`, 21

`whapi_parse_body`, 22

`whapi_parse_command`, 22

`whapi_perform_request`, 23

`whapi_perform_request()`, 28, 31, 32

`whapi_react_to_message`, 24

`whapi_redact`, 25

`whapi_send_document`, 25

`whapi_send_document()`, 12

`whapi_send_image`, 27

`whapi_send_image()`, 12

`whapi_send_list`, 28

`whapi_send_list()`, 9

`whapi_send_location`, 29

`whapi_send_location()`, 12

`whapi_send_mixed_actions`, 30

`whapi_send_mixed_actions()`, 9

`whapi_send_quick_reply`, 32

`whapi_send_quick_reply()`, 9

`whapi_send_sticker`, 33

`whapi_send_text`, 34

`whapi_send_text()`, 12

`whapi_slugify`, 35

`whapi_slugify()`, 18

`whapi_to_ascii_lower`, 36

`whapi_to_posixct`, 37

`whapi_trunc`, 17, 38

`whapi_validate_list_sections`, 39

`whapi_validate_list_sections()`, 28