

Package ‘nascaR.data’

February 12, 2025

Title NASCAR Race Data

Version 2.2.0

Description A collection of NASCAR race, driver, owner and manufacturer data across the three major NASCAR divisions: NASCAR Cup Series, NASCAR Xfinity Series, and NASCAR Craftsman Truck Series. The curated data begins with the 1949 season and extends through the end of the 2024 season. Explore race, season, or career performance for drivers, teams, and manufacturers throughout NASCAR's history. Data was sourced with permission from DriverAverages.com.

LazyData true

License GPL (>= 3)

Depends R (>= 4.1.0)

Encoding UTF-8

RoxygenNote 7.3.2

Imports dplyr, glue, purrr, rlang, rvest, stringdist, stringr

Suggests roxygen2, scales

URL <https://azimuth-project.tech/nascaR.data/>

NeedsCompilation no

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cup_series	<i>NASCAR Cup Series Race Data</i>
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Description

Historical race results for NASCAR Cup Series races from 1949-present. Includes finishing position, driver and car information, track details, and performance metrics for each entry.

Usage

cup_series

Format

A data frame with rows representing each car/driver entry and 19 columns:

Season Race season year

Race Race number within the season

Track Name of the racetrack

Name Official race name

Length Track length in miles

Surface Track surface type (e.g., "road", "oval")

Finish Finishing position

Start Starting position

Car Car number

Driver Driver name

Team Racing team name

Make Car manufacturer

Pts Championship points earned

Laps Number of laps completed

Led Number of laps led

Status Race completion status (e.g., "running", "crash")

S1 Segment 1 finish position

S2 Segment 2 finish position

Rating Driver rating for the race

Win Binary indicator if driver won the race (1 = yes, 0 = no)

Source

Data scraped from Driver Averages (<https://www.driveraverages.com>)

get_driver_info	<i>Get NASCAR driver statistics</i>
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Description

Retrieves and summarizes NASCAR race statistics for a specified driver across different racing series. The function provides flexibility in viewing career summaries, season-by-season breakdowns, or complete race-by-race data.

Usage

```
get_driver_info(driver, series = "all", type = "summary")
```

Arguments

driver	Character string of driver name (case-insensitive, fuzzy matching available)
series	Character string specifying the racing series to analyze. Must be one of: <ul style="list-style-type: none">• 'all' (default)• 'Cup'• 'Xfinity'• 'Truck'
type	Character string specifying the type of summary to return. Must be one of: <ul style="list-style-type: none">• 'summary' (default): Career statistics grouped by series• 'season': Season-by-season statistics for each series• 'all': Complete race-by-race data

Value

A tibble containing driver statistics based on the specified type:

- For type = 'summary': Career statistics grouped by series
- For type = 'season': Season-by-season breakdown
- For type = 'all': Complete race-by-race data

Examples

```
if (interactive()) {  
  # Get career summary for Kyle Busch across all series  
  get_driver_info("Kyle Busch")  
  
  # Get Cup series statistics only  
  get_driver_info("Kyle Busch", series = "cup")  
  
  # Get season-by-season breakdown for Truck series  
  get_driver_info("Kyle Busch", series = "truck", type = "season")  
}
```

get_manufacturer_info *Get NASCAR manufacturer statistics*

Description

Retrieves and summarizes NASCAR race statistics for a specified manufacturer across different racing series. The function provides flexibility in viewing career summaries, season-by-season breakdowns, or complete race-by-race data.

Usage

```
get_manufacturer_info(manufacturer, series = "all", type = "summary")
```

Arguments

manufacturer	Character string specifying a manufacturer name (case-insensitive, fuzzy matching available)
series	Character string specifying the racing series to analyze. Must be one of: <ul style="list-style-type: none"> • 'all' (default) • 'Cup' • 'Xfinity' • 'Truck'
type	Character string specifying the type of summary to return. Must be one of: <ul style="list-style-type: none"> • 'summary' (default): Career statistics grouped by series • 'season': Season-by-season statistics for each series • 'all': Complete race-by-race data

Value

A tibble containing manufacturer statistics based on the specified type:

- For type = 'summary': Career statistics grouped by series
- For type = 'season': Season-by-season breakdown
- For type = 'all': Complete race-by-race data

Examples

```
if (interactive()) {
  # Get career summary for Toyota across all series
  get_manufacturer_info("Toyota")

  # Get Cup series statistics only
  get_manufacturer_info("Ford", series = "cup")

  # Get season-by-season breakdown for Truck series
  get_manufacturer_info("Chevrolet", series = "truck", type = "season")
}
```

get_team_info *Get NASCAR team statistics*

Description

Retrieves and summarizes NASCAR race statistics for a specified team across different racing series. The function provides flexibility in viewing career summaries, season-by-season breakdowns, or complete race-by-race data.

Usage

```
get_team_info(team, series = "all", type = "summary")
```

Arguments

team	Character string specifying an team name (case-insensitive, fuzzy matching available)
series	Character string specifying the racing series to analyze. Must be one of: <ul style="list-style-type: none">• 'all' (default)• 'Cup'• 'Xfinity'• 'Truck'
type	Character string specifying the type of summary to return. Must be one of: <ul style="list-style-type: none">• 'summary' (default): Career statistics grouped by series• 'season': Season-by-season statistics for each series• 'all': Complete race-by-race data

Value

A tibble containing team statistics based on the specified type:

- For type = 'summary': Career statistics grouped by series
- For type = 'season': Season-by-season breakdown
- For type = 'all': Complete race-by-race data

Examples

```
if (interactive()) {  
  # Get career summary for Joe Gibbs Racing across all series  
  get_team_info("Joe Gibbs Racing")  
  
  # Get Cup series statistics only  
  get_team_info("Joe Gibbs Racing", series = "cup")  
  
  # Get season-by-season breakdown for Truck series  
  get_team_info("Joe Gibbs Racing", series = "truck", type = "season")  
}
```

truck_series	<i>NASCAR Truck Series Race Data</i>
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Description

Historical race results for NASCAR Truck Series races from 1995-present. Includes finishing position, driver and car information, track details, and performance metrics for each entry.

Usage

truck_series

Format

A data frame with rows representing each car/driver entry and 19 columns:

Season Race season year
Race Race number within the season
Track Name of the racetrack
Name Official race name
Length Track length in miles
Surface Track surface type (e.g., "road", "oval")
Finish Finishing position
Start Starting position
Car Car number
Driver Driver name
Team Racing team name
Make Car manufacturer
Pts Championship points earned
Laps Number of laps completed
Led Number of laps led
Status Race completion status (e.g., "running", "crash")
S1 Segment 1 finish position
S2 Segment 2 finish position
Rating Driver rating for the race
Win Binary indicator if driver won the race (1 = yes, 0 = no)

Source

Data scraped from Driver Averages (<https://www.driveraverages.com>)

xfinity_series	NASCAR Xfinity Series Race Data
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Description

Historical race results for NASCAR Xfinity Series races from 1982-present. Includes finishing position, driver and car information, track details, and performance metrics for each entry.

Usage

xfinity_series

Format

A data frame with rows representing each car/driver entry and 19 columns:

Season Race season year

Race Race number within the season

Track Name of the racetrack

Name Official race name

Length Track length in miles

Surface Track surface type (e.g., "road", "oval")

Finish Finishing position

Start Starting position

Car Car number

Driver Driver name

Team Racing team name

Make Car manufacturer

Pts Championship points earned

Laps Number of laps completed

Led Number of laps led

Status Race completion status (e.g., "running", "crash")

S1 Segment 1 finish position

S2 Segment 2 finish position

Rating Driver rating for the race

Win Binary indicator if driver won the race (1 = yes, 0 = no)

Source

Data scraped from Driver Averages (<https://www.driveraverages.com>)

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