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Title ACC Baseball Datasets with Advanced Sabermetric Metrics

Version 0.1.4

Description Provides curated ACC (Atlantic Coast Conference) baseball datasets at the player-season level, including traditional statistics and advanced sabermetric metrics such as weighted on-base average (wOBA), weighted runs created plus (wRC+), and fielding-independent pitching (FIP).

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accbaseballr *accbaseballr: ACC Baseball Statistics and Metrics*

Description

Provides ACC baseball batting and pitching datasets with advanced sabermetric metrics.

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See Also

Useful links:

- https://github.com/hvb210/accbaseballr
- Report bugs at https://github.com/hvb210/accbaseballr/issues

batting *ACC Batting Data*

Description

This dataset contains advanced batting metrics for ACC baseball players. It is designed for sabermetric analysis rather than raw box-score reporting.

A dataset containing ACC baseball batting statistics at the player-season level, including traditional counting stats and advanced sabermetric offensive metrics.

Usage

```
batting
```

```
batting
```

Format

A data frame with the following columns:

player_id Unique player-season identifier

Name Player first and last name

Age Player age during season

Season Year of season

Team ACC team

G Games played

PA Plate appearances

AB At bats

R Runs scored

H Hits

X1B Singles hit

X2B Doubles hit

X3B Triples hit

HR Home runs hit

BB Bases on balls

SO Strikeouts

BA Hits/At bats

SLG Total bases/At bats

HBP Times hit by a pitch

SF Sacrifice flies

IBB Intentional bases on balls

bats Batting handedness

ISO Isolated power

K_pct Strikeout percentage

BABIP Batting average on balls in play

BB_pct Walk percentage

wOBA Weighted on-base average

league_wOBA Average wOBA for league for season

scale wOBA scale

wRC_plus Weighted runs created plus

A data frame with one row per player-season and the following columns:

player_id Character. Unique player identifier.

Season Integer. The season (calendar year).

Name Character. Player full name.

Age Character. Age of player in season.

Team Character. ACC team name.

G Integer. Games played.

PA Integer. Plate appearances.

AB Integer. At-bats.

H Integer. Hits.

X1B Integer. Singles.

X2B Integer. Doubles.

X3B Integer. Triples.

HR Integer. Home runs.

R Integer. Runs scored.

BB Integer. Walks.

SO Integer. Strikeouts.

SLG Numeric. Slugging percentage.

HBP Integer. Hit by pitch.

SF Integer. Sacrifice fly.

IBB Integer. Intentional walk.

bats Character. Batting handedness: `"Right"`, `"Left"`, `"Both"` or `"Unkown"`.

ISO Numeric. Isolated power.

K_pct Numeric. Strikeout percentage.

BABIP Numeric. Batting average on balls in play.

wOBA Numeric. Weighted on-base average.

league_wOBA Numeric. League-wide weighted on-base average.

scale Numeric. wOBA scale

wRC_plus Numeric. Weighted runs created plus (100 = league average).

Details

Player-season batting metrics for ACC baseball.

Source

Publicly available ACC baseball statistics transformed into sabermetric metrics for analysis.

Derived from publicly available ACC baseball data from Sports-Reference (https://www.sports-reference.com/).

Examples

```
data(batting)
head(batting)
```

`league_context` *ACC baseball league context statistics*

Description

A dataset containing league-average statistics used for normalization and calculation of advanced metrics such as wOBA and wRC+.

Season-level offensive environment metrics used for normalization of player statistics.

Usage

```
league_context

league_context
```

Format

A data frame with one row per season and the following columns:

Season Integer. The season (calendar year).

league_PA Integer. League-wide plate appearances.

league_H Integer. League-wide hits.

league_2B Integer. League-wide doubles hit.

league_3B Integer. League-wide triples hit.

league_HR Integer. League_wide home runs hit.

league_BB Integer. League-wide bases on balls.

league_HBP Integer. League-wide times hit by pitch.

league_SF Integer. League-wide sacrifice flies.

league_AB Integer. League-wide at bats.

league_BA Numeric. League-wide hits/at bats.

league_1B Integer. League-wide singles hit.

league_wOBA Numeric. League-wide weighted on-base average.

league_BB_rate Numeric. League-wide walk rate.

league_SO Integer. League-wide strikeouts.

p_league_BB Integer. League-wide bases on balls (pitching).

p_league_HR Integer. League-wide home runs allowed.

league_IP Numeric. League-wide innings pitched.

league_K_per_9 Numeric. League-wide strikeouts per nine innings.

league_BB_per_9 Numeric. League-wide bases on balls per nine innings.

league_HR_per_9 Numeric. League-wide home runs allowed per nine innings.

A data frame with one row per season:

Season Season year

league_PA League-wide plate appearances

league_H League-wide hits

league_2B League-wide doubles hit

league_3B League-wide triples hit

league_HR League_wide home runs hit

league_BB League-wide bases on balls

league_HBP League-wide times hit by pitch

league_SF League-wide sacrifice flies

league_AB League-wide at bats

league_BA League-wide hits/at bats

league_1B League-wide singles hit

league_wOBA League-wide weighted on-base average

league_BB_rate walk rate

league_SO League-wide strikeouts

p_league_BB League-wide bases on balls (pitching)

p_league_HR League-wide home runs allowed

league_IP League-wide innings pitched

league_K_per_9 League-wide strikeouts per nine innings

league_BB_per_9 League-wide bases on balls per nine innings

league_HR_per_9 League-wide home runs allowed per nine innings

Source

Derived from publicly available ACC baseball data from Sports-Reference (https://www.sports-reference.com/).

Publicly available ACC baseball statistics transformed into sabermetric metrics for analysis.

Examples

```
data(league_context)
head(league_context)
```

`pitching` *ACC Pitching Data*

Description

Advanced pitching metrics for ACC pitchers including fielding-independent measures.

A dataset containing ACC baseball pitching statistics at the player-season level, including traditional counting stats and advanced sabermetric pitching metrics.

Usage

```
pitching

pitching
```

Format

A data frame with the following columns:

player_id Unique player-season identifier

Name Player first and last name

Age Player age during season

Season Year of season

Team ACC team

ERA Earned run average

GS Games started

IP Innings pitched

H Hits allowed

R Runs allowed

ER Earned runs allowed

HR Home runs allowed

BB Bases on balls

IBB Intentional bases on balls

SO Strikeouts

HBP Times hit by a pitch

BF Batters faced

WHIP Walks plus hits per inning pitched

throws Throwing handedness

K_pct Strikeout percentage

BB_pct Walk percentage

K_BB_pct Strikeout minus walk percentage

FIP Fielding independent pitching

A data frame with one row per player-season and the following columns:

Season Integer. The season (calendar year).

player_id Character. Unique player identifier.

Name Character. Player full name.

Age Character. Age of player in season.

Team Character. ACC team abbreviation or name.

ERA Numeric. Earned run average.

GS Integer. Games started.

IP Numeric. Innings pitched.

H Integer. Hits allowed.

R Integer. Runs allowed.

ER Integer. Earned runs allowed.

BB Integer. Walks allowed.

IBB Integer. Intentional walks.

SO Integer. Strikeouts.

HBP Integer. Hit by pitch.

HR Integer. Home runs allowed.

BF Integer. Batters faced.

WHIP Numeric. Walks plus hits per inning pitched.

throws Character. Throwing handedness: `"Right"`, `"Left"`, `"Both"` or `"Unkown"`.

K_pct Numeric. Strikeout percentage.

BB_pct Numeric. Walk percentage.

K_BB_pct Numeric. Strikeout minus walk percentage.

FIP Numeric. Fielding-independent pitching.

Details

Player-season pitching metrics for ACC baseball.

Source

Publicly available ACC baseball statistics transformed into sabermetric metrics for analysis.

Derived from publicly available ACC baseball data from Sports-Reference (https://www.sports-reference.com/).

Examples

```
data(pitching)
head(pitching)
```

`players` *ACC Player Data*

Description

Basic player identification information used to join batting and pitching datasets.

A dataset containing player-level metadata for ACC baseball players, including handedness information.

Usage

```
players

players
```

Format

A data frame with the following columns:

player_id Unique player identifier

Name Player first and last name

bats Batting handedness

throws Throwing handedness

A data frame with one row per player and the following columns:

Name Character. Player full name.

player_id Character. Unique player identifier.

bats Character. Batting handedness: `"Right"`, `"Left"`, `"Both"` or `"Unkown"`.

throws Character. Throwing handedness: `"Right"`, `"Left"`, `"Both"` or `"Unkown"`.

Details

Player metadata for ACC baseball players.

Source

Compiled from publicly available roster information from Sports-Reference.

Derived from publicly available ACC baseball data from Sports-Reference (https://www.sports-reference.com/).

Examples

```
data(players)
head(players)
```

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