

Package ‘cricketr’

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Type Package

Title Analyze Cricketers 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.

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

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

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

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cricketr-package	<i>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>
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Description

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

Package: cricketr
Type: Package
Version: 1.0
Date: 2015-07-03
License: MIT

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

Author(s)

Tinniam V Ganesh

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

See Also

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

ashwin

Data set for Ravichandran Ashwin

Description

CSV file Ravichandran Ashwin

Usage

```
data("ashwin")
```

Format

The format is: chr "ashwin"

Details

CSV file Ravichandran Ashwin

Source

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

References

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

ashwin1*Data set for Ravichander Ashwin*

Description

Data set for Ravichander Ashwin

Usage

```
data("ashwin1")
```

Format

The format is: chr "ashwin1"

Details

Data set for Ravichander Ashwin

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.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

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

batsman4s

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

Description

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

Usage

```
batsman4s(file, name="A Hookshot")
```

Arguments

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

Details

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

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

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

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

```
# 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,...)
```

batsman4s6s

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

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

Usage

```
batsman4s6s(frames, names)
```

Arguments

frames	List of batsman
names	Names of batsman

Details

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

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also

[batsmanScoringRateODTT, relativeRunsFreqPerfODTT, batsmanPerfBoxHist](#)

Examples

```
# 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,...)
```

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<http://www.espncricinfo.com/ci/content/stats/index.html><https://gigadom.wordpress.com/>**See Also**[batsman4s](#)**Examples**

```
# 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,...)
```

batsmanAvgRunsGround	<i>This function computes and plots the Average runs scored in the different grounds played by batsman</i>
----------------------	--

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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,...)
```

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

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

See Also

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

Examples

```
# 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.
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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, ...)
```

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

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

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

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

See Also

[batsmanCumulativeAverageRuns](#) [bowlerCumulativeAvgEconRate](#) [bowlerCumulativeAvgWickets](#)

Examples

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

## End(Not run)
```

batsmanDismissals	<i>Display a 3D Pie Chart of the dismissals of the batsman</i>
-------------------	--

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

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

See Also

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

Examples

```
# 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,...)
```

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

Description

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

Usage

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

Arguments

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

Details

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

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also

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

Examples

```
# 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,...)
```

batsmanMovingAverage	<i>Calculate and plot the Moving Average of the batsman in his career</i>
----------------------	---

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

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

See Also

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

Examples

```
# 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,...)
```

batsmanPerfBoxHist	<i>Make a boxplot and a histogram of the runs scored by the batsman</i>
--------------------	---

Description

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

Usage

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

Arguments

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

Details

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

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also

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

Examples

```
# 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,...)
```

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

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

See Also

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

Examples

```
# 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,...)
```

batsmanPerfHomeAway	<i>This function analyses the performance of the batsman at home and overseas</i>
---------------------	---

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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, ...)
```

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

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

See Also

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

Examples

```
# 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,...)
```

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

Description

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

Usage

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

Arguments

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

Details

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

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also

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

Examples

```
# 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,...)
```

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

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

See Also

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

Examples

```
# 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,...)
```

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

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

See Also

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

Examples

```
# 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,...)
```

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

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

See Also

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

Examples

```
# 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,...)
```

battingPerf3d

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

Description

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

Usage

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

Arguments

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

Details

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

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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,...)
```

bowlerAvgWktsGround	<i>This function computes and plot the average wickets in different ground</i>
---------------------	--

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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,...)
```

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

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

See Also

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

Examples

```
# 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,...)
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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, ...)
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

[batsmanCumulativeAverageRuns](#) [bowlerCumulativeAvgWickets](#) [batsmanCumulativeStrikeRate](#)

Examples

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

bowlerCumulativeAvgWickets

Bowler's cumulative average wickets

Description

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

Usage

```
bowlerCumulativeAvgWickets(file, name)
```

Arguments

file	Data frame
name	Name of batsman

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also

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

Examples

```
## 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<http://www.espncriinfo.com/ci/content/stats/index.html><https://gigadom.wordpress.com/>**See Also**[bowlerWktsFreqPercent](#) [relativeBowlingER](#) [relativeBowlingPerf](#)**Examples**

```
# 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,...)
```

bowlerHistWickets	<i>Plot a histogram of Wicket percentages versus wickets taken</i>
-------------------	--

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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,...)
```

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

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

See Also

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

Examples

```
# 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.
```

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

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

See Also

[bowlerEconRate](#), [bowlerMovingAverage](#), [bowlerContributionWonLost](#)

Examples

```
# 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,...)
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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.
```

bowlerWktRateTT	<i>Compute and plot the Mean number of deliveries versus wickets taken</i>
-----------------	--

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	this 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

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

See Also

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

Examples

```
# 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,...)
```

`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

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

Details

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

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also

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

Examples

```
# 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,...)
```

bowlerWktsRunsPlot	<i>Compute and plot the runs conceded versus the wickets taken</i>
--------------------	--

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

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

See Also

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

Examples

```
# 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,...)
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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,...)
```

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

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

See Also

[bowlerMovingAverage](#) [batsmanPerfForecast](#) [bowlerContributionWonLost](#)

Examples

```
# 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,...)
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html> <https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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.
```

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

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

See Also

[clean](#)

Examples

```
# 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.
```

devilliers

Data set for AB Devilliers

Description

Data set for AB Devilliers

Usage

```
data("devilliers")
```

Format

The format is: chr "devilliers"

Details

Data set for AB Devilliers

Source

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

References

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

dravid

Data set for Rahul Dravid

Description

Data set for Rahul Dravid

Usage

```
data("dravid")
```

Format

The format is: chr "dravid"

Details

Data set for Rahul Dravid

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

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

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.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

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

References

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

getPlayerData

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

Description

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

Usage

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

Arguments

profile	This is the profile number of the player to get data. This can be obtained from http://www.espncriinfo.com/ci/content/player/index.html . Type the name of the player and click search. This will display the details of the player. Make a note of the profile ID. For e.g For Sachin Tendulkar this turns out to be http://www.espncriinfo.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 <code>"/data"</code> . Default= <code>"/data"</code>
file	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>
type	type of data required. This can be <code>"batting"</code> or <code>"bowling"</code>
homeOrAway	This is vector with either 1,2 or both. 1 is for home 2 is for away
result	This is a vector that can take values 1,2,4. 1 - won match 2- lost match 4- draw

Details

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

Value

Returns the player's dataframe

Note

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

Author(s)

Tinniam V Ganesh

References

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

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),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)
```

getPlayerDataOD

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

Description

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

Usage

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

Arguments

profile	This is the profile number of the player to get data. This can be obtained from http://www.espncricinfo.com/ci/content/player/index.html . Type the name of the player and click search. This will display the details of the player. Make a note of the profile ID. For e.g For Virender Sehwag this turns out to be http://www.espncricinfo.com/india/ Hence the profile for Sehwag is 35263
opposition	The numerical value of the opposition country e.g.Australia,India, England etc. The values are Australia:2,Bangladesh:25,Bermuda:12, England:1,Hong Kong:19,India:6,Ireland:29, Netherlands:15,New Zealand:5,Pakistan:7,Scotland:30,South Africa:3,Sri Lanka:8,United Arab Emirates:27, West Indies:4, Zimbabwe:9; Africa XI:405 Note: If no value is entered for opposition then all teams are considered

host	The numerical value of the host country e.g.Australia,India, England etc. The values are Australia:2,Bangladesh:25,England:1,India:6,Ireland:29,Malaysia:16,New Zealand:5,Pakistan:7, Scotland:30,South Africa:3,Sri Lanka:8,United Arab Emirates:27,West Indies:4, Zimbabwe:9 Note: If no value is entered for host then all host countries are considered
dir	Name of the directory to store the player data into. If not specified the data is stored in a default directory "../data". Default="../data"
file	Name of the file to store the data into for e.g. tendulkar.csv. This can be used for subsequent functions. Default="player001.csv"
type	type of data required. This can be "batting" or "bowling"
homeOrAway	This is vector with either or all 1,2, 3. 1 is for home 2 is for away, 3 is for neutral venue
result	This is a vector that can take values 1,2,3,5. 1 - won match 2- lost match 3-tied 5- no result

Details

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

Value

Returns the player's dataframe

Note

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

Author(s)

Tinniam V Ganesh

References

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

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)

```

getPlayerDataSp

*Get the player data along with venue and***Description**

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

Usage

```

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

```

Arguments

profileNo	This is the profile number of the player to get data. This can be obtained from http://www.espncriinfo.com/ci/content/player/index.html . Type the name of the player and click search. This will display the details of the player. Make a note of the profile ID. For e.g For Sachin Tendulkar this turns out to be http://www.espncriinfo.com/india/content/player/35320.html . Hence the profile for Sachin is 35320
tdir	Name of the directory to store the player data into. If not specified the data is stored in a default directory "../data". Default="../data"
tfile	Name of the file to store the data into for e.g. tendulkar.csv. This can be used for subsequent functions. Default="player001.csv"
ttype	type of data required. This can be "batting" or "bowling"

Details

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

Value

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

Note

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

Author(s)

Tinniam V Ganesh

References

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

See Also

[getPlayerData](#)

Examples

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

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

## End(Not run)
```

getPlayerDataTT

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

Description

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

Usage

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


Arguments

profile	This is the profile number of the player to get data. This can be obtained from http://www.espncriinfo.com/ci/content/player/index.html . Type the name of the player and click search. This will display the details of the player. Make a note of the profile ID. For e.g For Virat Kohli this turns out to be 253802 http://www.espncriinfo.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 <code>"/data"</code> . Default= <code>"/data"</code>
file	Name of the file to store the data into for e.g. kohli.csv. This can be used for subsequent functions. Default= <code>"player001.csv"</code>
type	type of data required. This can be <code>"batting"</code> or <code>"bowling"</code>
homeOrAway	This is vector with either or all 1,2, 3. 1 is for home 2 is for away, 3 is for neutral venue
result	This is a vector that can take values 1,2,3,5. 1 - won match 2- lost match 3-tied 5- no result

Details

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

Value

Returns the player's dataframe

Note

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

Author(s)

Tinniam V Ganesh

References

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

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)
```

kohli	<i>Data set for Virat Kohli</i>
-------	---------------------------------

Description

CSV file Virat Kohl

Usage

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

Format

The format is: chr "kohli"

Details

CSV file Virat Kohli

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

kohli1*Data set for Virat Kohli*

Description

Data set for Virat Kohli

Usage

```
data("kohli1")
```

Format

The format is: chr "kohli1"

Details

Data set for Virat Kohli

Source

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

References

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

kumble*Data set for Anil Kumble*

Description

Data set for Anil Kumble

Usage

```
data("kumble")
```

Format

The format is: chr "kumble"

Details

Data set for Anil Kumble

Source

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

References

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

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

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

References

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

kumblesp	<i>Data set for Anil Kumble</i>
----------	---------------------------------

Description

Data set for Anil Kumble

Usage

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

Format

The format is: chr "kumblesp"

Details

Data set for Anil Kumble

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

malinga	<i>Data set for Lasith Malinga</i>
---------	------------------------------------

Description

Data set for Lasith Malinga

Usage

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

Format

The format is: chr "malinga"

Details

Data set for Lasith Malinga

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

Examples

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

malinga1

Data set for Lasith Malinga

Description

Data set for Lasith Malinga

Usage

```
data("malinga1")
```

Format

The format is: chr "malinga1"

Details

Data set for Lasith Malinga

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

maxwell	<i>Data set for Glenn Maxwell</i>
---------	-----------------------------------

Description

Data set for Glenn Maxwell

Usage

```
data("maxwell")
```

Format

The format is: chr "maxwell"

Details

Data set for Glenn Maxwell

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

mendis	<i>Data set for Ajantha Mendis</i>
--------	------------------------------------

Description

Data set for Ajantha Mendis

Usage

```
data("mendis")
```

Format

The format is: chr "mendis"

Details

Data set for Ajantha Mendis

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

mitchell

Data set for Mitchell Johnson

Description

Data set for Mitchell Johnson

Usage

```
data("mitchell")
```

Format

The format is: chr "mitchell"

Details

Data set for Mitchell Johnson

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

murali*Data set for Muthiah Muralitharan*

Description

Data set for Muthiah Muralitharan

Usage

```
data("murali")
```

Format

The format is: chr "murali"

Details

Data set for Muthiah Muralitharan

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.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

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

References

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

percentRuns

Calculate the percent runs in each run range

Description

Calculate the percent runs in each 10 run range

Usage

percentRuns(file)

Arguments

file Input

Details

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

Value

None

Note

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

Author(s)

Tinniam V Ganesh

References

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

`percentWkts`*Calculate the percentage of wickets taken by bowler*

Description

Calculate the percentage wickets taken by bowler

Usage

```
percentWkts(file)
```

Arguments

<code>file</code>	Data frame
-------------------	------------

Details

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

Value

None.

Note

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

Author(s)

Tinniam V Ganesh

References

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

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")
dravid <- system.file("data", "dravid.csv", package = "cricketr")

batsmen <- list(tendulkar, dravid, ganguly)
names <- list("Tendulkar", "Dravid", "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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

[relativeBatsmanCumulativeAvgRuns](#) [relativeBowlerCumulativeAvgEconRate](#) [relativeBowlerCumulativeAvgWicketRate](#)

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")
dravid <- system.file("data", "dravid.csv", package = "cricketr")

batsmen <- list(tendulkar, dravid, ganguly)
names <- list("Tendulkar", "Dravid", "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

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

See Also

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

Examples

```
# 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")
dravid <- system.file("data", "dravid.csv", package = "cricketr")

batsmen <- list(tendulkar,dravid,ganguly)
names <- list("Tendulkar","Dravid","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.
```

`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

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

See Also

[batsmanScoringRateODTT](#) [relativeRunsFreqPerfODTT](#) [batsmanPerfBoxHist](#)

Examples

```
# 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","De villiers","Gayle","Maxwell")
relativeBatsmanSROD TT(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.
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

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

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

See Also

[relativeBatsmanCumulativeAvgRuns](#) [relativeBowlerCumulativeAvgEconRate](#) [relativeBatsmanCumulativeStrikeRate](#)

Examples

```
## Not run: )

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

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

## End(Not run)
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# Get the list of the <batsman>.csv files obtained with getPlayerData() for batsmen to be compared
# kumble <- getPlayerData(30176,file="kumble.csv",type="bowling",
# homeOrAway=c(1,2),result=c(1,2,4))

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

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

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

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

Description

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

Usage

```
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

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

See Also

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

Examples

```
# 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.
```

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

<http://www.espnccricinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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.
```

relativeRunsFreqPerf	<i>Calculate and compute the relative run frequencies of a list of cricketers</i>
----------------------	---

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

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

See Also

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

Examples

```
# 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")
dravid <- system.file("data", "dravid.csv", package = "cricketr")

batsmen <- list(tendulkar,dravid,ganguly)
names <- list("Tendulkar","Dravid","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.
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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","Devidliiers","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.
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

See Also

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

Examples

```
# 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.
```

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

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.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

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

References

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

sehwag2

Data set for Virender Sehwag

Description

Data set for Virender Sehwag

Usage

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

Format

The format is: chr "sehwag2"

Details

Data set for Virender Sehwag

Source

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

References

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

southee*Data set for Tim Southee*

Description

Data set for Tim Southee

Usage

```
data("southee")
```

Format

The format is: chr "southee"

Details

Data set for Tin Southee

Source

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

References

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

steyn*Data set for Dale Steyn*

Description

Data set for Dale Steyn

Usage

```
data("steyn")
```

Format

The format is: chr "steyn"

Details

Data set for Dale Steyn

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

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

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

tendulkar1	<i>Data set for Sachin Tendulkar</i>
------------	--------------------------------------

Description

Data set for Sachin Tendulkar

Usage

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

Format

The format is: chr "tendulkar1"

Details

Data set for Sachin Tendulkar

Source

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

References

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

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

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

tendulkarsp

Data set for Sachin Tendulkar

Description

Data set for Sachin Tendulkar

Usage

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

Format

The format is: chr "tendulkarsp"

Details

Data set for Sachin Tendulkar

Source

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.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

<http://www.espncriinfo.com/ci/content/stats/index.html>

References

<http://www.espncriinfo.com/ci/content/stats/index.html>

WR

This function caculates the wicket rate vs mean number of deliveries

Description

This function caculates 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

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Author(s)

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References

<http://www.espncriinfo.com/ci/content/stats/index.html>
<https://gigadom.wordpress.com/>

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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