

Package ‘pinnacle.data’

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Type Package

Title Market Odds Data from Pinnacle

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Description Market odds from from Pinnacle, an online sports betting bookmaker (see <<https://www.pinnacle.com>> for more information). Included are datasets for the Major League Baseball (MLB) 2016 season and the USA election 2016. These datasets can be used to build models and compare statistical information with the information from prediction markets. The Major League Baseball (MLB) 2016 dataset can be used for sabermetrics analysis and also can be used in conjunction with other popular Major League Baseball (MLB) datasets such as Retrosheets or the Lahman package by merging by GameID.

License GPL-3

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

URL <https://github.com/marcoblume/pinnacle.data>

Depends R (>= 2.10), tibble

Suggests odds.converter, tidyverse, pinnacle.API, Lahman

NeedsCompilation no

Repository CRAN

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Contents

MLB2016	2
USA_Election_2016	3
Index	5

 MLB2016

 MLB2016.

Description

Major League Baseball (MLB) data for the 2016 season.

Usage

MLB2016

Format

A tibble with 20 variables:

GameID same format as Retrosheets and BaseballReference data

EventDateTimeUTC Time of the game in UTC

EventDateTimeET Time of the game in Eastern Standardtime

AwayTeam Team name of the Away Team

HomeTeam Team name of the Home Team

DoubleHeaderGame Indicates if this was a double Header

AwayStartingPitcher Starting pitcher Away Team

HomeStartingPitcher Starting pitcher Home Team

FinalScoreAway Runs scored by Away Team

FinalScoreHome Runs scored by Home Team

EnteredDateTimeUTC Time of the wager line in UTC

EnteredDateTimeET Time of the wager line in Eastern Standardtime

SpreadTeam1 Spread Handicap for Away Team

SpreadUS1 Spread US odds for Away Team

SpreadUS2 Spread US odds for Home Team

MoneyUS1 Moneyline US odds for Away Team

MoneyUS2 Moneyline US odds for Home Team

TotalPoints Total runs handicap

TotalUSOver Total runs US odds for Over

TotalUSUnder Total runs US odds for Under

Details

All wagering lines from Pinnacle for the 2016 MLB season

Examples

```

if (require("tidyverse")) {
  library(tidyverse)
  # What was the range of expected total runs according to the prediction market at Pinnacle?
  MLB2016 %>%
    unnest() %>%
    group_by(GameID) %>%
    arrange(desc(EnteredDateTimeUTC)) %>%
    slice(1) %>%
    ungroup() %>%
    group_by(TotalPoints) %>%
    summarize(Count = n())

  # How many games went Over/Under/Landed on the total?
  MLB2016 %>%
    unnest() %>%
    group_by(GameID) %>%
    arrange(desc(EnteredDateTimeUTC)) %>%
    slice(1) %>%
    ungroup() %>%
    select(GameID, TotalPoints, FinalScoreAway, FinalScoreHome) %>%
    mutate(TotalOutcome = case_when(
      FinalScoreAway + FinalScoreHome > TotalPoints ~ "Over",
      FinalScoreAway + FinalScoreHome < TotalPoints ~ "Under",
      FinalScoreAway + FinalScoreHome == TotalPoints ~ "Landed"
    )) %>%
    group_by(TotalPoints, TotalOutcome) %>%
    summarize(Count = n()) %>%
    print(n=100)
}

```

USA_Election_2016

USA_Election_2016

Description

US Presidential Election data 2016.

Usage

USA_Election_2016

Format

A data.frame with 5 variables:

EnteredDateTime Time of the wager line in UTC

TeamName1 Team name of the Away Team

TeamName2 Team name of the Home Team
MoneyUS1 Moneyline US odds for Away Team
MoneyUS2 Moneyline US odds for Home Team

Details

All lines from Pinnacle for the 2016 US Presidential Election

Examples

```
if (require("odds.converter")) {  
  library(tidyverse)  
  # What is Hilary Clinton's the highest implied winning probability at Pinnacle?  
  
  USA_Election_2016[which.min(USA_Election_2016$MoneyUS1), "EnteredDateTime"]  
  odds.converter::odds.us2prob(min(USA_Election_2016$MoneyUS1))  
}  
  
# What time on election night that Trump's implied winning probability surpassed Clinton's?  
if (require("tidyverse")) {  
  library(tidyverse)  
  USA_Election_2016 %>%  
    filter(MoneyUS1>MoneyUS2) %>%  
    slice(1)  
}
```

Index

* datasets

MLB2016, [2](#)

USA_Election_2016, [3](#)

MLB2016, [2](#)

USA_Election_2016, [3](#)