

# Package ‘matchpointR’

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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>

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

**Encoding** UTF-8

**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

**Config/testthat/edition** 3

**RoxygenNote** 7.3.3

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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## Contents

wta_get_player_basics	2
wta_get_player_matches	3
wta_get_player_overview	3
wta_get_rankings	4
wta_player_url	5

<b>Index</b>	<b>6</b>
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wta\_get\_player\_basics *Get basic bio for a WTA player*

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### 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"))
```

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wta\_get\_player\_matches

*Get the match history for a WTA player*

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### 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)
```

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wta\_get\_player\_overview

*Get a WTA player's career highlights*

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### 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"))
```

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wta_get_rankings	<i>Get the current WTA rankings</i>
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**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	<i>Build a WTA player URL</i>
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**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")
```

# Index

`tibble::tibble()`, [2-4](#)

`wta_get_player_basics`, [2](#)

`wta_get_player_matches`, [3](#)

`wta_get_player_overview`, [3](#)

`wta_get_rankings`, [4](#)

`wta_player_url`, [5](#)

`wta_player_url()`, [2](#)