

# Package ‘cricketdata’

February 14, 2022

**Version** 0.1.1

**Title** International Cricket Data

**Description** Data on international and other major cricket matches from ESPNcricinfo <<https://www.espnricinfo.com>> and Cricsheet <<https://cricsheet.org>>. This package provides some functions to download the data into tibbles ready for analysis.

**Depends** R (>= 3.5.0)

**Imports** dplyr, lubridate, magrittr, progress, readr, rvest, stringr, tibble, tidyr, xml2

**Suggests** gghighlight, ggplot2, ggtext, glue, knitr, paletteer, patchwork, rmarkdown, showtext, tidyverse

**License** GPL-3

**Encoding** UTF-8

**ByteCompile** true

**RoxygenNote** 7.1.2

**VignetteBuilder** knitr

**URL** <http://pkg.robjhyndman.com/cricketdata/>,  
<https://github.com/robjhyndman/cricketdata>

**NeedsCompilation** no

**Author** Rob Hyndman [aut, cre],  
Timothy Hyndman [aut],  
Charles Gray [aut],  
Sayani Gupta [aut],  
Jacquie Tran [aut],  
Puwasala Gamakumara [ctb],  
Alex Whan [ctb]

**Maintainer** Rob Hyndman <Rob.Hyndman@monash.edu>

**Repository** CRAN

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|-------------|---|
| cricketdata | <i>Cricket Data from international and other major cricket matches.</i> |
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### Description

Data is provided by ESPNCricinfo and Cricsheet. This package provides some functions to download the data into tibbles ready for analysis. Please respect the terms of use for each website: [ESPNCricinfo](#), [Cricsheet](#).

### Details

|           |             |
|-----------|-------------|
| Package:  | cricketdata |
| Type:     | Package     |
| License:  | GPL3        |
| LazyLoad: | yes         |

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|----------------|---------------------------------|
| fetch_cricinfo | <i>Fetch Data from Cricinfo</i> |
|----------------|---------------------------------|

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### Description

Fetch data from ESPNCricinfo and return a tibble. All arguments are case-insensitive and partially matched.

### Usage

```
fetch_cricinfo(
  matchtype = c("test", "odi", "t20"),
  sex = c("men", "women"),
  activity = c("batting", "bowling", "fielding"),
  type = c("career", "innings"),
  country = NULL
)
```

**Arguments**

|           |   |
|-----------|---|
| matchtype | Character indicating test (default), odi, or t20.                             |
| sex       | Character indicating men (default) or women.                                  |
| activity  | Character indicating batting (default), bowling or fielding.                  |
| type      | Character indicating innings-by-innings or career (default) data              |
| country   | Character indicating country. The default is to fetch data for all countries. |

**Value**

A tibble object, similar to a `data.frame`.

**Author(s)**

Rob J Hyndman, Timothy Hyndman, Charles Gray

**Examples**

```
## Not run:
auswt20 <- fetch_cricinfo("T20", "Women", country="Aust")
IndiaODIBowling <- fetch_cricinfo("ODI", "men", "bowling", country="india")

## End(Not run)
```

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|                 |  |
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| fetch_cricsheet | <i>Fetch ball-by-ball, match and player data from Cricsheet and return a tibble.</i> |
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**Description**

Download csv data from Cricsheet <https://cricsheet.org/downloads/>. Data must be specified by three factors: (a) type of data: 'bbb' (ball-by-ball), 'match' or 'player'. (b) gender; (c) competition. See <https://cricsheet.org/downloads/> for what the competition character codes mean.

**Usage**

```
fetch_cricsheet(
  type = c("bbb", "match", "player"),
  gender = c("female", "male"),
  competition = c("tests", "multi_day", "odis", "odms", "t20is", "t20is_unofficial",
    "apl", "bbl", "bpl", "county", "edwards_cup", "cpl", "the_hundred", "ipl", "lpl",
    "msl", "t20_blast", "psl", "heyhoe_flint_trophy", "sheffield_shield", "super_smash",
    "wbb1", "wt20c")
)
```

**Arguments**

|             |  |
|-------------|--|
| type        | Character string giving type of data: ball-by-ball, match info or player info. |
| gender      | Character string giving player gender: female or male.                         |
| competition | Character string giving name of competition.                                   |

**Value**

A tibble object, similar to a `data.frame`.

**Author(s)**

Jacquie Tran and Rob J Hyndman

**Examples**

```
## Not run:
wbb1_bbb <- fetch_cricsheet(competition = "wbb1", type = "bbb")
wbb1_match <- fetch_cricsheet(competition = "wbb1", type = "match")
wbb1_player <- fetch_cricsheet(competition = "wbb1", type = "player")

## End(Not run)
```

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fetch\_player\_data      *Fetch Player Data*

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**Description**

Fetch individual player data from all matches played. The function will scrape the data from ESPN-Cricinfo and return a tibble with one line per innings for all games a player has played. To identify a player, use their Cricinfo player ID. The simplest way to find this is to look up their Cricinfo Profile page. The number at the end of the URL is the ID. For example, Meg Lanning's profile page is <http://www.espncricinfo.com/australia/content/player/329336.html>, so her ID is 329336.

**Usage**

```
fetch_player_data(
  playerid,
  matchtype = c("test", "odi", "t20"),
  activity = c("batting", "bowling", "fielding")
)
```

**Arguments**

|           |   |
|-----------|---|
| playerid  | The player ID as given in the Cricinfo profile. Integer or character.                   |
| matchtype | Which type of cricket matches do you want? Tests, ODIs or T20s? Not case-sensitive.     |
| activity  | Which type of activities do you want? Batting, Bowling or Fielding? Not case-sensitive. |

**Value**

A tibble containing data on the selected player, with one row for every innings of every match in which they have played.

**Author(s)**

Rob J Hyndman and Sayani Gupta

**Examples**

```
## Not run:
# Download data on some players
EllysePerry <- fetch_player_data(275487, "T20", "batting")
RahulDravid <- fetch_player_data(28114, "ODI", "fielding")
LasithMalinga <- fetch_player_data(49758, "Test", "bowling")

# Create a plot for Ellyse Perry's T20 scores
library(dplyr)
library(ggplot2)
EllysePerry %>% filter(!is.na(Runs)) %>%
ggplot(aes(x=Start_Date, y=Runs, col = Dismissal, na.rm = TRUE)) + geom_point() +
  ggtitle("Ellyse Perry's T20 Scores")

## End(Not run)
```

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|                |   |
|----------------|---|
| find_player_id | <i>Find a player id from cricinfo.com</i> |
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**Description**

Find a player id from cricinfo.com

**Usage**

```
find_player_id(searchstring)
```

**Arguments**

searchstring    Part of a player name(s) to search for. Can be a character vector.

**Value**

A table of matching players, their ids, and teams they played for.

**Author(s)**

Rob J Hyndman

**Examples**

```
## Not run:  
(perry <- find_player_id("Perry"))  
EllysePerry <- fetch_player_data(perry[2,"ID"], "test")  
  
## End(Not run)
```

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