Package 'euroleaguer'

February 23, 2024

| Title 'Euroleague basketball API' Version 0.2.0 Maintainer Flavio Leccese <flavioleccese92@gmail.com> Description Unofficial API wrapper for 'Euroleague' and 'Eurocup' basketball API (https://www.euroleaguebasketball.net/en/euroleague/), it allows to retrieve realtime and historical standard and advanced statistics about competitions, teams, players and games License MIT + file LICENSE URL https://github.com/FlavioLeccese92/euroleaguer/ Imports cli, dplyr, glue, httr, jsonlite, lubridate, stringr, tibble, tidyr Suggests knitr, rmarkdown Config/Needs/website tidyr, dplyr, ggplot2, ggtext, showtext, ggimage, geomtextpath, hexbin, devtools Encoding UTF-8 Language en-US RoxygenNote 7.3.1 NeedsCompilation no Author Flavio Leccese [aut, cre] Repository CRAN Date/Publication 2024-02-23 19:20:11 UTC</flavioleccese92@gmail.com> | 1 cordary 23, 2021 |
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getCompetitionAheadBehind

Get competition ahead-behind standings

Description

Get competition ahead-behind standings

Usage

```
getCompetitionAheadBehind(season_code, round)
```

Arguments

season_code One or more season codes as obtained from getCompetitionHistory().

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

round One or more round codes as obtained from getCompetitionRounds().

Value

Returns a summary tibble of ahead-behind for chosen competition and round

Reference webpage: Ahead-behind standings

```
## Not run:
getCompetitionAheadBehind(season_code = c("E2023", "E2022"), round = 1)
## End(Not run)
```

```
getCompetitionCalendar
```

Get competition calendar standings

Description

Get competition calendar standings

Usage

```
getCompetitionCalendar(season_code, round)
```

Arguments

season_code One or more season codes as obtained from getCompetitionHistory().

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

round One or more round codes as obtained from getCompetitionRounds().

Value

Returns a summary tibble of calendar standings for chosen competitions and rounds

Reference webpage: Calendar standings

Examples

```
if(interactive()) {
getCompetitionCalendar(season_code = c("E2023", "E2022"), round = 1)
}
```

 ${\tt getCompetitionHistory} \ \ \textit{Competition metadata}$

Description

[Experimental]

Retrieve values of arguments for specific data collection functions across all package.

Usage

```
getCompetitionHistory(competition_code)
getCompetitionRounds(season_code)
getCompetitionPhases(season_code)
getCompetitionTeams(season_code)
getCompetitionGames(season_code, round, phase_type = "All")
```

Arguments

competition_code

One or more competition codes.

Admitted values are E for Euroleague and U for Eurocup.

season_code One or more season codes as obtained from getCompetitionHistory().

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

round One or more round codes as obtained from getCompetitionRounds().

phase_type One or more phase type codes as obtained from getCompetitionPhases().

Admitted values are RS for regular season, PO for playoffs and FF for final four.

Default is All for all.

Value

For each function, returns a tibble with information about history, rounds, phases, teams or games of chosen season and competition code.

```
## Not run:
getCompetitionHistory(competition_code = c("E", "U")) |> head(5)
getCompetitionRounds(season_code = c("E2023", "E2022")) |> head(5)
getCompetitionPhases(season_code = c("E2023", "U2023")) |> head(5)
getCompetitionTeams(season_code = c("E2023", "U2023")) |> head(5)
getCompetitionGames(season_code = "E2023", round = 1:5) |> head(5)
## End(Not run)
```

getCompetitionMargins

getCompetitionMargins Get competition margins standings

Description

Get competition margins standings

Usage

```
getCompetitionMargins(season_code, round)
```

Arguments

season_code One or more season codes as obtained from getCompetitionHistory().

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

round One or more round codes as obtained from getCompetitionRounds().

Value

Returns a summary tibble of standing margins for chosen competition and round

Reference webpage: Margins standings

Examples

```
## Not run:
getCompetitionMargins(season_code = c("E2023", "E2022"), round = 1)
## End(Not run)
```

 ${\tt getCompetitionStandings}$

Get competition traditional standings

Description

Get competition traditional standings

Usage

```
getCompetitionStandings(season_code, round)
```

Arguments

season_code One or more season codes as obtained from getCompetitionHistory().

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

round One or more round codes as obtained from getCompetitionRounds().

Value

Returns a summary tibble of standings for chosen competitions and rounds

Reference webpage: Traditional standings

Examples

```
## Not run:
getCompetitionStandings(season_code = c("E2023", "E2022"), round = 1)
## End(Not run)
```

getCompetitionStreaks Get competition streaks standings

Description

Get competition streaks standings

Usage

```
getCompetitionStreaks(season_code, round)
```

Arguments

season_code One or more season codes as obtained from getCompetitionHistory().

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

round One or more round codes as obtained from getCompetitionRounds().

Value

Returns a summary tibble of streaks for chosen competitions and rounds

Reference webpage: Streaks standings

getGameBoxScore 7

Examples

```
## Not run:
getCompetitionStreaks(season_code = c("E2023", "E2022"), round = 1)
## End(Not run)
```

 ${\tt getGameBoxScore}$

Get game box-score

Description

[Experimental]

Usage

```
getGameBoxScore(season_code, game_code)
```

Arguments

 $season_code \qquad One \ or \ more \ season \ codes \ as \ obtained \ from \ {\tt getCompetitionHistory()}.$

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

game_code One or more game codes as obtained from getCompetitionGames().

Value

Returns a list of elements for the chosen games and seasons

- Team. Name of the teams
- Coach. Name of the coaches
- EndOfQuarter. Team accumulated points by quarter
- ByQuarter. Team points for each quarter
- PlayerStats. Statistics for each player in the game
- TeamStats. Aggregated statistics for each team in the game

Glossary of columns:

| Column name | Column extended name |
|-------------|----------------------|
| GP | Game player |
| GS | Game started |
| MIN | Minutes played |
| PTS | Points scored |
| 2PM | Two-pointers made |

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| 2PA | Two-pointers attempted |
|------|--------------------------|
| 2P% | Two-point % |
| 3PM | Three-pointers made |
| 3PA | Three-pointers attempted |
| 3P% | Three-point % |
| FTM | Free throws made |
| FTA | Free throws attempted |
| FT% | Free-throw % |
| OREB | Offensive rebounds |
| DREB | Defensive rebounds |
| TREB | Total rebounds |
| AST | Assists |
| STL | Steals |
| TO | Turnovers |
| BLK | Blocks |
| BLKA | Blocks against |
| FC | Personal fouls committed |
| FD | Personal fouls drawn |
| PIR | Performance Index Rating |
| | |

Reference webpage: BoxScore

Examples

```
## Not run:
getGameBoxScore(season_code = c("E2023", "U2023"), game_code = 1)
## End(Not run)
```

getGameEvolution

Get game evolution

Description

[Experimental]

Usage

```
getGameEvolution(season_code, game_code)
```

getGameHeader 9

Arguments

| season_code | One or more season codes as obtained from getCompetitionHistory(). |
|-------------|--|
| | Examples are E2023 for Euroleague or U2023 for Eurocup 2023. |
| game code | One or more game codes as obtained from getCompetitionGames() |

Value

Returns a list of two elements for the chosen games and seasons

• EvolutionSummary. Overall information about minimum and maximum difference of scores between teams

• Evolution. Minute by minute points of each team

Reference webpage: GraphicStats

Examples

```
## Not run:
getGameEvolution(season_code = c("E2023", "U2023"), game_code = 1)
## End(Not run)
```

getGameHeader

Game metadata

Description

[Experimental]

Retrieve contextual information about games. Outputs may be required as arguments of other getGame* functions

Usage

```
getGameHeader(season_code, game_code)
getGamePlayers(season_code, game_code, team_code)
getGameRound(season_code, game_code)
```

Arguments

| season_code | One or more season codes as obtained from getCompetitionHistory(). Examples are E2023 for Euroleague or U2023 for Eurocup 2023. |
|-------------|---|
| game_code | One or more game codes as obtained from getCompetitionGames(). |
| team_code | One or more team codes as obtained from getCompetitionTeams(). |

Examples are ASV, MAD, ...

Value

For each function, returns a tibble with information about header, player or round of chosen season and game code.

Examples

```
## Not run:
getGameHeader(season_code = c("E2023", "U2023"), game_code = 1)
getGamePlayers(season_code = c("E2023", "U2023"), team_code = "ASV", game_code = 1)
getGameRound(season_code = c("E2023", "U2023"), game_code = 1)
## End(Not run)
```

getGamePlayByPlay

Get game play-by-play

Description

[Experimental]

Usage

```
getGamePlayByPlay(season_code, game_code)
```

Arguments

One or more season codes as obtained from getCompetitionHistory(). season_code

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

One or more game codes as obtained from getCompetitionGames(). game_code

getGamePlayByPlay 11

Value

Returns a list of two elements for the chosen games and seasons

• **PlayByPlaySummary**. Overall information about the games, teams involved and status (live or not)

 PlayByPlay. Detailed information about the games, particularly NumberOfPlay and Play-Type

Glossary of PlayType:

| PlayType | PlayInfo |
|----------|----------------------|
| 2PA | Missed Two Pointer |
| 2PM | Two Pointer |
| 3PA | Missed Three Pointer |
| 3PM | Three Pointer |
| AG | Shot Rejected |
| AS | Assist |
| BP | Begin Period |
| C | Coach Foul |
| CCH | Coach Challenge |
| CM | Foul |
| CMT | Technical Foul |
| CMTI | Throw-In Foul |
| CMU | Unsportsmanlike Foul |
| D | Def Rebound |
| EG | End Game |
| EP | End Period |
| FTA | Missed Free Throw |
| FTM | Free Throw In |
| FV | Block |
| IN | In |
| O | Off Rebound |
| OF | Offensive Foul |
| OUT | Out |
| RV | Foul Drawn |
| ST | Steal |
| TO | Turnover |
| TOUT | Time Out |
| TOUT_TV | TV Time Out |

Reference webpage: PlayByPlay

```
## Not run:
PlayByPlay = getGamePlayByPlay(season_code = c("E2023", "U2023"), game_code = 1)
```

12 getGamePoints

```
PlayByPlay$PlayByPlaySummary |> head(5)
PlayByPlay$PlayByPlay |> head(5)
## End(Not run)
```

getGamePoints

Get game points

Description

[Experimental]

Usage

```
getGamePoints(season_code, game_code)
```

Arguments

season_code One or more season codes as obtained from getCompetitionHistory().

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

game_code One or more game codes as obtained from getCompetitionGames().

Value

Returns scoring information of each player for the chosen games and seasons (subset of play-by-play data). In particular:

- NumberOfPlay. Reference id of the action (useful for join with results of getPlayByPlay)
- CoordX and CoordY. Spatial coordinates of the shot
- Zone. Area of the court of the shot

Reference webpage: PlayByPlay

```
## Not run:
getGamePoints(season_code = c("E2023", "U2023"), game_code = 1)
## End(Not run)
```

getPlayerAdvanced 13

|--|

Description

[Experimental]

Usage

```
getPlayerAdvanced(
  season_code,
  statistic_mode = c("perGame", "perMinute", "accumulated")
)
```

Arguments

Season_code One or more season codes as obtained from getCompetitionHistory(). Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

statistic_mode One or more aggregation modes of statistics.

Admitted values are perGame, perMinute and accumulated.

Value

Returns a summary tibble of advanced players statistics for chosen seasons.

Glossary of columns:

| Column name | Column extended name | Column description |
|-------------|----------------------------|--|
| eFG% | Effective field goal % | Combined two- and three-point shooting effectiveness |
| TS% | True shooting % | Percentage of points vs. points attempted |
| OREB% | Offensive rebound % | Estimated % of available offensive rebounds obtained while on court |
| DREB% | Defensive rebound % | Estimated % of available defensive rebounds obtained while on court |
| REB% | Rebound % | Estimated % of available rebounds obtained while on court |
| AST/TO | Assist to turnover ratio | Ratio of assists made to turnovers committed |
| AST-R | Assist ratio | Estimated % of assists per player's offensive possessions |
| TO-R | Turnover ratio | Estimated % of turnovers per player's offensive possessions |
| 2PTA-R | Two-point attempts ratio | Estimated % of two-point attempts per player's offensive possessions |
| 3PTA-R | Three-point attempts ratio | Estimated % of three-point attempts per player's offensive possessions |
| FT-RT | Free Throw rate | Measure of free throw attempts vs. field goal attempts |

Reference webpage: Stats

```
## Not run:
```

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```
getPlayerAdvanced(season_code = "E2023", statistic_mode = "perGame")
## End(Not run)
```

getPlayerMisc

Get player miscellaneous statistics

Description

[Experimental]

Usage

```
getPlayerMisc(season_code)
```

Arguments

season_code

One or more season codes as obtained from ${\tt getCompetitionHistory()}.$

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

Value

Returns a summary tibble of miscellaneous players statistics for chosen seasons.

Glossary of columns:

Column name Column extended name Column description

DD2 Double-doubles TD3 Triple-doubles Games with double-digit totals in two of: points, rebounds, assists, steals and blo Games with double-digit totals in three of: points, rebounds, assists, steals and b

Reference webpage: Stats

```
## Not run:
getPlayerMisc(season_code = "E2023")
## End(Not run)
```

getPlayerPoints 15

|--|

Description

[Experimental]

Usage

```
getPlayerPoints(season_code)
```

Arguments

season_code

One or more season codes as obtained from ${\tt getCompetitionHistory()}.$

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

Value

Returns a summary tibble of points players statistics for chosen seasons.

Glossary of columns:

| Column name | Column extended name | Column description |
|-------------|---------------------------------|---|
| 2PA-S | Two-point attempts share | Player's share of team's total two-point attempts |
| 3PA-S | Three-point attempts share | Player's share of team's total three-point attempts |
| FTA-S | Free throw attempts share | Player's share of team's total free throw attempts |
| 2PM-S | Two-pointers made share | Player's share of team's total two-pointers made |
| 3PM-S | Three-pointers made share | Player's share of team's total three-pointers made |
| FTM-S | Free throws made share | Player's share of team's total free throws made |
| 2P-RT | Two-Point Rate | % of a player's field goal attempts that are two-pointers |
| 3P-RT | Three-Point Rate | % of field goal attempts that are three-pointers |
| %2P | % of points from two-pointers | % of points from two-point shots made |
| %3P | % of points from three-pointers | % of points from three-point shots made |
| %FT | % of points from free throws | % of points from free throws made |

Reference webpage: Stats

```
## Not run:
getPlayerPoints(season_code = "E2023")
## End(Not run)
```

getPlayerStats

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Get player statistics

Description

[Experimental]

Usage

```
getPlayerStats(
  season_code,
  statistic_mode = c("perGame", "perMinute", "accumulated")
)
```

Arguments

season_code One or more season codes as obtained from getCompetitionHistory().

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

statistic_mode One or more aggregation modes of statistics.

Admitted values are perGame, perMinute and accumulated.

Value

Returns a summary tibble of players statistics for chosen seasons.

Glossary of columns:

| Column name | Column extended name |
|-------------|--------------------------|
| GP | Game player |
| GS | Game started |
| MIN | Minutes played |
| PTS | Points scored |
| 2PM | Two-pointers made |
| 2PA | Two-pointers attempted |
| 2P% | Two-point % |
| 3PM | Three-pointers made |
| 3PA | Three-pointers attempted |
| 3P% | Three-point % |
| FTM | Free throws made |
| FTA | Free throws attempted |
| FT% | Free-throw % |
| OREB | Offensive rebounds |
| DREB | Defensive rebounds |
| TREB | Total rebounds |
| AST | Assists |
| STL | Steals |
| TO | Turnovers |
| BLK | Blocks |

getTeam 17

| BLKA | Blocks against |
|------|--------------------------|
| FC | Personal fouls committed |
| FD | Personal fouls drawn |
| PIR | Performance Index Rating |

Reference webpage: Stats

Examples

```
## Not run:
getPlayerStats(season_code = "E2023", statistic_mode = "perGame")
## End(Not run)
```

getTeam

Team metadata

Description

[Experimental]

Retrieve contextual information about teams. Outputs may be required as arguments of other getTeam* or getPlayer* functions.

Usage

```
getTeam(season_code, team_code)
getTeamPeople(season_code, team_code)
getTeamGames(season_code, team_code)
```

Arguments

season_code One or more season codes as obtained from getCompetitionHistory().

Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

team_code One or more team codes as obtained from getCompetitionTeams().

Examples are ASV, MAD, ...

Value

For each function, returns a tibble with information about team, people or games of chosen season and team code.

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Examples

```
## Not run:
getTeam(team_code = "ASV", season_code = c("E2023", "E2022")) |> head(5)
getTeamPeople(team_code = "ASV", season_code = c("E2023", "E2022")) |> head(5)
getTeamGames(team_code = "ASV", season_code = c("E2023", "E2022")) |> head(5)
## End(Not run)
```

getTeamLeadStats

Get team lead statistics

Description

[Experimental]

Usage

```
getTeamLeadStats(season_code, phase_type = "All", subset = "All")
```

Arguments

| season_code | One or more season codes as obtained from getCompetitionHistory(). |
|-------------|--|
| | Examples are E2023 for Euroleague or U2023 for Eurocup 2023. |

phase_type One or more phase type codes as obtained from getCompetitionPhases().

Admitted values are RS for regular season, P0 for playoffs and FF for final four.

Default is All for all.

subset One or more game subsets.

Admitted values are HomeGames, AwayGames, GamesWon, GamesLost, ResultsIn5Points

(for games resulted in +/-5 points) and All. Default is All.

Value

Returns a list of elements for the chosen seasons, phase_type and subset.

- TeamAccumulated. Total sum of statistics of all teams team
- TeamAveragePerGame. Average per game of statistics of all teams

Glossary of columns:

| Column name | Column extended name |
|-------------|----------------------|
| GP | Game player |
| GS | Game started |
| MIN | Minutes played |

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| DTC | D. 1 |
|------|--------------------------|
| PTS | Points scored |
| 2PM | Two-pointers made |
| 2PA | Two-pointers attempted |
| 2P% | Two-point % |
| 3PM | Three-pointers made |
| 3PA | Three-pointers attempted |
| 3P% | Three-point % |
| FTM | Free throws made |
| FTA | Free throws attempted |
| FT% | Free-throw % |
| OREB | Offensive rebounds |
| DREB | Defensive rebounds |
| TREB | Total rebounds |
| AST | Assists |
| STL | Steals |
| TO | Turnovers |
| BLK | Blocks |
| BLKA | Blocks against |
| FC | Personal fouls committed |
| FD | Personal fouls drawn |
| PIR | Performance Index Rating |
| | |

Reference webpage: TeamLead

Examples

```
## Not run:
    TeamLeadStats = getTeamLeadStats(season_code = c("E2022", "E2023"), phase_type = "RS")
    TeamLeadStats$TeamAccumulated |> head(5)
    TeamLeadStats$TeamAveragePerGame |> head(5)

## End(Not run)
```

 ${\tt getTeamStats}$

Get team statistics

Description

[Experimental]

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Usage

```
getTeamStats(season_code, team_code, phase_type = "All")
```

Arguments

Season_code One or more season codes as obtained from getCompetitionHistory(). Examples are E2023 for Euroleague or U2023 for Eurocup 2023.

team_code One or more team codes as obtained from getCompetitionTeams().

Examples are ASV, MAD, ...

phase_type One or more phase type codes as obtained from getCompetitionPhases().

Admitted values are RS for regular season, PO for playoffs and FF for final four.

Default is All for all.

Value

Returns a list of elements for the chosen teams and seasons:

- PlayerAccumulated. Total sum of statistics by player
- PlayerAveragePerGame. Average per game of statistics by player
- PlayerAveragePer40. Average per 40 minutes of statistics by player
- TeamAccumulated. Total sum of statistics of team
- TeamAveragePerGame. Average per game of statistics of teams

Glossary of columns:

| Column name | Column extended name |
|-------------|--------------------------|
| GP | Game player |
| GS | Game started |
| MIN | Minutes played |
| PTS | Points scored |
| 2PM | Two-pointers made |
| 2PA | Two-pointers attempted |
| 2P% | Two-point % |
| 3PM | Three-pointers made |
| 3PA | Three-pointers attempted |
| 3FG% | Three-point % |
| FTM | Free throws made |
| FTA | Free throws attempted |
| FT% | Free-throw % |
| OREB | Offensive rebounds |
| DREB | Defensive rebounds |
| TREB | Total rebounds |
| AST | Assists |
| STL | Steals |
| TO | Turnovers |
| BLK | Blocks |
| BLKA | Blocks against |

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| FC | Personal fouls committed |
|-----|--------------------------|
| FD | Personal fouls drawn |
| PIR | Performance Index Rating |

Reference webpage: Team

```
## Not run:
TeamStats = getTeamStats(team_code = "ASV", season_code = c("E2023", "E2022"), phase_type = "RS")
TeamStats$PlayerAccumulated |> head(5)
TeamStats$PlayerAveragePerGame |> head(5)
TeamStats$PlayerAveragePer40 |> head(5)
TeamStats$TeamAccumulated |> head(5)
TeamStats$TeamAccumulated |> head(5)
## End(Not run)
```

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