Package: matchpointR (via r-universe)

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Type Package

Title Tidy Access to Women's Tennis Association (WTA) Data

Version 0.1.0

Description Scrapes and tidies publicly available data from the Women's Tennis Association website (<https://www.wtatennis.com>). Provides helpers to retrieve player biographies, singles and doubles career overviews, match histories, live rankings and aggregate statistics. Dynamic pages are rendered through a headless 'Chrome' session so 'JavaScript'-generated content is fully captured, and all outputs are returned as tidy data frames suitable for downstream analysis or visualisation.

License Apache License (>= 2)

URL https://github.com/Angnar-97/matchpointR, https://angnar-97.github.io/matchpointR/

BugReports https://github.com/Angnar-97/matchpointR/issues

Encoding UTF-8

LazyData true

Depends R (>= 4.1.0)

Imports chromote, cli, jsonlite, magick, purrr, rvest, stringr, tibble, xml2

Suggests httr2, knitr, rmarkdown, rsvg, testthat (>= 3.0.0), withr

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RoxygenNote 7.3.3

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`wta_get_player_basics` *Get basic bio for a WTA player*

Description

Parses the profile header of a WTA player page and returns a one-row tibble with name, nationality, birth date, birth place, height and handedness. The bulk of the data is read from the page's JSON-LD (schema.org Person) block, which is more stable than the visual markup; height is read from the profile bio block as a fallback.

Usage

```
wta_get_player_basics(player_url, download_images = TRUE)
```

Arguments

`player_url`	Character. Full URL to a player page. Build it with `wta_player_url()` if you only have the numeric id.
`download_images`	Logical. When `TRUE` (default) the headshot is downloaded into a `magick-image` object. Set to `FALSE` to skip the network round-trip and return only the image URL.

Value

A one-row `tibble::tibble()` with columns:

`player_id` Numeric WTA id parsed from `@id`.

`name`, `given_name`, `family_name` Name fields.

`birth_date` Date of birth (ISO 8601 character).

`nationality`, `birth_place`, `birth_country` Geography fields.

`height` Height string as shown on the bio (e.g. `5' 9" (1.74m)`).

`handedness` Dominant hand (`"Right-Handed"` / `"Left-Handed"`).

`nationality_code` 3-letter IOC/ISO code extracted from the flag image (e.g. `"CZE"`, `"USA"`).

`player_image_url`, `nationality_flag_url` Headshot and flag URLs.

`player_image` `magick-image` of the headshot, when `download_images = TRUE`.

`nationality_flag` `magick-image` of the flag SVG, when `download_images = TRUE` and the suggested package **rsvg** is installed (otherwise `NA`).

Examples

```
wta_get_player_basics(wta_player_url(320301, "katerina-siniakova"))
```

`wta_get_player_matches`

Get the match history for a WTA player

Description

Walks the dynamic "Matches" page of a player profile, clicking the "Show more" button until the full history is loaded, and returns one row per match with tournament, round, opponent, score and result.

Usage

```
wta_get_player_matches(player_url, max_clicks = 50L)
```

Arguments

`player_url`	Character. URL to the player page; the function normalises to the `/matches` path automatically.
`max_clicks`	Integer. Safety cap for the "Show more" click loop. Defaults to 50.

Value

A `tibble::tibble()` with one row per match and columns: `tournament`, `tournament_date`, `round`, `opponent`, `opponent_seed`, `opponent_country`, `opponent_rank`, `score`, `result`.

Examples

```
url <- wta_player_url(320301, "katerina-siniakova", "matches")
wta_get_player_matches(url)
```

wta_get_player_overview

Get a WTA player's career highlights

Description

Returns the structured "additional properties" block from the page's JSON-LD: current singles and doubles rank, career titles, career prize money. Supplements with the career-high singles rank read from the bio side panel.

Usage

```
wta_get_player_overview(player_url)
```

Arguments

player_url	Character. URL to the player overview page.

Value

A long-format tibble::tibble() with columns metric and value. Rows include singles_rank, doubles_rank, singles_career_titles, doubles_career_titles, career_prize_money, career_high.

Examples

```
wta_get_player_overview(wta_player_url(320301, "katerina-siniakova"))
```

wta_get_rankings

Get the current WTA rankings

Description

Scrapes the rankings table at https://www.wtatennis.com/rankings/singles (or /doubles) and returns a tidy tibble. The initial page renders the first 50 rows; increase the browser dwell time with wait if the widget hasn't hydrated yet.

Usage

```
wta_get_rankings(type = c("singles", "doubles"), top = NULL, wait = 12)
```

Arguments

type	Character. One of "singles", "doubles". Defaults to "singles".
top	Integer. Limit the output to the top N ranked players. NULL (default) keeps every row rendered by the page.
wait	Numeric. Seconds to wait for the rankings widget to hydrate after navigation. Defaults to 12.

Value

A tibble::tibble() with one row per player and columns: rank, player_id, player, country, age, tournaments_played, points.

Examples

```
wta_get_rankings("singles", top = 50)
```

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wta_player_url *Build a WTA player URL*

Description

Convenience wrapper to assemble a canonical player URL from a numeric id and an optional slug.

Usage

```
wta_player_url(id, slug = NULL, section = c("overview", "matches"))
```

Arguments

id	Character or integer. The WTA numeric player id (e.g. 320301).
slug	Optional character. Player slug (e.g. "katerina-siniakova"). When omitted the URL still resolves — WTA redirects to the canonical one.
section	Optional character. Page section to append as a path segment, one of "overview", "matches". Defaults to "overview", which maps to the bare player URL.

Value

A single character string with the full URL.

Examples

```
wta_player_url(320301, "katerina-siniakova")
wta_player_url(320301, "katerina-siniakova", "matches")
```

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