

Package ‘cricketr’

October 12, 2022

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.

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Depends R (>= 3.1.2)

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

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

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

RoxygenNote 7.1.1

NeedsCompilation no

Repository CRAN

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| cricketr-package | <i>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</i> |
|------------------|--|

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:      cricketr
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
Version:     0.0.26
Date:       2021-03-22
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, httr, stats, utils
URL:       https://github.com/tvganesh/cricketr
BugReports: https://github.com/tvganesh/cricketr/issues
RoxygenNote: 7.1.1
```

Index of help topics:

| | |
|-------------|--|
| ER | Calculate the mean Economy Rate |
| WR | This function caculates 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 | Disply 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 oppositon |
| 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 |

| | |
|-------------------------------------|--|
| | a given directory |
| 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 Muralitharan |
| 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 Virender Sehwag |
| sehwag1 | Data set for Virender Sehwag |
| sehwag2 | Data set for Virender 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.in/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

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

```
type = "batting", homeOrAway = c(1, 2, 3), result = c(1, 2, 3,5))
getPlayerDataTT(profile, opposition="",host="",dir = "./data", file = "player001.csv",
type = "batting", homeOrAway = c(1, 2, 3), result = c(1, 2, 3,5))
batsmanAvgRunsGround(file, name = "A Latecut")
bowlerAvgWktsGround(file, name = "A Chinaman")
tendulkar <- system.file("data", "tendulkar.csv", package = "cricketr")
ganguly <- system.file("data", "ganguly.csv", package = "cricketr")
dravid <- system.file("data", "dravid.csv", package = "cricketr")
batsmen <- list(tendulkar,dravid,ganguly)
names <- list("Tendulkar","Dravid","Ganguly")
relativeBatsmanCumulativeAvgRuns(batsmen,names)

## End(Not run)
```

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

<https://www.espncricinfo.com/ci/content/stats/index.html>

References

<https://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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

Source

ESPN Cricinfo Statsguru

References

<https://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=q9uMPFVsXsI>

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also[batsman6s](#)**Examples**

```
## Not run:

# 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.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/> <https://www.youtube.com/watch?v=q9uMPFVsXsI>

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanScoringRateODTT](#), [relativeRunsFreqPerFODTT](#), [batsmanPerfBoxHist](#)

Examples

```
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerDataOD()
#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")
batsman4s6s(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

| | |
|------|---|
| 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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsman4s](#)

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")  
batsman6s(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

```
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>

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanDismissals](#), [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 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)
```

batsmanAvgRunsOpposition

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

```
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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanDismissals](#), [batsmanMovingAverage](#), [batsmanPerfBoxHist](#) [batsmanAvgRunsGround](#)

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
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

Disply 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

```
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

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

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>

Author(s)

Tinniam V Ganesh

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanCumulativeStrikeRate](#) [bowlerCumulativeAvgEconRate](#) [bowlerCumulativeAvgWickets](#)

Examples

```
## 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

```
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

References

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

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=q9uMPFVsXsI>

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

https://www.espn.com/cricket/story/_/id/11111111
<https://gigadom.in/>

See Also

[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 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

| | |
|-------------------|---|
| <code>file</code> | This is the <batsman>.csv file obtained with an initial getPlayerData() |
| <code>name</code> | 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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanDismissals](#), [batsmanMovingAverage](#), [batsmanPerfBoxHist](#) [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 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)
```

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

Description

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

Usage

```
batsmanMovingAverage(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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanDismissals](#), [batsmanMeanStrikeRate](#), [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 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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

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 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)
```

| | |
|---------------------|---|
| batsmanPerfForecast | <i>Forecast the batting performance based on past performances using Holt-Winters forecasting</i> |
|---------------------|---|

Description

This function forecasts the performance of the batsman based on past performances using HoltWinters 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

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

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 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

```
batsmanPerfHomeAway(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

Author(s)

Tinniam V Ganesh

References

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

See Also

[batsmanMovingAverage](#) [batsmanRunsPredict](#) [batsmanPerfBoxHist](#) [bowlerContributionWonLost](#)

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")
batsmanPerfHomeAway(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 | <i>Calculate and run frequencies in ranges of 10 runs and plot versus Runs the performance of the batsman</i> |
|---------------------|---|

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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanDismissals](#), [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 cricketr
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

| | |
|-------------------|---|
| <code>file</code> | This is the <batsman>.csv file obtained with an initial getPlayerData() |
| <code>name</code> | 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

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

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 | <i>Predict the runs for the batsman given the Balls Faced and Minutes in crease</i> |
|--------------------|---|

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

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

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

<https://www.espn.com/cricket/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanMovingAverage](#) [battingPerf3d](#) [batsmanContributionWonLost](#)

Examples

```
## 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",
```

```
#newdataframe=data.frame(BF,Runs)
#print(values)

# 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)
```

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

Description

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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanDismissals](#), [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 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

```
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>

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsman6s](#) [relativeBatsmanSRODTT](#) [relativeRunsFreqPerfODTT](#)

Examples

```
## Not run:
# Get or use the <batsman>.csv obtained with getPlayerDataOD() or 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 | <i>Make a 3D scatter plot of the Runs scored versus the Balls Faced and Minutes at Crease.</i> |
|---------------|--|

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

| | |
|------|---|
| 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

https://www.espn.com/cricket/story/_/id/11111111
<https://gigadom.in/>

See Also

[batsmanDismissals](#), [batsmanMeanStrikeRate](#), [batsmanMovingAverage](#), [batsmanPerfBoxHist](#)

Examples

```
## 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 cricketr
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

```
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>

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingER](#) [relativeBowlingPerf](#)

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")
bowlerAvgWktsGround(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)
```

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

References

<https://www.espn.com/cricinfo/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingER](#) [relativeBowlingPerf](#) [bowlerAvgWktsGround](#)

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")
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

```
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

Note

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

Author(s)

Tinniam V Ganesh

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[bowlerMovingAverage](#) [bowlerPerffForecast](#) [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 cricketr  
pathToFile <- system.file("data", "kumbleSp.csv", package = "cricketr")  
bowlerContributionWonLost(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)
```

bowlerCumulativeAvgEconRate

Bowler's cumulative average economy rate

Description

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

Usage

```
bowlerCumulativeAvgEconRate(file, name)
```

Arguments

| | |
|------|-----------------|
| file | Data frame |
| name | Name of batsman |

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

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

| | |
|------|-----------------|
| file | Data frame |
| name | Name of batsman |

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also

[batsmanCumulativeAverageRuns](#) [bowlerCumulativeAvgEconRate](#) [batsmanCumulativeStrikeRate](#)

Examples

```
## 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

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingER](#) [relativeBowlingPerf](#)

Examples

```
## 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

```
bowlerHistWickets(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

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

Author(s)

Tinniam V Ganesh

References

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

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingER](#) [relativeBowlingPerf](#)

Examples

```
## 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

```
bowlerMovingAverage(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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingER](#) [relativeBowlingPerf](#)

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")
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 | <i>Forecast the bowler performance based on past performances using Holt-Winters forecasting</i> |
|--------------------|--|

Description

This function forecasts the performance of the bowler based on past performances using HoltWinters 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

References

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

See Also

[bowlerEconRate](#), [bowlerMovingAverage](#), [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")
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 | <i>This function analyses the performance of the bowler at home and overseas</i> |
|--------------------|--|

Description

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

Usage

```
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

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also

[bowlerMovingAverage](#) [bowlerPerfForecast](#) [checkBowlerInForm](#) [bowlerContributionWonLost](#)

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 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 Internation

Usage

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

Arguments

| | |
|------|---|
| file | his is the <bowler>.csv file obtained with an initial getPlayerDataTT() |
| 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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingER](#) [relativeBowlingPerf](#)

Examples

```
## 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")
bowlerWktRateTT(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

```
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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingER](#) [relativeBowlingPerf](#)

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")
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)
```

bowlerWktsRunsPlot *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

```
bowlerWktsRunsPlot(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

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingER](#) [relativeBowlingPerf](#) [bowlerHistWickets](#)

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")
bowlerWktsRunsPlot(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)
```

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

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 |

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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanDismissals](#), [batsmanMeanStrikeRate](#), [batsmanMovingAverage](#), [batsmanPerfBoxHist](#)

Examples

```
## Not run:

# Retrieve the file path of a data file installed with cricketr
pathToFile <- system.file("data", "tendulkar.csv", package = "cricketr")
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 | <i>Check whether the bowler is In-Form or Out-Of-Form by looking at his last 10 percent scores</i> |
|-------------------|--|

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

<https://www.espnricinfo.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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[cleanBowlerData](#) [getPlayerData](#) [batsman4s](#) [batsmanMovingAverage](#)

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))

# 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 | <i>Clean the bowlers data frame</i> |
|-----------------|-------------------------------------|

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

```
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

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also[clean](#)**Examples**

```
## 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

| | |
|------------------------|-----------------------------|
| <code>df</code> | Data frame |
| <code>matchType</code> | 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

<https://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<-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

<https://www.espncricinfo.com/ci/content/stats/index.html>

References

<https://www.espncricinfo.com/ci/content/stats/index.html>

ER

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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

ganguly

Data set for Sourav Ganguly

Description

Data set for Sourav Ganguly

Usage

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

Format

The format is: chr "ganguly"

Details

Data set for Sourav Ganguly

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.com/ci/content/stats/index.html>

gayle

Data set for Chris Gayle

Description

Data set for Chris Gayle

Usage

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

Format

The format is: chr "gayle"

Details

Data set for Chris Gayle

Source

<https://www.espncricinfo.com/ci/content/stats/index.html>

References

<https://www.espncricinfo.com/ci/content/stats/index.html>

| | |
|--------------|---|
| getMatchType | <i>Get the number of the match type viz.for Test, ODI and T20</i> |
|--------------|---|

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

<https://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

match <-getMatchType("Test")

## End(Not run)
```

| | |
|---------------|---|
| getPlayerData | <i>Get the player data from ESPN Cricinfo based on specific inputs and store in a file in a given directory</i> |
|---------------|---|

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(1,2,3),result=c(1,2,4))
```

Arguments

| | |
|------------|---|
| profile | This is the profile number of the player to get data. This can be obtained from https://www.espnricinfo.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 https://www.espnricinfo.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 onw of 1,2,3. 1 is for home 2 is for away and 3 is for neutral venue |
| result | This is a vector that can take values 1,2,4. 1 - won match 2- lost match 4- draw |

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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[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(1,2,3),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 | <i>Return the CSV file and a dataframe of a player's matches along with home/away column</i> |
|-----------------|--|

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

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

See Also

[teamWinLossStatusVsOpposition batsman4s](#)

Examples

```
## 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 | <i>Get the One day player data from ESPN Cricinfo based on specific inputs and store in a file in a given directory</i> |
|-----------------|---|

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

```
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 https://www.espnricinfo.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 https://www.espnricinfo.com/india 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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[getPlayerDataSp](#) [getPlayerData](#)

Examples

```
## 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 Australua
```

```
dhoni <- getPlayerDataOD(28081,opposition = 2,host=2,dir=".",
file="dhoniVsAusinAusOD",type="batting")

## End(Not run)
```

`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

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

Arguments

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

<https://www.espnricinfo.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=c("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 | <i>Get the player data along with venue and</i> |
|-----------------|---|

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 https://www.espnricinfo.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 https://www.espnricinfo.com/india/content/player/35320.html . Hence the profile for Sachin is 35320 |
|-----------|---|

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

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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

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 | <i>Get the Twenty20 International player data from ESPN Cricinfo based on specific inputs and store in a file in a given directory~</i> |
|-----------------|---|

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 https://www.espnricinfo.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 https://www.espnricinfo.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 |
| 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, South Africa:3,Sri Lanka:8,United States of America:11,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. 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=q9uMPFVsXsI>

Value

Returns the player's dataframe

Note

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

Author(s)

Tinniam V Ganesh

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[bowlerWktRateTT](#) [getPlayerData](#)

Examples

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

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

kohli <-getPlayerDataTT(253802,opposition = 2,host=2,dir="../cricketr/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

```
getTeamData(dir=".", file="team001.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

<https://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=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

<https://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  
  
getTeamDataHomeAway(teamName="India",file="india.csv")  
  
## End(Not run)
```

| | |
|---------------|-----------------------------------|
| getTeamNumber | <i>Get the number of the Team</i> |
|---------------|-----------------------------------|

Description

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

Usage

```
getTeamNumber(teamName,matchType)
```

Arguments

| | |
|-----------|--|
| teamName | The name of the team e.g Australia, India, Ghana etc |
| matchType | 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

<https://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  
  
teamNi <-getTeamNumber(teamName="India",matchType="Test")  
  
## End(Not run)
```

kohli

Data set for Virat Kohli

Description

CSV file Virat Kohl

Usage

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

Format

The format is: chr "kohli"

Details

CSV file Virat Kohli

Source

<https://www.espncricinfo.com/ci/content/stats/index.html>

References

<https://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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.com/ci/content/stats/index.html>

kumble1

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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

<https://www.espnricinfo.com/ci/content/stats/index.html>

<https://gigadom.in/>

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

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

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

<https://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 <- getTeamDataHomeAway(teamName="India",file="indiaOD.csv",matchType="ODI")
plotTimelineofWinsLosses("indiaOD.csv",teamName="India",
  startDate="2015-01-01",endDate="2019-01-01", matchType="ODI")

## End(Not run)
```

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

| | |
|--------|--|
| 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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[relativeBatsmanCumulativeStrikeRate](#) [relativeBowlerCumulativeAvgEconRate](#) [relativeBowlerCumulativeAvgW](#)

Examples

```
## 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)

## End(Not run)
```

relativeBatsmanCumulativeStrikeRate

Relative batsmen cumulative average strike rate

Description

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

Usage

```
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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[relativeBatsmanCumulativeAvgRuns](#) [relativeBowlerCumulativeAvgEconRate](#) [relativeBowlerCumulativeAvgWicket](#)

Examples

```
## 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 | <i>Calculate and plot the relative Mean Strike Rate (SR) for each batsman</i> |
|-------------------|---|

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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanDismissals](#), [batsmanMovingAverage](#), [batsmanPerfBoxHist](#)

Examples

```
## 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")
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

```
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

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

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))

# 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")
relativeBatsmanSRODTT(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)
```

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

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

See Also

[relativeBatsmanCumulativeAvgRuns](#) [relativeBowlerCumulativeAvgWickets](#) [relativeBatsmanCumulativeStrikeR](#)

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")  
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

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

See Also

[relativeBatsmanCumulativeAvgRuns](#) [relativeBowlerCumulativeAvgEconRate](#) [relativeBatsmanCumulativeStrike](#)

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)
```

| | |
|-------------------|---|
| relativeBowlingER | <i>Compute and plot the relative mean Economy Rate(ER) of the bowlers</i> |
|-------------------|---|

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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingPerf](#) [bowlerHistWickets](#)

Examples

```
## 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.

## End(Not run)
```

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

```
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>

Author(s)

Tinniam V Ganesh

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[relativeBatsmanSRODTT](#) [relativeRunsFreqPerfODT](#)

Examples

```
## 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

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

Arguments

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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingER](#) [bowlerHistWickets](#)

Examples

```
## 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>

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

See Also

[batsmanDismissals](#), [batsmanMovingAverage](#), [batsmanPerfBoxHist](#)

Examples

```
## 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

```
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

<https://www.espnricinfo.com/ci/content/stats/index.html>
<https://gigadom.in/>

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))

# 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 | <i>Compute and plot the relative Mean Wicket Rate of the bowlers in Twenty20 International</i> |
|-------------------|--|

Description

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

Usage

```
relativeWktRateTT(frames, names)
```

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

<https://www.espnricinfo.com/ci/content/stats/index.html>

<https://gigadom.in/>

See Also

[bowlerWktsFreqPercent](#) [relativeBowlingPerf](#) [bowlerHistWickets](#) [bowlerWktRateTT](#)

Examples

```
## 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)
```

| | |
|--------|-------------------------------------|
| sehwag | <i>Data set for Virendar Sehwag</i> |
|--------|-------------------------------------|

Description

Data set for Virendar Sehwag

Usage

```
data("sehwag")
```

Format

The format is: chr "sehwag"

Details

Data set for Virendar Sehwag

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.com/ci/content/stats/index.html>

| | |
|---------|-------------------------------------|
| sehwag1 | <i>Data set for Virendar Sehwag</i> |
|---------|-------------------------------------|

Description

Data set for Virendar Sehwag

Usage

```
data("sehwag1")
```

Format

The format is: chr "sehwag1"

Details

Data set for Virendar Sehwag

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.com/ci/content/stats/index.html>

sehwag2

Data set for Virendar Sehwag

Description

Data set for Virendar Sehwag

Usage

```
data("sehwag2")
```

Format

The format is: chr "sehwag2"

Details

Data set for Virendar Sehwag

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.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

Source

<https://www.espncricinfo.com/ci/content/stats/index.html>

References

<https://www.espncricinfo.com/ci/content/stats/index.html>

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

References

<https://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 <- 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)
```

teamWinLossStatusVsOpposition

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

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 against opposition

Usage

```
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 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

References

<https://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 <- 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)
```

tendulkar

Data set for Sachin Tendulkar

Description

Data set for Sachin Tendulkar

Usage

```
data("tendulkar")
```

Format

The format is: chr "tendulkar"

Details

Data set for Sachin Tendulkar

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.com/ci/content/stats/index.html>

tendulkar1

Data set for Sachin Tendulkar

Description

Data set for Sachin Tendulkar

Usage

```
data("tendulkar1")
```

Format

The format is: chr "tendulkar1"

Details

Data set for Sachin Tendulkar

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.com/ci/content/stats/index.html>

| | |
|------------|--------------------------------------|
| tendulkar2 | <i>Data set for Sachin Tendulkar</i> |
|------------|--------------------------------------|

Description

Data set for Sachin Tendulkar

Usage

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

Format

The format is: chr "tendulkar2"

Details

Data set for Sachin Tendulkar

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.com/ci/content/stats/index.html>

| | |
|-------------|--------------------------------------|
| tendulkarsp | <i>Data set for Sachin Tendulkar</i> |
|-------------|--------------------------------------|

Description

Data set for Sachin Tendulkar

Usage

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

Format

The format is: chr "tendulkarsp"

Details

Data set for Sachin Tendulkar

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.com/ci/content/stats/index.html>

warne

Data set for Shane Warne

Description

Data set for Shane Warne

Usage

```
data("warne")
```

Format

The format is: chr "warne"

Details

Data set for Shane Warne

Source

<https://www.espnricinfo.com/ci/content/stats/index.html>

References

<https://www.espnricinfo.com/ci/content/stats/index.html>

WR*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

```
https://www.espnricinfo.com/ci/content/stats/index.html  
https://gigadom.in/
```

Examples

```
##---- 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[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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