Package ‘cricketr’

July 12, 2019

Type Package

Title Analyze Cricketers and Cricket Teams Based on ESPN Cricinfo Statsguru

Description Tools for analyzing performances of cricketers based on stats in ESPN Cricinfo Statsguru. The toolset can be used for analysis of Tests, ODIs and Twenty20 matches of both batsmen and bowlers. The package can also be used to analyze team performances.

Version 0.0.22

Date 2019-07-01

Author Tinniam V Ganesh

Maintainer Tinniam V Ganesh <tvganesh.85@gmail.com>

License MIT + file LICENSE

Depends R (>= 3.1.2)

Imports dplyr, plotrix, ggplot2, scatterplot3d, forecast, lubridate, XML, graphics, grDevices, stats, utils

URL https://github.com/tvganesh/cricketr

BugReports https://github.com/tvganesh/cricketr/issues

RoxygenNote 5.0.1

NeedsCompilation no

Repository CRAN

Date/Publication 2019-07-12 09:12:44 UTC

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Analyze Cricketers and Cricket Teams Based on ESPN Cricinfo Statsguru

This package analyzes the performances of cricketers using ESPN Cricinfo Statsguru data. The analysis can be done for Test, ODI and Twenty20 cricket for both batsman & bowlers.

Description

Tools for analyzing performances of cricketers based on stats in ESPN Cricinfo Statsguru. The toolset can be used for analysis of Tests, ODIs and Twenty20 matches of both batsmen and bowlers. The package can also be used to analyze team performances. This package analyzes the performances of cricketers using ESPN Cricinfo Statsguru data. The analysis can be done for Test, ODI and Twenty20 cricket for both batsman & bowlers.

Details

The DESCRIPTION file:

- **Package**: cricket
- **Type**: Package
- **Title**: Analyze Cricketers and Cricket Teams Based on ESPN Cricinfo Statsguru
- **Description**: Tools for analyzing performances of cricketers based on stats in ESPN Cricinfo Statsguru. The toolset can be used for analysis of Tests, ODIs and Twenty20 matches of both batsmen and bowlers. The package can also be used to analyze team performances.
- **Version**: 0.0.22
- **Date**: 2019-07-01
- **Author**: Tinniam V Ganesh
- **Maintainer**: Tinniam V Ganesh <tvganesh.85@gmail.com>
- **License**: MIT + file LICENSE
- **Depends**: R (>= 3.1.2)
- **Imports**: dplyr, plotrix, ggplot2, scatterplot3d, forecast, lubridate, XML, graphics, grDevices, stats, utils
- **URL**: https://github.com/tvganesh/cricketr
- **BugReports**: https://github.com/tvganesh/cricketr/issues
- **RoxygenNote**: 5.0.1

Index of help topics:

- **ER**: Calculate the mean Economy Rate
- **WR**: This function calculates the wicket rate vs mean number of deliveries
- **ashwin**: Data set for Ravichandran Ashwin
- **ashwin1**: Data set for Ravichander Ashwin
- **badree**: Data set for Samuel Badree
- **batsman4s**: Plot the numbers of 4s against the runs scored by batsman
- **batsman4s6s**: Compute and plot a stacked barplot of runs, 4s and 6s
- **batsman6s**: Plot the run range against the number of 6s
batsmanAvgRunsGround This function computes and plots the Average runs scored in the different grounds played by batsman

batsmanAvgRunsOpposition This function computes and plots the Average runs against different opposition played by batsman

batsmanContributionWonLost Display the batsman's contribution in matches that were won and those that were lost

batsmanCumulativeAverageRuns Batsman's cumulative average runs

batsmanCumulativeStrikeRate Batsman's cumulative average strike rate

batsmanDismissals Display a 3D Pie Chart of the dismissals of the batsman

batsmanMeanStrikeRate Calculate and plot the Mean Strike Rate of the batsman on total runs scored

batsmanMovingAverage Calculate and plot the Moving Average of the batsman in his career

batsmanPerfBoxHist Make a boxplot and a histogram of the runs scored by the batsman

batsmanPerfForecast Forecast the batting performance based on past performances using Holt-Winters forecasting

batsmanPerfHomeAway This function analyses the performance of the batsman at home and overseas

batsmanRunsFreqPerf Calculate and run frequencies in ranges of 10 runs and plot versus Runs the performance of the batsman

batsmanRunsLikelihood This function uses K-Means to determine the likelihood of the batsman to get runs

batsmanRunsPredict Predict the runs for the batsman given the Balls Faced and Minutes in crease

batsmanRunsRanges Compute and plot a histogram of the runs scored in ranges of 10

batsmanScoringRateODTT Compute and plot the predicted scoring rate for a One day batsman or Twenty20

battingPerf3d Make a 3D scatter plot of the Runs scored versus the Balls Faced and Minutes at Crease.

bowlerAvgWktsGround This function computes and plot the average wickets in different ground

bowlerAvgWktsOpposition This function computes and plot the average wickets against different opposition

bowlerContributionWonLost Display the bowler's contribution in matches that were won and those that were lost
bowlerCumulativeAvgEconRate
Bowler's cumulative average economy rate

bowlerCumulativeAvgWickets
Bowler's cumulative average wickets

bowlerEconRate
Compute and plot the Mean Economy Rate versus wickets taken

bowlerHistWickets
Plot a histogram of Wicket percentages versus wickets taken

bowlerMovingAverage
Compute and plot the moving average of the wickets taken for a bowler

bowlerPerfForecast
Forecast the bowler performance based on past performances using Holt-Winters forecasting

bowlerPerfHomeAway
This function analyses the performance of the bowler at home and overseas

bowlerWktRateTT
Compute and plot the Mean number of deliveries versus wickets taken

bowlerWktsFreqPercent
Plot the Wickets Frequency as a percentage against wickets taken

bowlerWktsRunsPlot
Compute and plot the runs conceded versus the wickets taken

checkBatsmanInForm
Check whether the batsman is In-Form or Out-Of-Form by looking at his last 10 percent scores

checkBowlerInForm
Check whether the bowler is In-Form or Out-Of-Form by looking at his last 10 percent scores

clean
Create a batsman data frame given the batsman's CSV file

cleanBowlerData
Clean the bowlers data frame

cleanTeamData
Clean the team data for Test, ODI and T20

cricketr-package
Analyze Cricketers and Cricket Teams Based on ESPN Cricinfo Statsguru This package analyzes the performances of cricketers using ESPN Cricinfo Statsguru data. The analysis can be done for Test, ODI and Twenty20 cricket for both batsman & bowlers

devilliers
Data set for AB Devilliers

ganguly
Data set for Sourav Ganguly

gayle
Data set for Chris Gayle

getMatchType
Get the number of the match type viz. for Test, ODI and T20

getPlayerData
Get the player data from ESPN Cricinfo based on specific inputs and store in a file in a given directory

getPlayerDataHA
Return the CSV file and a dataframe of a player's matches along with home/away column

getPlayerDataOD
Get the One day player data from ESPN Cricinfo based on specific inputs and store in a file in
getPlayerDataOppnHA
Return a filtered CSV file for a player against specified opposition, at home/away venues during an interval

getPlayerDataSp
Get the player data along with venue and

getPlayerDataTT
Get the Twenty20 International player data from ESPN Cricinfo based on specific inputs and store in a file in a given directory

getTeamData
Get the data for a team in a match type viz. for Test, ODI and T20

getTeamDataHomeAway
Get the data for a team in a match type viz. for Test, ODI and T20 with the home/overseas/neutral

getTeamNumber
Get the number of the Team

kohli
Data set for Virat Kohli

kohli1
Data set for Virat Kohli

kumble
Data set for Anil Kumble

kumble1
Data set for Anil Kumble

kumblesp
Data set for Anil Kumble

malinga
Data set for Lasith Malinga

malinga1
Data set for Lasith Malinga

maxwell
Data set for Glenn Maxwell

mendis
Data set for Ajantha Mendis

mitchell
Data set for Mitchell Johnson

murali
Data set for Muthiah Muralidharan

narine
Data set for Sunil Narine

percentRuns
Calculate the percent runs in each run range

percentWkts
Calculate the percentage of wickets taken by bowler

plotTimelineofWinsLosses
Plot the time line of wins/losses/draw/tied etc for a Team in Test, ODI or T20

relativeBatsmanCumulativeAvgRuns
Relative batsman's cumulative average runs

relativeBatsmanCumulativeStrikeRate
Relative batsmen cumulative average strike rate

relativeBatsmanSR
Calculate and plot the relative Mean Strike Rate (SR) for each batsman

relativeBatsmanSRODTT
Calculate and plot the relative Mean Strike Rate (SR) for each batsman for ODI or Twenty20 batsmen

relativeBowlerCumulativeAvgEconRate
Relative Bowler's cumulative average economy rate

relativeBowlerCumulativeAvgWickets
Relative bowlers cumulative average wickets

relativeBowlingER
Compute and plot the relative mean Economy Rate(ER) of the bowlers
relativeBowlingERODTT  Compute and plot the relative mean Economy Rate (ER) of the bowlers for ODI or Twenty20
relativeBowlingPerf  Plot the relative performances of bowlers
relativeRunsFreqPerf  Calculate and compute the relative run frequencies of a list of cricketers
relativeRunsFreqPerfODTT  Calculate and compute the relative run frequencies of a list of cricketers
relativeWktRateTT  Compute and plot the relative Mean Wicket Rate of the bowlers in Twenty20 International
sehwag  Data set for Virendar Sehwag
sehwag1  Data set for Virendar Sehwag
sehwag2  Data set for Virendar Sehwag
southee  Data set for Tim Southee
steyn  Data set for Dale Steyn
teamWinLossStatusAtGrounds  Compute the wins/losses/draw/tied etc for a Team in Test, ODI or T20 at venues
teamWinLossStatusVsOpposition  Compute the wins/losses/draw/tied etc for a Team in Test, ODI or T20 against opposition
tendulkar  Data set for Sachin Tendulkar
tendulkar1  Data set for Sachin Tendulkar
tendulkar2  Data set for Sachin Tendulkar
tendulkarsp  Data set for Sachin Tendulkar
warne  Data set for Shane Warne

Tools for analyzing performances of cricketers based on stats in ESPN Cricinfo Statsguru. The toolset can be used for analysis of Tests, ODIs and Twenty20 matches of both batsmen and bowlers.

Author(s)

Tinniam V Ganesh Tinniam V Ganesh Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>
Tinniam V Ganesh tvganesh.85@gmail.com

References

Details in my post https://gigadom.wordpress.com/2015/07/04/introducing-cricketr-a-r-package-to-analyze-performances-of-cricketers/

See Also

https://www.youtube.com/edit?o=U&video_id=q9uMPFVsXsI

Examples

```r
# Not run:
getPlayerData(profile, opposition="", host="", dir="./data", file="player001.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))
getPlayerDataODI(profile, opposition="", host="", dir = "../", file = "player001.csv")
```
ashwin

Data set for Ravichandran Ashwin

Description

CSV file Ravichandran Ashwin

Usage

data("ashwin")

Format

The format is: chr "ashwin"

Details

CSV file Ravichandran Ashwin

Source

http://www.espncricinfo.com/ci/content/stats/index.html

References

http://www.espncricinfo.com/ci/content/stats/index.html
ashwin1  

*Data set for Ravichander Ashwin*

**Description**
Data set for Ravichander Ashwin

**Usage**
```
data("ashwin1")
```

**Format**
The format is: chr "ashwin1"

**Details**
Data set for Ravichander Ashwin

**Source**
http://www.espncricinfo.com/ci/content/stats/index.html

**References**
http://www.espncricinfo.com/ci/content/stats/index.html

badree  

*Data set for Samuel Badree*

**Description**
CSV file Samuel Badree

**Usage**
```
data("badree")
```

**Format**
The format is: chr "badree"

**Details**
CSV file Samuel Badree
**batsman4s**

**Source**

ESPN Cricinfo Statsguru

**References**

http://www.espncricinfo.com/ci/content/stats/index.html

---

**batsman4s**

*Plot the numbers of 4s against the runs scored by batsman*

**Description**

This function plots the number of 4s against the total runs scored by batsman. A 2nd order polynomial regression curve is also plotted. The predicted number of 4s for 50 runs and 100 runs scored is also plotted.

**Usage**

batsman4s(file, name="A Hookshot")

**Arguments**

- **file**
  
  This is the <batsman>.csv file obtained with an initial getPlayerData()

- **name**
  
  Name of the batsman

**Details**

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVxsI

**Value**

None

**Note**

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

**Author(s)**

Tinniam V Ganesh

**References**

http://www.espncricinfo.com/ci/content/stats/index.html

https://gigadom.wordpress.com/
See Also

batsman6s

Examples

## Not run:

```r
# Get or use the <batsman>.csv obtained with getPlayerData()
#tendulkar <- getPlayerData(35320, dir="..", file="tendulkar.csv", type="batting",
#homeOrAway=c(1,2), result=c(1,2,4))

# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsman4s(pathToFile, "Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory. The
# general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```

batsman4s6s  

Compute and plot a stacked barplot of runs, 4s and 6s

Description

Compute and plot a stacked barplot of percentages of runs in (1s, 2s and 3s), 4s and 6s

Usage

batsman4s6s(frames, names)

Arguments

frames  
List of batsman

names  
Names of batsman

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None
Note
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also
batsmanScoringRateODTT, relativeRunsFreqPerfODTT, batsmanPerfBoxHist

Examples
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerDataODTT()
#sehwag <- getPlayerData(35263, dir="./data", file="sehwag.csv", type="batting",
#homeOrAway=c(1,2), result=c(1,2,4))

# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsman6s(pathToFile, "Sachin Tendulkar")

#Note: This example uses the file tendulkar.csv from the /data directory. However
#you can use any directory as long as the data file exists in that directory.
#The general format is pkg-function(pathToFile, par1,...)

## End(Not run)

batsman6s

Plot the run range against the number of 6s

Description
Compute and plot the number of 6s in the total runs scored by batsman

Usage
batsman6s(file, name="A Hookshot")

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>file</td>
<td>This is the &lt;batsman&gt;.csv file obtained with an initial getPlayerData()</td>
</tr>
<tr>
<td>name</td>
<td>Name of the batsman</td>
</tr>
</tbody>
</table>
batsmanAvgRunsGround

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsman4s

Examples

```r
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(35520, file="tendulkar.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsman65s(pathToFile,"Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```

batsmanAvgRunsGround

`This function computes and plots the Average runs scored in the different grounds played by batsman`

Description

This function computed the Average Runs scored on different pitches and also indicates the number of innings played at these venues
**Usage**

```r
batsmanAvgRunsGround(file, name = "A Latecut")
```

**Arguments**

- `file` This is the `<batsman>.csv` file obtained with an initial `getPlayerData()`
- `name` Name of the batsman

**Details**

More details can be found in my short video tutorial in Youtube [https://www.youtube.com/watch?v=q9uMPFVsXsI](https://www.youtube.com/watch?v=q9uMPFVsXsI)

**Value**

None

**Note**

Maintainer: Tinniam V Ganesh &lt;tvganesh.85@gmail.com&gt;

**Author(s)**

Tinniam V Ganesh

**References**

- [http://www.espncricinfo.com/ci/content/stats/index.html](http://www.espncricinfo.com/ci/content/stats/index.html)
- [https://gigadom.wordpress.com/](https://gigadom.wordpress.com/)

**See Also**

`batsmanDismissals`, `batsmanMovingAverage`, `batsmanPerfBoxHist`

**Examples**

```r
## Not run:
# Get or use the `<batsman>.csv` obtained with `getPlayerData()`
# <- getPlayerData(35320, file="tendulkar.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanAvgRunsGround(pathToFile,"Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,....)

## End(Not run)
```
This function computes and plots the Average runs against different opposition played by batsman.

**Description**

This function computes the mean runs scored by batsman against different opposition.

**Usage**

```r
batsmanAvgRunsOpposition(file, name = "A Latecut")
```

**Arguments**

- `file`: This is the `<batsman>.csv` file obtained with an initial `getPlayerData()`
- `name`: Name of the batsman

**Details**

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

**Value**

None

**Note**

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

**Author(s)**

Tinniam V Ganesh

**References**

- http://www.espnscricinfo.com/ci/content/stats/index.html
- https://gigadom.wordpress.com/

**See Also**

- `batsmanDismissals`, `batsmanMovingAverage`, `batsmanPerfBoxHist`, `batsmanAvgRunsGround`
Examples

```r
# Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(35320, file="tendulkar.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

# retrieve the file path of a data file installed with cricketr
path <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanAvgRunsOpposition(path, "Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.

# End (Not run)
```

---

batsmanContributionWonLost

Display the batsman's contribution in matches that were won and those that were lost

Description

Plot the comparative contribution of the batsman in matches that were won and lost as box plots

Usage

```r
batsmanContributionWonLost(file, name = "A Hitter")
```

Arguments

- `file` : CSV file of batsman from ESPN Cricinfo obtained with getPlayerDataSp()
- `name` : Name of the batsman

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh
batsmanCumulativeAverageRuns

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanMovingAverage batsmanRunsPredict batsmanPerfBoxHist

Examples

## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# tendulkarsp <-getPlayerDataSp(35320, ".","tendulkarsp.csv","batting")
# retrieve the file path of a data file installed with cricketr
pathTofile <- system.file("data", "tendulkarsp.csv", package = "cricketr")
batsmanContributionWonLost(pathTofile,"Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathTofile,par1,...)

## End(Not run)

batsmanCumulativeAverageRuns

Batsman’s cumulative average runs

Description

This function computes and plots the cumulative average runs of a batsman

Usage

batsmanCumulativeAverageRuns(file, name = "A Leg Glance")

Arguments

file Data frame
name Name of batsman

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>
batsmanCumulativeStrikeRate

Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also
batsmanCumulativeStrikeRate bowlerCumulativeAvgEconRate bowlerCumulativeAvgWickets

Examples

```r
## Not run:
# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanCumulativeAverageRuns(pathToFile, "Sachin Tendulkar")

## End(Not run)
```

batsmanCumulativeStrikeRate

_Batsman’s cumulative average strike rate_

Description
This function computes and plots the cumulative average strike rate of a batsman.

Usage

```r
batsmanCumulativeStrikeRate(file, name = "A Leg Glance")
```

Arguments

- **file**: Data frame
- **name**: Name of batsman

Value
None

Note
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)
Tinniam V Ganesh
batsmanDismissals

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanCumulativeAverageRuns bowlerCumulativeAvgEconRate bowlerCumulativeAvgWickets

Examples

## Not run:
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanCumulativeStrikeRate(pathToFile, "Sachin Tendulkar")

## End(Not run)

# batsmanDismissals

Display a 3D Pie Chart of the dismissals of the batsman

Description

Display the dismissals of the batsman (caught, bowled, hit wicket etc) as percentages

Usage

batsmanDismissals(file, name="A Squarecut")

Arguments

file This is the <batsman>.csv file obtained with an initial getPlayerData()
name Name of the batsman

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVxsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh
batsmanMeanStrikeRate

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanMeanStrikeRate, batsmanMovingAverage, batsmanPerfBoxHist

Examples

```r
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(35320, file="tendulkar.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanDismissals(pathToFile, "Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```

batsmanMeanStrikeRate Calculate and plot the Mean Strike Rate of the batsman on total runs scored

Description

This function calculates the Mean Strike Rate of the batsman for each interval of runs scored

Usage

```
batsmanMeanStrikeRate(file, name = "A Hitter")
```

Arguments

- `file` This is the <batsman>.csv file obtained with an initial getPlayerData()
- `name` Name of the batsman

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None
batsmanMovingAverage

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanDismissals, batsmanMovingAverage, batsmanPerfBoxHist batsmanPerfBoxHist

Examples

```r
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(35320, file="tendulkar.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanMeanStrikeRate(pathToFile, "Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```

Description

This function calculates and plots the Moving Average of the batsman in his career

Usage

```
batsmanMovingAverage(file, name="A Squarecut")
```

Arguments

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>file</td>
<td>This is the &lt;batsman&gt;.csv file obtained with an initial getPlayerData()</td>
</tr>
<tr>
<td>name</td>
<td>Name of the batsman</td>
</tr>
</tbody>
</table>
**batsmanPerfBoxHist**

**Details**

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVxsI

**Value**

None

**Note**

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

**Author(s)**

Tinniam V Ganesh

**References**

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

**See Also**

batsmanDismissals, batsmanMeanStrikeRate, batsmanPerfBoxHist

**Examples**

```r
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(35320,file="tendulkar.csv",type="batting", homeOrAway=c(1,2),result=c(1,2,4))

# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanMovingAverage(pathToFile,"Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```

---

**batsmanPerfBoxHist**

Make a boxplot and a histogram of the runs scored by the batsman

**Description**

Make a boxplot and histogram of the runs scored by the batsman. Plot the Mean, Median, 25th and 75th quantile
Usage

batsmanPerfBoxHist(file, name="A Hitter")

Arguments

file This is the <batsman>.csv file obtained with an initial getPlayerData()
name Name of the batsman

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanDismissals, batsmanMeanStrikeRate, batsmanMovingAverage, batsmanPerfBoxHist

Examples

## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(35320, file="tendulkar.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

# retrieve the file path of a data file installed with cricket
pathToFile <- system.file("data", "tendulkar.csv", package = "cricket")
batsman4s(pathToFile,"Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
**batsmanPerfForecast**  
*Forecast the batting performance based on past performances using Holt-Winters forecasting*

---

**Description**
This function forecasts the performance of the batsman based on past performances using Holt-Winters forecasting model.

**Usage**
```
batsmanPerfForecast(file, name="A Squarecut")
```

**Arguments**
- `file` This is the `<batsman>.csv` file obtained with an initial `getPlayerData()`
- `name` Name of the batsman

**Details**
More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

**Value**
None

**Note**
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

**Author(s)**
Tinniam V Ganesh

**References**
- http://www.espncricinfo.com/ci/content/stats/index.html
- https://gigadom.wordpress.com/

**See Also**
batsmanDismissals, batsmanMeanStrikeRate, batsmanMovingAverage, batsmanPerfBoxHist
Examples

```r
## Not run:
# Get or use the <batsman>.csv obtained with get_player_data()
# <- get_player_data(35320, file="tendulkar.csv", type="batting", home_or_away=c(1,2), result=c(1,2,4))

# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanPerfForecast(pathToFile,"Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```

---

batsmanPerfHomeAway  
*This function analyses the performance of the batsman at home and overseas*

### Description

This function plots the runs scored by the batsman at home and overseas.

#### Usage

```r
batsmanPerfHomeAway(file, name = "A Hitter")
```

#### Arguments

- **file**: CSV file of batsman from ESPN Cricinfo obtained with `get_player_data()`
- **name**: Name of the batsman

#### Details

More details can be found in my short video tutorial in YouTube https://www.youtube.com/watch?v=q9uMPFVsXsI

#### Value

None

#### Author(s)

Tinniam V Ganesh

#### References

- [http://www.espncricinfo.com/ci/content/stats/index.html](http://www.espncricinfo.com/ci/content/stats/index.html)
- [https://gigadom.wordpress.com/](https://gigadom.wordpress.com/)
batsmanRunsFreqPerf

See Also

batsmanMovingAverage batsmanRunsPredict batsmanPerfBoxHist bowlerContribution wonLost

Examples

```r
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# tendulkarsp <- getPlayerData(35320,".","tendulkarsp.csv","batting")

# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkarsp.csv", package = "cricketr")
batsmanRunsFreqPerf(pathToFile,"Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```

batsmanRunsFreqPerf Calculate and run frequencies in ranges of 10 runs and plot versus Runs the performance of the batsman

Description

This function calculates frequencies of runs in 10 run buckets and plots this percentage

Usage

batsmanRunsFreqPerf(file, name="A Hookshot")

Arguments

file This is the <batsman>.csv file obtained with an initial getPlayerData()
name Name of the batsman

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>
Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also
batsmanDismissals, batsmanMovingAverage, batsmanPerfBoxHist

Examples

```r
# Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(35320, file="tendulkar.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

# retrieve the file path of a data file installed with cricket
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanRunsFreqPerf(pathToFile, "Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile, par1,...)

## End(Not run)
```

batsmanRunsLikelihood This function uses K-Means to determine the likelihood of the batsman
to get runs

Description
This function used K-Means to get the likelihood of getting runs based on clusters of runs the
batsman made in the past. It uses K-Means for this.

Usage
batsmanRunsLikelihood(file, name = "A Squarecut")

Arguments
- **file** This is the <batsman>.csv file obtained with an initial getPlayerData()
- **name** Name of the batsman

Details
More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI
Value
None

Note
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also
batsmanMovingAverage batsmanRunsPredict battingPerf3d batsmanContributionWonLost

Examples
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(35320, file="tendulkar.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanRunsLikelihood(pathToFile, "Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile.par1,...)

## End(Not run)

### batsmanRunsPredict

**batsmanRunsPredict**

*Predict the runs for the batsman given the Balls Faced and Minutes in crease*

#### Description
Fit a linear regression plane between Runs scored and Minutes in Crease and Balls Faced. This will be used to predict the batsman runs for time in crease and balls faced.

#### Usage
```r
batsmanRunsPredict(file, name="A Coverdrive", newdataframe)
```
batsmanRunsPredict

Arguments

file  This is the <batsman>.csv file obtained with an initial getPlayerData()
name  Name of the batsman
newdataframe  This is a data frame with 2 columns BF(Balls Faced) and Mins(Minutes)

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

Returns a data frame with the predicted runs for the Balls Faced and Minutes at crease

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanMovingAverage  battingPerf3d  batsmanContribution  wonLost

Examples

```r
# Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# tendulkar <- getPlayerData(35320, file="tendulkar.csv", type="batting",
# homeOrAway=c(1,2), result=c(1,2,4))

# Use a single value for BF and Mins
BF <- 30
Mins <- 20

# retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanRunsPredict(pathToFile,"Sachin Tendulkar",newdataframe=data.frame(BF,Mins))

# or give a data frame
#BF <- seq(20,200, length=15)
#Mins <- seq(30,220,length=15)

#values <- batsmanRunsPredict("../cricketr/data/tendulkar.csv","Sachin Tendulkar",
```
Compute and plot a histogram of the runs scored in ranges of 10

Usage

batsmanRunsRanges(file, name="A Hookshot")

Arguments

file This is the <batsman>.csv file obtained with an initial getPlayerData()
name Name of the batsman

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanDismissals, batsmanMovingAverage, batsmanPerfBoxHist
Examples

```r
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(35320, file = "tendulkar.csv", type = "batting", homeOrAway = c(1,2), result = c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
batsmanRunsRanges(pathToFile,"Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```

---

**batsmanScoringRateODTT**

*Compute and plot the predicted scoring rate for a One day batsman or Twenty20*

### Description

This function computes and plots a 2nd order polynomial between the balls faced and runs scored for ODI or Twenty20.

### Usage

```r
batsmanScoringRateODTT(file, name = "A Hookshot")
```

### Arguments

- `file` This is the `<batsman>.csv` file obtained with an initial `getPlayerDataOD()` or `getPlayerTT()`
- `name` Name of the batsman

### Details

More details can be found in my short video tutorial in Youtube [https://www.youtube.com/watch?v=q9uMPFVsXsI](https://www.youtube.com/watch?v=q9uMPFVsXsI)

### Value

None

### Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>
battingPerf3d

Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also
batsmanVs relativeBatsmanSRODTT relativeRunsFreqPerfODTT

Examples

```
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerDataOD() or getPlayerTT()
sehwag <- getPlayerData(35263, dir="./mytest", file="sehwag.csv", type="batting",
# homeOrAway=c(1,2), result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "sehwag.csv", package = "cricketr")
batsmanScoringRateODTT(pathToFile, "Sehwag")

# Note: This example uses the file sehwag.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile, par1, ...)

## End(Not run)
```

```
battingPerf3d Make a 3D scatter plot of the Runs scored versus the Balls Faced and Minutes at Crease.

Description
Make a 3D plot of the Runs scored by batsman vs Minutes in crease and Balls faced. Fit a linear regression plane

Usage
battingPerf3d(file, name="A Hookshot")

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>file</td>
<td>This is the &lt;batsman&gt;.csv file obtained with an initial getPlayerData()</td>
</tr>
<tr>
<td>name</td>
<td>Name of the batsman</td>
</tr>
</tbody>
</table>
```
batttingPerf3d

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVSXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanDismissals, batsmanMeanStrikeRate, batsmanMovingAverage, batsmanPerfBoxHist

Examples

```r
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# tendulkar<- getPlayerData(35320, file="tendulkar.csv", type="batting",
# homeOrAway=c(1,2), result=c(1,2,4))

# Retrieve the file path of a data file installed with cricket
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
battingPerf3d(pathToFile,"Sachin Tendulkar")

# Note: The above example uses the file tendulkar.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

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

This function computes and plot the average wickets in different ground

**Description**

This function computes the average wickets taken against different grounds by the bowler. It also shows the number innings at each venue

**Usage**

```r
bowlerAvgWktsGround(file, name = "A Chinaman")
```

**Arguments**

- `file`  
  This is the `<bowler>.csv` file obtained with an initial `getPlayerData()`

- `name`  
  Name of the bowler

**Details**

More details can be found in my short video tutorial in Youtube [https://www.youtube.com/watch?v=q9uMPFVsXsI](https://www.youtube.com/watch?v=q9uMPFVsXsI)

**Value**

None

**Note**

Maintainer: Tinniam V Ganesh `<tvganesh.85@gmail.com>`

**Author(s)**

Tinniam V Ganesh

**References**

- [http://www.espncricinfo.com/ci/content/stats/index.html](http://www.espncricinfo.com/ci/content/stats/index.html)
- [https://gigadom.wordpress.com/](https://gigadom.wordpress.com/)

**See Also**

- `bowlerWktsFreqPercent`
- `relativeBowlingER`
- `relativeBowlingPerf`
Examples

```r
## Not run:
# Get or use the <bowler>.csv obtained with getPlayerData()
# a <- getPlayerData(30176, file="kumble.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
c
pathToI <- system.file("data", "kumble.csv", package = "cricketr")
c
bowlerAvgWktsGround(pathToI, "Anil Kumble")
c
# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToI, par1,...)

## End(Not run)
```

bowlerAvgWktsOpposition

This function computes and plot the average wickets against different opposition

Description

This function computes the average wickets taken against different opposition by the bowler. It also shows the number innings against each opposition

Usage

bowlerAvgWktsOpposition(file, name = "A Chinaman")

Arguments

- `file` This is the <bowler>.csv file obtained with an initial getPlayerData()
- `name` Name of the bowler

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh
bowlerContributionWonLost

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlerWktsFreqPercent relativeBowlingER relativeBowlingPerf bowlerAvgWktsGround

Examples

```r
## Not run:
# Get or use the <bowler>.csv obtained with getPlayerData()
# a <- getPlayerData(30176, file = "kumble.csv", type = "batting", homeOrAway = c(1,2), result = c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
pathtoFile <- system.file("data", "kumble.csv", package = "cricketr")
bowlerAvgWktsOpposition(pathtoFile, "Anil Kumble")

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory
# The general format is pkg-function(pathtoFile,par1,...)

## End(Not run)
```

### bowlerContributionWonLost

Display the bowler's contribution in matches that were won and those that were lost

#### Description

Plot the comparative contribution of the bowler in matches that were won and lost as box plots

#### Usage

```r
bowlerContributionWonLost(file, name = "A Doosra")
```

#### Arguments

- `file` CSV file of bowler from ESPN Cricinfo obtained with getPlayerDataSp()
- `name` Name of the bowler

#### Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

#### Value

None
bowlernCumulativeAvgEconRate

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlernMovingAverage, bowlernPerfforecast, checkBowlerInForm

Examples

## Not run:
# Get or use the <bowler>.csv obtained with getPlayerDataSp()
#kumbleSp <- getPlayerDataSp(30176, ".","kumblesp.csv","bowling")
# Retrieve the file path of a data file installed with cricketer
pathToFile <- system.file("data", "kumblesp.csv", package = "cricketer")
bowlerCumulativeContributionWonLost(pathToFile,"Anil Kumble")

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)

bowlernCumulativeAvgEconRate

Bowler's cumulative average economy rate

Description

This function computes and plots the cumulative average economy rate of a bowler

Usage

bowlernCumulativeAvgEconRate(file,name)

Arguments

file Data frame
name Name of batsman
bowlerCumulativeAvgWickets

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanCumulativeAverageRuns bowlerCumulativeAvgWickets batsmanCumulativeStrikeRate

Examples

## Not run:
pathToFile <- system.file("data", "kumble.csv", package = "cricketr")
bowlerCumulativeAvgEconRate(pathToFile, "Anil Kumble")

## End(Not run)

---

bowlerCumulativeAvgWickets

Bowler’s cumulative average wickets

Description

This function computes and plots the cumulative average wickets of a bowler

Usage

bowlerCumulativeAvgWickets(file, name)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>file</td>
<td>Data frame</td>
</tr>
<tr>
<td>name</td>
<td>Name of batsman</td>
</tr>
</tbody>
</table>

Value

None
**Note**

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

**Author(s)**

Tinniam V Ganesh

**References**

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

**See Also**

batsmanCumulativeAverageRuns bowlerCumulativeAvgEconRate batsmanCumulativeStrikeRate

**Examples**

```r
## Not run: )
pathToFile <- system.file("data", "kumble.csv", package = "cricketr")
bowlerCumulativeAvgWickets(pathToFile,"Anil Kumble")

## End(Not run)
```

---

*bowlerEconRate*  
*Compute and plot the Mean Economy Rate versus wickets taken*

**Description**

This function computes the mean economy rate for the wickets taken and plot this

**Usage**

*bowlerEconRate*(file, name = "A Bowler")

**Arguments**

- **file**  
  This is the <bowler>.csv file obtained with an initial getPlayerData()

- **name**  
  Name of the bowler

**Details**

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

**Value**

None
**bowlerHistWickets**

**Note**
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

**Author(s)**
Tinniam V Ganesh

**References**
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

**See Also**
bowlerWktsFreqPercent relativeBowlingER relativeBowlingPerf

**Examples**
```r
## Not run:
# Get or use the <bowler>.csv obtained with getPlayerData()
# kumble <- getPlayerData(30176, dir=".", file="kumble.csv", type="batting",
# homeOrAway=c(1,2),result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "kumble.csv", package = "cricketr")
bowlerEconRate(pathToFile,"Anil Kumble")

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```

---

**bowlerHistWickets**

*Plot a histogram of Wicket percentages versus wickets taken*

**Description**
This function computes the percentages of wickets taken versus wickets in the bowler’s career

**Usage**

```r
bowlerHistWickets(file,name="A Googly")
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>file</td>
<td>This is the &lt;bowler&gt;.csv file obtained with an initial getPlayerData()</td>
</tr>
<tr>
<td>name</td>
<td>Name of the bowler</td>
</tr>
</tbody>
</table>
Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlerWktsFreqPercent relativeBowlingER relativeBowlingPerf

Examples

```r
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(30176,file="kumble.csv",type="bowling", homeOrAway=c(1,2),result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "kumble.csv", package = "cricketr")
bowlerHistWickets(pathToFile, "Anil Kumble")

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```
bowlerMovingAverage  

Compute and plot the moving average of the wickets taken for a bowler

Description

This function plots the wickets taken by a bowler as a time series and plots the moving average over the career

Usage

bowlernovingAverage(file, name = "A Doosra")

Arguments

- **file**: This is the <bowler>.csv file obtained with an initial getPlayerData()
- **name**: Name of the bowler

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlernWktsFreqPercent relativeBowlingER relativeBowlingPerf
Examples

```r
## Not run:
# Get or use the <bowler>.csv obtained with getPlayeData()
# a <- getPlayeData(30176, file = "kumble.csv", type = "batting", homeOrAway = c(1, 2), result = c(1, 2, 4))

# Retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "kumble.csv", package = "cricketr")
bowlerMovingAverage(pathToFile, "Anil Kumble")

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.

## End(Not run)
```

---

**bowlerPerfForecast**

*Forecast the bowler performance based on past performances using Holt-Winters forecasting*

**Description**

This function forecasts the performance of the bowler based on past performances using Holt-Winters forecasting model.

**Usage**

```
bowlerPerfForecast(file, name = "A Googly")
```

**Arguments**

- **file**: This is the <bowler>.csv file obtained with an initial getPlayerData()
- **name**: Name of the bowler

**Details**

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

**Value**

None

**Note**

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

**Author(s)**

Tinniam V Ganesh
bowlerPerfHomeAway

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlerEconRate, bowlerMovingAverage, bowlerContributionWonLost

Examples

```r
## Not run:
# Get or use the <bowler>.csv obtained with getPlayerData()
# a <- getPlayerData(30176, file = "kumble.csv", type = "batting", homeOrAway = c(1, 2), result = c(1, 2, 4))

# Retrieve the file path of a data file installed with cricketr
pathtofile <- system.file("data", "kumble.csv", package = "cricketr")
bowlerPerfForecast(pathtofile, "Anil Kumble")

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathtofile,par1,...)

## End(Not run)
```

bowlerPerfHomeAway

This function analyses the performance of the bowler at home and oversea

Description

This function plots the Wickets taken by the batsman at home and overseas

Usage

```r
bowlerPerfHomeAway(file, name = "A Googly")
```

Arguments

- `file`  
  CSV file of the bowler from ESPN Cricinfo (for e.g. Kumble's profile no: 30176)
- `name`  
  Name of bowler

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None
bowlerWktRateTT

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlerMovingAverage bowlerPerfForecast checkBowlerInForm bowlerContribution wonLost

Examples

```r
## Not run:
# Get or use the <bowler>.csv file obtained with getPlayerDataTT()
#kumbleSp <- getPlayerDataSp(30176, ".", "kumblesp.csv", "bowling")

# Retrieve the file path of a data file installed with cricketr
path <- system.file("data", "kumblesp.csv", package = "cricketr")
bowlerPerfHomeAway(path, "Anil Kumble")

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.

## End(Not run)
```

bowlerWktRateTT  

*Compute and plot the Mean number of deliveries versus wickets taken*

Description

This function computes and plots the Mean number of deliveries versus wickets taken for bowlers in Twenty20 International

Usage

```r
bowlerWktRateTT(file, name = "A Bowler")
```

Arguments

- `file`: This is the `<bowler>.csv` file obtained with an initial getPlayerDataTT()
- `name`: Name of the bowler
bowlervWktRateTT

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlervWktsFreqPercent relativeBowlingER relativeBowlingPerf

Examples

```r
## Not run:
# Get or use the <bowler>.csv obtained with getPlayerData()
# a <- getPlayerDataTT(26421,dir=".",file="ashwin.csv",type="bowling",
# homeOrAway=c(1,2,3), result=c(1,2,3,5))

# Retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "ashwin.csv", package = "cricketr")
bowlervWktRateTT(pathToFile,"R Ashwin")

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```
**bowlerWktsFreqPercent**  
*Plot the Wickets Frequency as a percentage against wickets taken*

**Description**

This function calculates the Wickets frequency as a percentage of total wickets taken and plots this against the wickets taken.

**Usage**

```r
bowlerWktsFreqPercent(file, name="A Bowler")
```

**Arguments**

- `file`: This is the `<bowler>.csv` file obtained with an initial `getPlayerData()`
- `name`: Name of the bowler

**Details**

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

**Value**

None

**Note**

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

**Author(s)**

Tinniam V Ganesh

**References**

http://www.espncricinfo.com/ci/content/stats/index.html  
https://gigadom.wordpress.com/

**See Also**

`bowlerWktsFreqPercent` `relativeBowlingER` `relativeBowlingPerf`
Examples

```r
## Not run:
# Get or use the <bowler>.csv obtained with getPlayerData()
# a <- getPlayerData(30176, file = "kumble.csv", type = "batting", homeOrAway = c(1, 2), result = c(1, 2, 4))

# Retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "kumble.csv", package = "cricketr")
bowlerWktsFreqPercent(pathToFile, "Anil Kumble")

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile, par1,...)

## End(Not run)
```

bowlervWktsRunsPlot  Compute and plot the runs conceded versus the wickets taken

Description

This function creates boxplots on the runs conceded for wickets taken for the bowler

Usage

```r
bowlervWktsRunsPlot(file, name = "A Googly")
```

Arguments

- `file` This is the <bowler>.csv file obtained with an initial getPlayerData()
- `name` Name of the bowler

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh
checkBatsmanInForm

Check whether the batsman is In-Form or Out-Of-Form by looking at his last 10 percent scores

Description

This function checks whether the batsman is In-Form or Out-Of-Form by doing hypothesis testing and generating a p-value. The last 10 percent of runs scored (sample) are used as a sample against the rest 90 percent of runs scored (population) by the batsman. A significance value of 0.05 is used. The lower tail is checked. The NULL hypothesis is that the batsman is In-Form with the sample mean being within 95 percent confidence interval. If the sample mean is outside this 95 percent range and the p-value is less than the significance value the batsman is considered to be Out-Of-Form.

Usage

checkBatsmanInForm(file, name = "A Hitter", alpha = 0.05)

Arguments

- `file`: This is the <batsman>.csv file obtained with an initial getPlayerData().
- `name`: Name of the batsman.
- `alpha`: Significance value.
checkBowlerInForm

Details
More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value
None

Note
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also
batsmanDismissals, batsmanMeanStrikeRate, batsmanMovingAverage, batsmanPerfBoxHist

Examples

```r
# Not run:

# Retrieve the file path of a data file installed with cricket
pathToFile <- system.file("data", "tendulkar.csv", package = "cricket")
checkBatsmanInForm(pathToFile,"Sachin Tendulkar")

#Note: This example uses the file tendulkar.csv from the /data directory. However
#you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
```

checkBowlerInForm Check whether the bowler is In-Form or Out-Of-Form by looking at his last 10 percent scores

Description
This function checks whether the bowler is In-Form or Out-Of-Form by doing hypothesis testing and generating a p-value. The last 10 percent of runs scored (sample) are used as a sample against the rest 90 percent of runs scored (population) by the bowler. A significance value of 0.05 is used. The lower tail is checked. The NULL hypothesis is that the bowler is In-Form with the sample mean being within 95 percent confidence interval. If the sample mean is outside this 95 percent range and the p-value is less than the significance value the bowler is considered to be Out-Of-Form
Usage

checkBowlerInForm(file, name = "A N Inswinger", alpha = 0.05)

Arguments

file This is the <bowler>.csv file obtained with an initial getPlayerData()
name Name of the bowler
alpha Significance value

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlerMovingAverage batsmanPerfForecast bowlerContributionWonLost

Examples

## Not run:
# Get or use the <bowler>.csv obtained with getPlayerData()
# a <- getPlayerData(30176, file="kumble.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "kumble.csv", package = "cricketr")
checkBowlerInForm(pathToFile, "Anil Kumble")

#Note: This example uses the file kumble.csv from the /data directory. However
#you can use any directory as long as the data file exists in that directory.
# The general format is pkg-function(pathToFile,par1,...)

## End(Not run)
clean

Create a batsman data frame given the batsman’s CSV file

Description

The function removes rows from the batsman dataframe where the batsman did not bat (DNB) or the team did not bat (TDNB). Converts not outs '*' (97*, 128*) to 97,128 by stripping the '*' character. It picks all the complete cases and returns the data frame.

Usage

clean(file)

Arguments

file CSV file with the batsman data obtained with getPlayerData

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

Returns the cleaned batsman dataframe

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References


See Also

cleanBowlerData getPlayerData batsman4s batsmanMovingAverage
Examples

```r
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerData()
# <- getPlayerData(35320, file = "tendulkar.csv", type = "batting", homeOrAway = c(1, 2), result = c(1, 2, 4))

# clean the dataframe
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
clean(pathToFile)

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.
## End(Not run)
```

---

cleanBowlerData — Clean the bowlers data frame

### Description

Clean the bowler's CSV file and remove rows DNB(Did not bowl) & TDNB (Team did not bowl). Also normalize all 8 ball over to a 6 ball over for earlier bowlers.

### Usage

```r
cleanBowlerData(file)
```

### Arguments

- **file** — The <bowler>.csv file

### Details

More details can be found in my short video tutorial in Youtube: https://www.youtube.com/watch?v=q9uMPFVsXsI

### Value

A cleaned bowler data frame with complete cases

### Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

### Author(s)

Tinniam V Ganesh
cleanTeamData

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also
clean

Examples

```r
## Not run:

# Get bowling data and store in file for future
# kumble <- getPlayerData(30176, dir="./mytest", file="kumble.csv", type="bowling",
# homeOrAway=c(1), result=c(1,2))

pathToFile <- system.file("data", "kumble.csv", package = "cricketr")
cleanBowlerData(pathToFile)

# Note: This example uses the file kumble.csv from the /data directory. However
# you can use any directory as long as the data file exists in that directory.

## End(Not run)
```

cleanTeamData  
**Clean the team data for Test, ODI and T20**

Description

This function cleans the team data for Test, ODI and T20

Usage

cleanTeamData(df, matchType)

Arguments

df  
Data frame

matchType  
Match type - Test, ODI, T20

Value

The cleaned Data frame

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>
Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.in/

See Also
teamWinLossStatusVsOpposition teamWinLossStatusAtGrounds plotTimelineofWinsLosses

Examples
```r
## Not run:
# Get the team data for India for Tests
df <- getTeamDataHomeAway(file="india.csv", teamName="India", matchType='Test')
df1 <- cleanTeamData(df,"Test")

## End(Not run)
```

devilliers Data set for AB Devilliers

Description
Data set for AB Devilliers

Usage
data("devilliers")

Format
The format is: chr "devilliers"

Details
Data set for AB Devilliers

Source
http://www.espncricinfo.com/ci/content/stats/index.html

References
http://www.espncricinfo.com/ci/content/stats/index.html
Calculate the mean Economy Rate

Description

Calculate the mean Economy Rate

Usage

ER(file)

Arguments

file Input

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/
Data set for Sourav Ganguly

**Description**

Data set for Sourav Ganguly

**Usage**

```r
data("ganguly")
```

**Format**

The format is: chr "ganguly"

**Details**

Data set for Sourav Ganguly

**Source**

http://www.espncricinfo.com/ci/content/stats/index.html

**References**

http://www.espncricinfo.com/ci/content/stats/index.html

Data set for Chris Gayle

**Description**

Data set for Chris Gayle

**Usage**

```r
data("gayle")
```

**Format**

The format is: chr "gayle"

**Details**

Data set for Chris Gayle
getMatchType

Source
http://www.espncricinfo.com/ci/content/stats/index.html

References
http://www.espncricinfo.com/ci/content/stats/index.html

getMatchType  Get the number of the match type viz. for Test, ODI and T20

Description
This function returns the number of the match type

Usage
getMatchType(matchType)

Arguments
matchType  The match type - Test, ODI or T20

Value
The numerical value of match type

Note
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.in/

See Also
teamWinLossStatusVsOpposition teamWinLossStatusAtGrounds plotTimelineofWinsLosses
getPlayerData

Get the player data from ESPN Cricinfo based on specific inputs and store in a file in a given directory

Description

Get the player data given the profile of the batsman. The allowed inputs are home, away or both and won, lost or draw of matches. The data is stored in a <player>.csv file in a directory specified. This function also returns a data frame of the player

Usage

getPlayerData(profile, opposition="", host="", dir="./data", file="player001.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

Arguments

profile This is the profile number of the player to get data. This can be obtained from http://www.espncricinfo.com/ci/content/player/index.html. Type the name of the player and click search. This will display the details of the player. Make a note of the profile ID. For e.g For Sachin Tendulkar this turns out to be http://www.espncricinfo.com/india/content/player/35320.html. Hence the profile for Sachin is 35320

opposition The numerical value of the opposition country e.g. Australia, India, England etc. The values are Australia:2, Bangladesh:25, England:1, India:6, New Zealand:5, Pakistan:7, South Africa:3, Sri Lanka:8, West Indies:4, Zimbabwe:9

host The numerical value of the host country e.g. Australia, India, England etc. The values are Australia:2, Bangladesh:25, England:1, India:6, New Zealand:5, Pakistan:7, South Africa:3, Sri Lanka:8, West Indies:4, Zimbabwe:9

dir Name of the directory to store the player data into. If not specified the data is stored in a default directory "./data". Default="./data"

file Name of the file to store the data into for e.g. tendulkar.csv. This can be used for subsequent functions. Default="player001.csv"

type type of data required. This can be "batting" or "bowling"

homeOrAway This is vector with either 1,2 or both. 1 is for home 2 is for away

result This is a vector that can take values 1,2,4. 1 - won match 2- lost match 4- draw
getPlayerData

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

Returns the player's dataframe

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

g getPlayerDataSp

Examples

```
## Not run:
# Both home and away. Result = won,lost and drawn
tendulkar <- getPlayerData(35320, dir="../cricketr/data", file="tendulkar1.csv", type="batting", homeOrAway=c(1,2),result=c(1,2,4))

# Only away. Get data only for won and lost innings
tendulkar <- getPlayerData(35320, dir="../cricketr/data", file="tendulkar2.csv", type="batting",homeOrAway=c(2),result=c(1,2))

# Get bowling data and store in file for future
kumble <- getPlayerData(30176, dir="../cricketr/data",file="kumble1.csv", type="bowling",homeOrAway=c(1),result=c(1,2))

#Get the Tendulkar's Performance against Australia in Australia
tendulkar <- getPlayerData(35320, opposition = 2, host=2,dir=".", file="tendulkarVsAusInAus.csv",type="batting")

## End(Not run)
```
getPlayerDataHA

Return the CSV file and a dataframe of a player’s matches along with home/away column

Description

This function saves the players data as a CSV file and also returns a data frame. A new column home/away/neutral is added

Usage

getPlayerDataHA(profileNo, tdir=".", tfile="player001.csv", type="batting", matchType="Test")

Arguments

profileNo The profile number of the player
tdir The name of the directory to save the CSV file	tfile The name of the CSV file
type This parameter should be 'batting' for batsman data and 'bowling' for bowlers
matchType Match type - Test, ODI or T20

Value

dataframe

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.in/

See Also

teamWinLossStatusVsOpposition batsman4s
getPlayerDataOD

Examples

```r
## Not run:
# Get data for Tendulkar
df=getPlayerDataHA(profileNo=35320, tfile="tendulkarHA.csv")
# Get the bowling data for Jadeja in ODIs
df=getPlayerDataHA(profileNo=234675, tfile="jadejaODIHA.csv", type="bowling", matchType='ODI')
# Get the data for Kohli in T20s for batting
df=getPlayerDataHA(profileNo=253802, tfile="kohliT20HA.csv", matchType="T20")
```

## End(Not run)

getPlayerDataOD  Get the One day player data from ESPN Cricinfo based on specific inputs and store in a file in a given directory

Description

Get the player data given the profile of the batsman. The allowed inputs are home, away or both and won, lost or draw of matches. The data is stored in a <player>.csv file in a directory specified. This function also returns a data frame of the player.

Usage

```r
getPlayerDataOD(profile, opposition="", host="", dir="..", file = "player001.csv", type = "batting", homeOrAway = c(1, 2, 3), result = c(1, 2, 3, 5))
```

Arguments

- **profile**: This is the profile number of the player to get data. This can be obtained from http://www.espncricinfo.com/ci/content/player/index.html. Type the name of the player and click search. This will display the details of the player. Make a note of the profile ID. For e.g For Virender Sehwag this turns out to be http://www.espncricinfo.com/india/content/player/35263.html. Hence the profile for Sehwag is 35263

- **opposition**: The numerical value of the opposition country e.g. Australia, India, England etc. The values are Australia: 2, Bangladesh: 25, Bermuda: 12, England: 1, Hong Kong: 19, India: 6, Ireland: 29, Netherlands: 15, New Zealand: 5, Pakistan: 7, Scotland: 30, South Africa: 3, Sri Lanka: 8, United Arab Emirates: 27, West Indies: 4, Zimbabwe: 9; Africa XI: 405 Note: If no value is entered for opposition then all teams are considered

- **host**: The numerical value of the host country e.g. Australia, India, England etc. The values are Australia: 2, Bangladesh: 25, England: 1, India: 6, Ireland: 29, Malaysia: 16, New Zealand: 5, Pakistan: 7, Scotland: 30, South Africa: 3, Sri Lanka: 8, United Arab Emirates: 27, West Indies: 4, Zimbabwe: 9 Note: If no value is entered for host then all host countries are considered

- **dir**: Name of the directory to store the player data into. If not specified the data is stored in a default directory "./data". Default="../data"
file | Name of the file to store the data into for e.g. tendulkar.csv. This can be used for subsequent functions. Default="player001.csv"
---|---
type | type of data required. This can be "batting" or "bowling"
homeOrAway | This is vector with either or all 1,2, 3. 1 is for home 2 is for away, 3 is for neutral venue
result | This is a vector that can take values 1,2,3,5. 1 - won match 2- lost match 3-tied 5- no result

Details
More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value
Returns the player's dataframe

Note
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also
getPlayerDataSp getPlayerData

Examples
```r
## Not run:
# Both home and away. Result = won,lost and drawn
sehwag <- getPlayerDataOD(35263,dir="../cricketr/data", file="sehwag1.csv", type="batting", homeOrAway=c(1,2),result=c(1,2,3,5))

# Only away. Get data only for won and lost innings
sehwag <- getPlayerDataOD(35263,dir="../cricketr/data", file="sehwag2.csv",
  type="batting",homeOrAway=c(2),result=c(1,2))

# Get bowling data and store in file for future
malinga <- getPlayerData(49758,dir="../cricketr/data",file="malinga1.csv",
  type="bowling")

# Get Dhoni's ODI record in Australia against Australia
```
getPlayerDataOppnHA

Return a filtered CSV file for a player against specified opposition, at home/away venues during an interval

Description

This function saves the filtered players data as a CSV file for matches against specified opposition, at home/away venues for a specified interval

Usage

```r
getPlayerDataOppnHA(infile, outfile, dir = ".", opposition = c("all"), homeOrAway = c("all"), startDate = "2001-01-01", endDate = "2019-01-01")
```

Arguments

- `infile`: The input CSV file for the player
- `outfile`: The name of the output CSV file which is filtered file based on opposition, home/away for a period
- `dir`: The name of the directory to store output file
- `opposition`: This is a vector of opposition for e.g. c("Australia", "India", "South Africa"). Default is c("all")
- `homeOrAway`: This is a vector of "home", "away" or "neutral". Default is c("all")
- `startDate`: This is a date from which you would like the data for player "yyyy-mm-dd" format
- `endDate`: This is an end date till which you need data to be filtered of "yyyy-mm-dd" format

Value
dataframe

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh
References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.in/

See Also

teamWinLossStatusVsOpposition batsman4s6s

Examples

## Not run:
# Get data for Kohli against England in 'away' venues in the year 2014
df=getPlayerDataOppnHA(infile="kohliHA.csv",outfile="kohliEAN2014.csv",
   opposition=c("England","Australia","New Zealand"),
   homeOrAway="away",startDate="2014-01-01",endDate="2015-01-01")

# Get data for Tendulkar between 2001 and 2002
df1=getPlayerDataOppnHA(file,outfile="tendulkar2001.csv",startDate="2001-01-01",
   endDate="2002-01-01")

## End(Not run)

getPlayerDataSp

Get the player data along with venue and

Description

This function is a specialized version of getPlayer Data. This function gets the players data along with details on matches' venue (home/abroad) and the result of match (won, lost, drawn) as 2 separate columns (ha & result). The column ha has 1: home and 2: overseas. The column result has values 1: won, 2: lost and : drawn match

Usage

getPlayerDataSp(profileNo, tdir = ".\data", tfile = "player001.csv",
ttype = "batting")

Arguments

profileNo This is the profile number of the player to get data. This can be obtained from http://www.espncricinfo.com/ci/content/player/index.html. Type the name of the player and click search. This will display the details of the player. Make a note of the profile ID. For e.g For Sachin Tendulkar this turns out to be http://www.espncricinfo.com/india/content/player/35320.html. Hence the profile for Sachin is 35320
getPlayerDataSp

tdir Name of the directory to store the player data into. If not specified the data is stored in a default directory "/data". Default="/data"
tfile Name of the file to store the data into for e.g. tendulkar.csv. This can be used for subsequent functions. Default="player001.csv"
ttype type of data required. This can be "batting" or "bowling"

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

Returns the player’s dataframe along with the homeAway and the result columns

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

getPlayerData

Examples

## Not run:
# Only away. Get data only for won and lost innings
tendulkar <- getPlayerDataSp(35320, tdir="../cricketr/data", tfile="tendulkarsp.csv", ttype="batting")

# Get bowling data and store in file for future
kumble <- getPlayerDataSp(30176, tdir="../cricketr/data", tfile="kumblesp.csv", ttype="bowling")

## End(Not run)
getPlayerDataTT Get the Twenty20 International player data from ESPN Cricinfo based on specific inputs and store in a file in a given directory~

Description

Get the Twenty20 player data given the profile of the batsman/bowler. The allowed inputs are home, away, neutralboth and won, lost, tied or no result of matches. The data is stored in a <player>.csv file in a directory specified. This function also returns a data frame of the player

Usage

getPlayerDataTT(profile, opposition = "", host = ", dir = ".\data", file = "player001.csv", type = "batting", homeOrAway = c(1, 2, 3), result = c(1, 2, 3, 5))

Arguments

profile This is the profile number of the player to get data. This can be obtained from http://www.espncricinfo.com/ci/content/player/index.html. Type the name of the player and click search. This will display the details of the player. Make a note of the profile ID. For e.g. For Virat Kohli this turns out to be 253802 http://www.espncricinfo.com/india/content/player/35263.html. Hence the profile for Sehwag is 35263

opposition The numerical value of the opposition country e.g. Australia, India, England etc. The values are Afghanistan: 40, Australia: 2, Bangladesh: 25, England: 1, Hong Kong: 19, India: 6, Ireland: 29, New Zealand: 5, Pakistan: 7, Scotland: 30, South Africa: 3, Sri Lanka: 8, United Arab Emirates: 27, West Indies: 4, Zimbabwe: 9; Note: If no value is entered for opposition then all teams are considered

dir Name of the directory to store the player data into. If not specified the data is stored in a default directory ".\data". Default = "\data"

file Name of the file to store the data into for e.g. kohli.csv. This can be used for subsequent functions. Default = "player001.csv"

type type of data required. This can be "batting" or "bowling"

homeOrAway This is vector with either or all 1,2, 3. 1 is for home 2 is for away, 3 is for neutral venue

result This is a vector that can take values 1,2,3,5. 1 - won match 2 - lost match 3-tied 5- no result

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFvxsXI
getTeamData

Value

Returns the player’s dataframe

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlerWktRateTT getPlayerData

Examples

```r
## Not run:
# Only away. Get data only for won and lost innings
kohli <- getPlayerDataTT(253802,dir="../cricket/data", file="kohli1.csv", type="batting")

# Get bowling data and store in file for future
ashwin <- getPlayerDataTT(26421,dir="../cricket/data",file="ashwin1.csv", type="bowling")

kohli <-getPlayerDataTT(253802,opposition = 2,host=2,dir="../cricket/data", file="kohli1.csv",type="batting")

## End(Not run)
```

getTeamData

Get the data for a team in a match type viz for Test, ODI and T20

Description

This function returns team data as a CSV file and/or a dataframe for Test, ODI and T20

Usage

```r
getTeamData(dir=".",file="team@01.csv",matchType="Test", homeOrAway=c(1,2,3),result=c(1,2,3,4),teamView="bat",save=FALSE,teamName)
```
Arguments

dir  The directory where the team data CSV file be saved
file  The name of the CSV file to save to
matchType  The match type - Test, ODI , T20
homeOrAway  Whether the data has to be got for home-1, away(overseas)-2 or neutral -3
result  The result of the match for which data is to be saved - won-1, lost -2, tied-3, draw-4
teamView  This can be 'bat' - batting team or 'bowl' - bowling team
save  This can be set as TRUE or FALSE
teamName  This is team name

Value

The required data frame

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.in/

See Also

teamWinLossStatusVsOpposition teamWinLossStatusAtGrounds plotTimelineofWinsLosses

Examples

```r
## Not run:
#Get the team data for India for Tests
df=getTeamData(dir="", file="australia.csv", matchType="Test", homeOrAway=c(1,2,3),
      result=c(1,2,3, 4),teamView='bat',teamName="Australia")

## End(Not run)
```
getTeamDataHomeAway

Get the data for a team in a match type viz for Test, ODI and T20 with the home/overseas/neutral

Description

This function returns team data as a CSV file and/or a dataframe for Test, ODI and T20 with an additional column showing home, away or neutral venue where the match was played.

Usage

getTeamDataHomeAway(dir=".",teamView="bat",matchType="Test",file="team001HA.csv", save=TRUE,teamName)

Arguments

dir The directory where the team data CSV file be saved

teamView Team view can be either 'bat' (batting team) or 'bowl' (bowling team)

matchType The match type - Test, ODI , T20

file The name of te file to save to

save This can be TRUE or FALSE

teamName Team name is the team namely - Australia, India, England etc

Value

The required data frame

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.in/

See Also

teamWinLossStatusVsOpposition teamWinLossStatusAtGrounds plotTimelineofWinsLosses
getTeamNumber

Examples

## Not run:
Get the team data for India for Tests

getTeamDataHomeAway(teamName="India", file="india.csv")

## End(Not run)

---

getTeamNumber  \hspace{1cm} \textit{Get the number of the Team}

---

Description

This function returns the number of the Team for which analysis is to be done

Usage

getTeamNumber(teamName, matchType)

Arguments

- \texttt{teamName} \hspace{1cm} The name of the team e.g Australia, India, Ghana etc
- \texttt{matchType} \hspace{1cm} The match type - Test, ODI or T20

Value

The numerical value of the team

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.in/

See Also

teamWinLossStatusVsOpposition teamWinLossStatusAtGrounds plotTimelineOfWinsLosses
## Examples

```r
## Not run:
# Get the team data for India for Tests

teamNi <- getTeamNumber(teamName="India",matchType="Test")

## End(Not run)
```

### kohli

*Data set for Virat Kohli*

## Description

CSV file Virat Kohli

## Usage

```r
data("kohli")
```

## Format

The format is: chr "kohli"

## Details

CSV file Virat Kohli

## Source

http://www.espncricinfo.com/ci/content/stats/index.html

## References

http://www.espncricinfo.com/ci/content/stats/index.html
**kohli1**

*Data set for Virat Kohli*

**Description**
Data set for Virat Kohli

**Usage**
```
data("kohli1")
```

**Format**
The format is: chr "kohli1"

**Details**
Data set for Virat Kohli

**Source**
http://www.espncricinfo.com/ci/content/stats/index.html

**References**
http://www.espncricinfo.com/ci/content/stats/index.html

---

**kumble**

*Data set for Anil Kumble*

**Description**
Data set for Anil Kumble

**Usage**
```
data("kumble")
```

**Format**
The format is: chr "kumble"

**Details**
Data set for Anil Kumble
**Source**

http://www.espncricinfo.com/ci/content/stats/index.html

**References**

http://www.espncricinfo.com/ci/content/stats/index.html

---

**Data set for Anil Kumble**

**Description**

Data set for Anil Kumble

**Usage**

data("kumble1")

**Format**

The format is: chr "kumble1"

**Details**

Data set for Anil Kumble

**Source**

http://www.espncricinfo.com/ci/content/stats/index.html

**References**

http://www.espncricinfo.com/ci/content/stats/index.html
### kumblesp

**Data set for Anil Kumble**

**Description**

Data set for Anil Kumble

**Usage**

```
data("kumblesp")
```

**Format**

The format is: chr "kumblesp"

**Details**

Data set for Anil Kumble

**Source**

http://www.espncricinfo.com/ci/content/stats/index.html

**References**

http://www.espncricinfo.com/ci/content/stats/index.html

### malinga

**Data set for Lasith Malinga**

**Description**

Data set for Lasith Malinga

**Usage**

```
data("malinga")
```

**Format**

The format is: chr "malinga"

**Details**

Data set for Lasith Malinga
malinga1

Source
http://www.espncricinfo.com/ci/content/stats/index.html

References
http://www.espncricinfo.com/ci/content/stats/index.html

Examples

data(malinga)
## maybe str(malinga); plot(malinga) ...

malinga1  Data set for Lasith Malinga

Description
Data set for Lasith Malinga

Usage

data("malinga1")

Format
The format is: chr "malinga1"

Details
Data set for Lasith Malinga

Source
http://www.espncricinfo.com/ci/content/stats/index.html

References
http://www.espncricinfo.com/ci/content/stats/index.html
maxwell

Data set for Glenn Maxwell

Description
Data set for Glenn Maxwell

Usage
data("maxwell")

Format
The format is: chr "maxwell"

Details
Data set for Glenn Maxwell

Source
http://www.espncricinfo.com/ci/content/stats/index.html

References
http://www.espncricinfo.com/ci/content/stats/index.html

mendis

Data set for Ajantha Mendis

Description
Data set for Ajantha Mendis

Usage
data("mendis")

Format
The format is: chr "mendis"

Details
Data set for Ajantha Mendis
Source

http://www.espncricinfo.com/ci/content/stats/index.html

References

http://www.espncricinfo.com/ci/content/stats/index.html

---

mitchell

Data set for Mitchell Johnson

---

Description

Data set for Mitchell Johnson

Usage

data("mitchell")

Format

The format is: chr "mitchell"

Details

Data set for Mitchell Johnson

Source

http://www.espncricinfo.com/ci/content/stats/index.html

References

http://www.espncricinfo.com/ci/content/stats/index.html
murali  Data set for Muthiah Muralitharan

Description
Data set for Muthiah Muralitharan

Usage
data("murali")

Format
The format is: chr "murali"

Details
Data set for Muthiah Muralitharan

Source
http://www.espncricinfo.com/ci/content/stats/index.html

References
http://www.espncricinfo.com/ci/content/stats/index.html

narine  Data set for Sunil Narine

Description
Data set for Sunil Narine

Usage
data("narine")

Format
The format is: chr "narine"

Details
Data set for Sunil Narine
percentRuns

Source
http://www.espncricinfo.com/ci/content/stats/index.html

References
http://www.espncricinfo.com/ci/content/stats/index.html

percentRuns Calculate the percent runs in each run range

Description
Calculate the percent runs in each 10 run range

Usage
percentRuns(file)

Arguments
file Input

Details
More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value
None

Note
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/
percentWkts

Calculate the percentage of wickets taken by bowler

Description

Calculate the percentage wickets taken by bowler

Usage

percentWkts(file)

Arguments

file Data frame

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None.

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/
plotTimelineofWinsLosses

Plot the time line of wins/losses/draw/tied etc for a Team in Test, ODI or T20

Description
This function returns plots a time line of won, lost, draw, tied or no result for a team against other teams in home/away or neutral venues

Usage
plotTimelineofWinsLosses(file, teamName, opposition=c("all"), homeOrAway=c("all"), startDate="2001-01-01", endDate="2019-01-01", matchType="Test")

Arguments
- file: The CSV file for which the plot is required
- teamName: The name of the team for which plot is required
- opposition: Opposition is a vector namely c("all") or c("Australia", "India", "England")
- homeOrAway: This parameter is a vector which is either c("all") or a vector of venues c("home", "away", "neutral")
- startDate: The start date from which time line is required
- endDate: The end data for which the time line plot is required
- matchType: Match type - Test, ODI or T20

Value
None

Note
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.in/

See Also
teamWinLossStatusVsOpposition, teamWinLossStatusAtGrounds, plotTimelineofWinsLosses
relativeBatsmanCumulativeAvgRuns

Relative batsman’s cumulative average runs

Description

This function computes and plots the relative cumulative average runs of batsmen.

Usage

relativeBatsmanCumulativeAvgRuns(frames, names)

Arguments

<table>
<thead>
<tr>
<th>frames</th>
<th>This is a list of &lt;batsman&gt;.csv files obtained with an initial getPlayerData()</th>
</tr>
</thead>
<tbody>
<tr>
<td>names</td>
<td>A list of batsmen names who need to be compared</td>
</tr>
</tbody>
</table>

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

relativeBatsmanCumulativeStrikeRate relativeBowlerCumulativeAvgEconRate relativeBowlerCumulativeAvgWkts
relativeBatsmanCumulativeStrikeRate

Examples

```r
## Not run:
# Retrieve the file path of a data file installed with cricketr
tendulkar <- system.file("data", "tendulkar.csv", package = "cricketr")
ganguly <- system.file("data", "ganguly.csv", package = "cricketr")

batsmen <- list(tendulkar, ganguly)
names <- list("Tendulkar", "Ganguly")
relativeBatsmanCumulativeAvgRuns(batsmen, names)
```

Description

This function computes and plots the cumulative average strike rate of batsmen

Usage

```r
relativeBatsmanCumulativeStrikeRate(frames, names)
```

Arguments

- **frames**: This is a list of `<batsman>.csv` files obtained with an initial getPlayerData()
- **names**: A list of batsmen names who need to be compared

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

- [http://www.espncricinfo.com/ci/content/stats/index.html](http://www.espncricinfo.com/ci/content/stats/index.html)
- [https://gigadom.wordpress.com/](https://gigadom.wordpress.com/)

See Also

- `relativeBatsmanCumulativeAvgRuns`
- `relativeBowlerCumulativeAvgEconRate`
- `relativeBowlerCumulativeAvgWickets`
Examples

```r
## Not run:
# Retrieve the file path of a data file installed with cricketr
tendulkar <- system.file("data", "tendulkar.csv", package = "cricketr")
ganguly <- system.file("data", "ganguly.csv", package = "cricketr")

batsmen <- list(tendulkar, ganguly)
names <- list("Tendulkar", "Ganguly")
relativeBatsmanCumulativeStrikeRate(batsmen, names)

## End(Not run)
```

relativeBatsmanSR  
Calculate and plot the relative Mean Strike Rate (SR) for each batsman

Description

Calculate and plot the relative Mean Strike Rate (SR) for each batsman

Usage

`relativeBatsmanSR(frames, names)`

Arguments

- `frames`: This is a list of <batsman>.csv files obtained with an initial getPlayerData()
- `names`: A list of batsmen names who need to be compared

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/
relativeBatsmanSRODTT

See Also

batsmanDismissals, batsmanMovingAverage, batsmanPerfBoxHist

Examples

```r
## Not run:
# Get the list of the <batsman>.csv files obtained with getPlayerData() for batsmen to be compared
tendulkar <- getPlayerData(35320, file="tendulkar.csv", type="batting", homeOrAway=c(1,2), result=c(1,2,4))

tendulkar <- system.file("data", "tendulkar.csv", package = "cricketr")
ganguly <- system.file("data", "ganguly.csv", package = "cricketr")
batsmen <- list(tendulkar, ganguly)
names <- list("Tendulkar", "Ganguly")
relativeBatsmanSR(batsmen, names)

#Note: This example uses the /data directory for the files. However
#you can use any directory as long as the data files exists in that directory.
## End(Not run)
```

---

relativeBatsmanSRODTT  *Calculate and plot the relative Mean Strike Rate (SR) for each batsman for ODI or Twenty20 batsmen*

Description

Calculate and plot the relative Mean Strike Rate (SR) for each batsman for ODI or Twenty20 batsmen

Usage

```r
relativeBatsmanSRODTT(frames, names)
```

Arguments

- `frames`: This is a list of <batsman>.csv files obtained with an initial getPlayerDataOD() or getPlayerTT()
- `names`: A list of batsmen names who need to be compared

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None
Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanScoringRateODTT relativeRunsFreqPerfODTT batsmanPerfBoxHist

Examples

## Not run:
# Get or use the <batsman>.csv obtained with getPlayerDataOD() or getPlayerTT()
#sehwag <- getPlayerData(35263,dir="./mytest", file="sehwag.csv",
#type="batting", homeOrAway=c(1,2),result=c(1,2,4))

# Retrive the file path of a data file installed with cricketr
sehwag <- system.file("data", "sehwag.csv", package = "cricketr")
devilliers <- system.file("data", "devilliers.csv", package = "cricketr")
gayle <- system.file("data", "gayle.csv", package = "cricketr")
maxwell <- system.file("data", "maxwell.csv", package = "cricketr")

batsmen <- list(sehwag,devilliers,gayle,maxwell)
names <- list("Sehwag","Devilliers","Gayle","Maxwell")
relativeBatsmanRODTT(batsmen,names)

# Note: This example uses the /data directory for the files. However
# you can use any directory as long as the data files exists in that directory.

## End(Not run)

relativeBowlerCumulativeAvgEconRate

Relative Bowler's cumulative average economy rate

Description

This function computes and plots the relative cumulative average economy rate of bowlers

Usage

relativeBowlerCumulativeAvgEconRate(frames, names)
relativeBowlerCumulativeAvgWickets

Arguments

frames This is a list of <bowler>.csv files obtained with an initial getPlayerData()

names A list of Twenty20 bowlers names who need to be compared

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

relativeBatsmanCumulativeAvgRuns relativeBowlerCumulativeAvgWickets relativeBatsmanCumulativeStrikeRate

Examples

## Not run:
# Retrieve the file path of a data file installed with cricket
kumble <- system.file("data", "kumble.csv", package = "cricketr")
warne <- system.file("data", "warne.csv", package = "cricketr")
murali <- system.file("data", "murali.csv", package = "cricketr")

frames <- list(kumble, warne, murali)
names <- c("Kumble", "Warne", "Murali")
relativeBowlerCumulativeAvgEconRate(frames, names)

## End(Not run)

relativeBowlerCumulativeAvgWickets

Relative bowlers cumulative average wickets

Description

This function computes and plots the relative cumulative average wickets of a bowler
Usage

relativeBowlerCumulativeAvgWickets(frames, names)

Arguments

frames This is a list of <bowler>.csv files obtained with an initial getPlayerData()
names A list of Twenty20 bowlers names who need to be compared

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

relativeBatsmanCumulativeAvgRuns relativeBowlerCumulativeAvgEconRate relativeBatsmanCumulativeStrikeRate

Examples

## Not run: }

# Retrieve the file path of a data file installed with cricketr
kumble <- system.file("data", "kumble.csv", package = "cricketr")
warne <- system.file("data", "warne.csv", package = "cricketr")
murali <- system.file("data", "murali.csv", package = "cricketr")

frames <- list(kumble,warne,murali)
names <- c("Kumble","Warne","Murali")
relativeBowlerCumulativeAvgWickets(frames,names)

## End(Not run)
Compute and plot the relative mean Economy Rate(ER) of the bowlers

Description

This function computes and plots the relative Economy Rate of the bowlers

Usage

relativeBowlingER(frames, names)

Arguments

frames This is a list of <bowler>.csv files obtained with an initial getPlayerData()
names A list of Twenty20 bowlers names who need to be compared

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlerWktsFreqPercent relativeBowlingPerf bowlerHistWickets
Examples

```r
# Not run:
# Get the list of the <batsman>.csv files obtained with getPlayerData() for batsmen to be compared
# kumble <- getPlayerData(30176, file="kumble.csv", type="bowling",
# homeOrAway=c(1,2), result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
kumble <- system.file("data", "kumble.csv", package = "cricketr")
warne <- system.file("data", "warne.csv", package = "cricketr")
murali <- system.file("data", "murali.csv", package = "cricketr")

frames <- list(kumble, warne, murali)
names <- c("Kumble", "Warne", "Murali")
relativeBowlingER(frames, names)

# Note: This example uses the /data directory for the files. However
# you can use any directory as long as the data files exists in that directory.
```

---

**relativeBowlingERODTT**  
Compute and plot the relative mean Economy Rate (ER) of the bowlers for ODI or Twenty20

---

**Description**

This function computes and plots the relative Economy Rate of the bowlers for ODI or Twenty20

**Usage**

```r
relativeBowlingERODTT(frames, names)
```

**Arguments**

- **frames**: This is a list of <bowler>.csv files obtained with an initial getPlayerDataOD() or getPlayerTT()
- **names**: A list of bowlers names who need to be compared

**Details**

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

**Value**

None

**Note**

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>
relativeBowlingPerf

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

relativeBatsmanSRODTT relativeRunsFreqPerfODTT

Examples

```r
## Not run:
# Get or use the <bowler>.csv obtained with getPlayerData()
# a <- getPlayerData(47492, file="steyn.csv", type="bowling",
# homeOrAway=c(1,2), result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
steyn <- system.file("data", "steyn.csv", package = "cricketr")
mitchell <- system.file("data", "mitchell.csv", package = "cricketr")
southee <- system.file("data", "southee.csv", package = "cricketr")
malinga <- system.file("data", "malinga.csv", package = "cricketr")

frames <- list(steyn, mitchell, southee, malinga)
names <- c("Steyn", "Mitchell", "Southee", "Malinga")
relativeBowlingERODTT(frames, names)

# Note: This example uses the /data directory for the files. However
# you can use any directory as long as the data files exists in that directory.

## End(Not run)
```

---

**relativeBowlingPerf**  
*Plot the relative performances of bowlers*

Description

This function calculates and plots the relative performance of the suers

Usage

```r
relativeBowlingPerf(frames, names)
```

Arguments

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>frames</td>
<td>This is a list of &lt;bowler&gt;.csv files obtained with an initial getPlayerData()</td>
</tr>
<tr>
<td>names</td>
<td>A list of bowlers names who need to be compared</td>
</tr>
</tbody>
</table>
relativeBowlingPerf

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlerWktsFreqPercent relativeBowlingER bowlerHistWickets

Examples

```r
## Not run:
# Get the list of the <batsman>.csv files obtained with getPlayerData() for batsmen to be compared
# kumble <- getPlayerData(30176,file="kumble.csv",type="bowling",
# homeOrAway=c(1,2),result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
kumble <- system.file("data", "kumble.csv", package = "cricketr")
warne <- system.file("data", "warne.csv", package = "cricketr")
murali <- system.file("data", "murali.csv", package = "cricketr")

frames <- list(kumble,warne,murali)
names <- c("Kumble","Warne","Murali")
relativeBowlingPerf(frames,names)

# Note: This example uses the /data directory for the files. However
# you can use any directory as long as the data files exists in that directory.

## End(Not run)
```
**relativeRunsFreqPerf**

*Calculate and compute the relative run frequencies of a list of cricketers*

### Description

This function computes the run frequencies in ranges of 10 and plots these for a list of batsmen.

### Usage

```
relativeRunsFreqPerf(frames, names)
```

### Arguments

- **frames**
  - This is a list of `<batsman>.csv` files obtained with an initial `getPlayerData()`

- **names**
  - A list of batsmen names who need to be compared

### Details

More details can be found in my short video tutorial in Youtube [https://www.youtube.com/watch?v=q9uMPFVsXsI](https://www.youtube.com/watch?v=q9uMPFVsXsI)

### Value

None

### Note

Tinniam V Ganesh <tvganesh.85@gmail.com>

### Author(s)

Tinniam V Ganesh

### References

- [http://www.espncricinfo.com/ci/content/stats/index.html](http://www.espncricinfo.com/ci/content/stats/index.html)
- [https://gigadom.wordpress.com/](https://gigadom.wordpress.com/)

### See Also

- `batsmanDismissals`
- `batsmanMovingAverage`
- `batsmanPerfBoxHist`
Examples

```r
## Not run:
# Get the list of the <batsman>.csv files obtained with getPlayerData() for batsmen to be compared
# tendulkar <- getPlayerData(35320, file="tendulkar.csv", type="batting",
# homeOrAway=c(1,2), result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
tendulkar <- system.file("data", "tendulkar.csv", package = "cricketr")
ganguly <- system.file("data", "ganguly.csv", package = "cricketr")

batsmen <- list(tendulkar, ganguly)
names <- list("Tendulkar", "Ganguly")
relativeRunsFreqPerf(batsmen, names)

# Note: This example uses the /data directory for the files. However
# you can use any directory as long as the data files exists in that directory.

## End(Not run)
```

---

relativeRunsFreqPerfODTT

*Calculate and compute the relative run frequencies of a list of cricketers*

Description

This function computes the run frequencies in ranges of 10 and plots these for a list of batsmen

Usage

```r
relativeRunsFreqPerfODTT(frames, names)
```

Arguments

- **frames**: This is a list of <batsman>.csv files obtained with an initial getPlayerDataOD() or getPlayerTT()
- **names**: A list of batsmen names who need to be compared

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>
Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

batsmanScoringRateODTT, relativeRunsFreqPerfODTT, batsmanPerfBoxHist

Examples

```r
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerDataOD() or getPlayerTT()
#sehwag <-getPlayerData(35263,dir="./mytest", file="sehwag.csv",
type="batting", homeOrAway=c(1,2),result=c(1,2,4))

# Retrieve the file path of a data file installed with cricketr
sehwag <- system.file("data", "sehwag.csv", package = "cricketr")
devilliers <- system.file("data", "devilliers.csv", package = "cricketr")
gayle <- system.file("data", "gayle.csv", package = "cricketr")
maxwell <- system.file("data", "maxwell.csv", package = "cricketr")

batsmen <- list(sehwag,devilliers,gayle,maxwell)
names <- list("Sehwag","Devilliers","Gayle","Maxwell")
relativeRunsFreqPerfODTT(batsmen,names)

# Note: This example uses the /data directory for the files. However
# you can use any directory as long as the data files exists in that directory.
## End(Not run)
```

relativeWktRateTT

Compute and plot the relative Mean Wicket Rate of the bowlers in Twenty20 International

Description

This function computes and plots the relative Wicket Rate of the bowlers in Twenty20 International

Usage

relativeWktRateTT(frames, names)
relativeWktRateTT

Arguments

frames  This is a list of Twenty20 <bowler>.csv files obtained with an initial getPlayerDataTT()

names  A list of bowlers names who need to be compared

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

See Also

bowlerWktsFreqPercent relativeBowlingPerf bowlerHistWickets bowlerWktRateTT

Examples

```r
## Not run:
# Get or use the <bowler>.csv obtained with getPlayerData()
# a <- getPlayerDataTT(26421,dir=".",file="ashwin.csv",type="bowling",
# homeOrAway=c(1,2,3), result=c(1,2,3,5))

# Retrieve the file path of a data file installed with cricketr
mendis <- system.file("data", "mendis.csv", package = "cricketr")
narine <- system.file("data", "narine.csv", package = "cricketr")
badree <- system.file("data", "badree.csv", package = "cricketr")

frames <- list(mendis, badree,narine)
names <- c("Mendis", "Badree", "Narine")
relativeWktRateTT(frames,names)

#Note: This example uses the /data directory for the files. However
#you can use any directory as long as the data files exists in that directory.
```

## End(Not run)
<table>
<thead>
<tr>
<th>sehwag</th>
<th>Data set for Virendar Sehwag</th>
</tr>
</thead>
</table>

**Description**  
Data set for Virendar Sehwag

**Usage**  
data("sehwag")

**Format**  
The format is: chr "sehwag"

**Details**  
Data set for Virendar Sehwag

**Source**  
http://www.espncricinfo.com/ci/content/stats/index.html

**References**  
http://www.espncricinfo.com/ci/content/stats/index.html

<table>
<thead>
<tr>
<th>sehwag1</th>
<th>Data set for Virendar Sehwag</th>
</tr>
</thead>
</table>

**Description**  
Data set for Virendar Sehwag

**Usage**  
data("sehwag1")

**Format**  
The format is: chr "sehwag1"

**Details**  
Data set for Virendar Sehwag
Data set for Virendar Sehwag

Source

http://www.espncricinfo.com(ci/content/stats/index.html

References

http://www.espncricinfo.com(ci/content/stats/index.html

Description

Data set for Virendar Sehwag

Usage

data("sehwag2")

Format

The format is: chr "sehwag2"

Details

Data set for Virendar Sehwag

Source

http://www.espncricinfo.com(ci/content/stats/index.html

References

http://www.espncricinfo.com(ci/content/stats/index.html
**southee**  
*Data set for Tim Southee*

**Description**  
Data set for Tim Southee

**Usage**  
data("southee")

**Format**  
The format is: chr "southee"

**Details**  
Data set for Tin Southee

**Source**  
http://www.espncricinfo.com/ci/content/stats/index.html

**References**  
http://www.espncricinfo.com/ci/content/stats/index.html

**steyn**  
*Data set for Dale Steyn*

**Description**  
Data set for Dale Steyn

**Usage**  
data("steyn")

**Format**  
The format is: chr "steyn"

**Details**  
Data set for Dale Steyn
teamWinLossStatusAtGrounds

Compute the wins/losses/draw/tied etc for a Team in Test, ODI or T20 at venues

Description
This function computes the won, lost, draw, tied or no result for a team against other teams in home/away or neutral venues and either returns a dataframe or plots it for grounds

Usage
teamWinLossStatusAtGrounds(file, teamName, opposition=c("all"), homeOrAway=c("all"), matchType="Test", plot=FALSE)

Arguments
file The CSV file for which the plot is required
teamName The name of the team for which plot is required
opposition Opposition is a vector namely c("all") or c("Australia", "India", "England")
homeOrAway This parameter is a vector which is either c("all") or a vector of venues c("home", "away", "neutral")
matchType Match type - Test, ODI or T20
plot If plot=FALSE then a data frame is returned, If plot=TRUE then a plot is generated

Value
None

Note
Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)
Tinniam V Ganesh
Compute the wins/losses/draw/tied etc for a Team in Test, ODI or T20 against opposition

This function computes the won, lost, draw, tied or no result for a team against other teams in home/away or neutral venues and either returns a dataframe or plots it against opposition.

Usage

```r
teamWinLossStatusVsOpposition(file, teamName, opposition = c("all"), homeOrAway = c("all"), matchType = "Test", plot = FALSE)
```

Arguments

- `file`: The CSV file for which the plot is required
- `teamName`: The name of the team for which the plot is required
- `opposition`: Opposition is a vector namely c("all") or c("Australia", "India", "England")
- `homeOrAway`: This parameter is a vector which is either c("all") or a vector of venues c("home", "away", "neutral")
- `matchType`: Match type - Test, ODI or T20
- `plot`: If plot=FALSE then a data frame is returned, If plot=TRUE then a plot is generated

Examples

```r
## Not run:
# Get the team data for India for Tests

df <- getTeamDataHomeAway(teamName = "India", file = "indiaOD.csv", matchType = "ODI")
teamWinLossStatusAtGrounds("india.csv", teamName = "India", opposition = c("Australia", "England", "India"), homeOrAway = c("home", "away"), plot = TRUE)

## End (Not run)
```
Value
None

Note
Maintainer: Tinniam V Ganesh &lt;tvganesh.85@gmail.com&gt;

Author(s)
Tinniam V Ganesh

References
http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.in/

See Also
teamWinLossStatusVsOpposition teamWinLossStatusAtGrounds plotTimelineOfWinsLosses

Examples
## Not run:
# Get the team data for India for Tests
df &lt;- getTeamDataHomeAway(teamName=&quot;India&quot;, file=&quot;indiaOD.csv&quot;, matchType=&quot;ODI&quot;)
teamWinLossStatusAtGrounds(&quot;india.csv&quot;, teamName=&quot;India&quot;, opposition=c(&quot;Australia&quot;,&quot;England&quot;,&quot;India&quot;),
  homeOrAway=c(&quot;home&quot;,&quot;away&quot;), plot=TRUE)

## End(Not run)

tendulkar Data set for Sachin Tendulkar

Description
Data set for Sachin Tendulkar

Usage
data(&quot;tendulkar&quot;)

Format
The format is: chr &quot;tendulkar&quot;
tendulkar1

Details
Data set for Sachin Tendulkar

Source
http://www.espncricinfo.com/ci/content/stats/index.html

References
http://www.espncricinfo.com/ci/content/stats/index.html

tendulkar1

Description
Data set for Sachin Tendulkar

Usage
data("tendulkar1")

Format
The format is: chr "tendulkar1"

Details
Data set for Sachin Tendulkar

Source
http://www.espncricinfo.com/ci/content/stats/index.html

References
http://www.espncricinfo.com/ci/content/stats/index.html
Data set for Sachin Tendulkar

**Description**

Data set for Sachin Tendulkar

**Usage**

```r
data("tendulkar2")
```

**Format**

The format is: chr "tendulkar2"

**Details**

Data set for Sachin Tendulkar

**Source**

http://www.espncricinfo.com/ci/content/stats/index.html

**References**

http://www.espncricinfo.com/ci/content/stats/index.html

---

Data set for Sachin Tendulkar

**Description**

Data set for Sachin Tendulkar

**Usage**

```r
data("tendulkarsp")
```

**Format**

The format is: chr "tendulkarsp"

**Details**

Data set for Sachin Tendulkar
Source

http://www.espncricinfo.com/ci/content/stats/index.html

References

http://www.espncricinfo.com/ci/content/stats/index.html

---

<table>
<thead>
<tr>
<th>warne</th>
<th>Data set for Shane Warne</th>
</tr>
</thead>
</table>

Description

Data set for Shane Warne

Usage

data("warne")

Format

The format is: chr "warne"

Details

Data set for Shane Warne

Source

http://www.espncricinfo.com/ci/content/stats/index.html

References

http://www.espncricinfo.com/ci/content/stats/index.html
This function calculates the wicket rate vs mean number of deliveries

Description

This function calculates the wicket rate vs mean number of deliveries.

Usage

WR(file)

Arguments

file Name of file

Details

More details can be found in my short video tutorial in Youtube https://www.youtube.com/watch?v=q9uMPFVsXsI

Value

None

Note

Maintainer: Tinniam V Ganesh <tvganesh.85@gmail.com>

Author(s)

Tinniam V Ganesh

References

http://www.espncricinfo.com/ci/content/stats/index.html
https://gigadom.wordpress.com/

Examples

```r
## Should be DIRECTLY executable !! ----
## Define data, use random, or do help(data=index) for the standard data sets.

## The function is currently defined as
function (file)
{
  bowler <- clean(file)
  wktrate <- NULL
  w <- NULL
  for (i in 0:max(as.numeric(as.character(bowler$Wkts)))) {
```
balls <- bowler$Wkts == i, ]$Overs * 6
if (length(balls != 0)) {
    wktRate[i] <- lapply(list(balls), mean)
    w[i] <- i
}
}
a <- sapply(wktRate, is.null)
wktRate[a] <- NaN
wktRate
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