Package 'nascaR.data'

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Title NASCAR Race Data

Version 2.2.2

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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

LazyDataCompression bzip2

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/

BugReports https://github.com/kyleGrealis/nascaR.data/issues

NeedsCompilation no

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Repository CRAN

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Contents

`cup_series` *NASCAR Cup Series Race Data*

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

Seg Points Segment points – deprecated

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)

`find_driver` *Find Driver Matches*

Description

Find Driver Matches

Usage

```
find_driver(search_term, data = NULL, max_results = 5, interactive = TRUE)
```

Arguments

`search_term`	Character string to search for
`data`	Tibble containing NASCAR race data
`max_results`	Maximum number of matches to return
`interactive`	Logical. Is the session interactive?

Value

Character vector of matching driver names

Examples

```
# Find exact match
find_driver("Christopher Bell")

# Find partial matches
find_driver("bell")

# Non-interactive mode for scripts
find_driver("kyle", interactive = FALSE)
```

`find_manufacturer` *Find Manufacturer Matches*

Description

Find Manufacturer Matches

Usage

```
find_manufacturer(
  search_term,
  data = NULL,
  max_results = 5,
  interactive = TRUE
)
```

Arguments

`search_term`	Character string to search for
`data`	Tibble containing NASCAR race data or series specification
`max_results`	Maximum number of matches to return
`interactive`	Logical. Is the session interactive?

Value

Character vector of matching manufacturer names

Examples

```
# Find exact match
find_manufacturer("Toyota")

# Find with common alias
find_manufacturer("chevy")

# Non-interactive mode for scripts
find_manufacturer("ford", interactive = FALSE)
```

find_team *Find Team Matches*

Description

Find Team Matches

Usage

```
find_team(search_term, data = NULL, max_results = 5, interactive = TRUE)
```

Arguments

search_term	Character string to search for
data	Tibble containing NASCAR race data or series specification
max_results	Maximum number of matches to return
interactive	Logical. Is the session interactive?

Value

Character vector of matching team names

Examples

```
# Find exact match
find_team("Joe Gibbs Racing")

# Find partial matches
find_team("gibbs")

# Non-interactive mode for scripts
find_team("hendrick", interactive = FALSE)
```

get_driver_info *Enhanced Get Driver Info with Smart Matching*

Description

Enhanced Get Driver Info with Smart Matching

Usage

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

Arguments

driver	Character string of driver name to search for
series	Either character string ("cup", "xfinity", "truck", "all") or data frame
type	Character string specifying return type ("summary", "season", "all")
interactive	Logical. Is the session interactive?

Value

Tibble with driver statistics or NULL if no exact match

Examples

```
## Not run:
# Get Christopher Bell's career summary
get_driver_info("Christopher Bell")

# Handle misspelling - will prompt for selection
get_driver_info("cristopher bell")
# Found 1 drivers matching 'cristopher bell':
#  1 - Christopher Bell
# Select driver number: 1
# Driver: Christopher Bell
# Returns summary table

# Get season-by-season data for Cup series only
get_driver_info("Christopher Bell", series = "cup", type = "season")

## End(Not run)
```

---

get_manufacturer_info *Enhanced Get Manufacturer Info with Smart Matching*

Description

Enhanced Get Manufacturer Info with Smart Matching

Usage

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

Arguments

manufacturer	Character string of manufacturer name to search for
series	Either character string ("cup", "xfinity", "truck", "all") or data frame
type	Character string specifying return type ("summary", "season", "all")
interactive	Logical. Is the session interactive?

Value

Tibble with manufacturer statistics or NULL if no exact match

Examples

```
## Not run:
# Get Toyota career summary
get_manufacturer_info("Toyota")

# Handle misspelling - will prompt for selection
get_manufacturer_info("toyoda")
# Found 1 manufacturers matching 'toyoda':
#  1 - Toyota
# Select manufacturer number: 1
# Manufacturer: Toyota
# Returns summary table

# Get season-by-season data for Cup series only
get_manufacturer_info("Toyota", series = "cup", type = "season")

## End(Not run)
```

---

get_team_info *Enhanced Get Team Info with Smart Matching*

Description

Enhanced Get Team Info with Smart Matching

Usage

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

Arguments

team	Character string of team name to search for
series	Either character string ("cup", "xfinity", "truck", "all") or data frame
type	Character string specifying return type ("summary", "season", "all")
interactive	Logical. Is the session interactive?

Value

Tibble with team statistics or NULL if no exact match

Examples

```
## Not run:
# Get Joe Gibbs Racing career summary
get_team_info("Joe Gibbs Racing")

# Handle partial name - will prompt for selection
get_team_info("joe gib racing")
# Found 1 teams matching 'joe gib racing':
#  1 - Joe Gibbs Racing
# Select team number: 1
# Team: Joe Gibbs Racing
# Returns summary table

# Get season-by-season data for Cup series only
get_team_info("Joe Gibbs Racing", series = "cup", type = "season")

## End(Not run)
```

---

truck_series *NASCAR Truck Series Race Data*

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

Seg Points Segment points – deprecated

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*

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

Seg Points Segment points – deprecated

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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