

# Package ‘f1pits’

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**Type** Package

**Title** F1 Pit Stop Datasets

**Version** 1.3.0

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**Description**

Formula 1 pit stop data. The package provides information on teams and drivers across seasons (2019 or higher). It also includes a function to visualize pit stop performance.

**Imports** dplyr, ggplot2, readr, tibble, httr, jsonlite, f1dataR

**Suggests** testthat (>= 3.0.0), knitr, rmarkdown

**VignetteBuilder** knitr

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.3.2

**Config/testthat/edition** 3

**NeedsCompilation** no

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**Repository** CRAN

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pitart

*F1 pitstop ASCII art*

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**Description**

Funny ASCII F1 pitstop for title\_text argument in pitplot() function

**Usage**

```
pitart(n = 1)
```

**Arguments**

n                    Integer. ASCII pit stop to generate. From 1 (by default) to 5

**Format**

ASCII string

**Value**

A string containing the ASCII art of a F1 pit stop

**Examples**

```
pitart(1)
pitart(2)
pitart(3)
pitart(5)
```

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pitchamp*Pit stop standings by season*

---

**Description**

Pit stop official standings by season (since 2015)

**Usage**

```
pitchamp(year)
```

**Arguments**

year                    Season pit stop standings (integer). Can be a range of years a:b (vector) or "all" (character). 2015 or higher.

**Value**

A tibble containing the pit stop season standings points (or wins for 2015 and 2016)

**Examples**

```
pitchamp(2015)
```

---

pitelo

*ELO calculation using pit stop data*

---

**Description**

Function to calculate ELO ratings from a pit stop dataset

**Usage**

```
pitelo(pits_data, stat_fun = 1, k = 20, d = 400, fml = TRUE, elo = NULL)
```

**Arguments**

pits_data	Tibble data generated by the pits() function
stat_fun	Type of stat used in ELO calculations: median (1, by default), mean (2) and min value (3) position
k	Velocity factor magnitude to change ELO ratings (by default, 20)
d	Scaling factor used in the expected score ELO calculation (by default, 400)
fml	Team family mode. Collapse the different names of the same team structure (by default TRUE, enabled)
elo	ELO tibble provided (if is omitted, each ELO value team will be 1000 by default)

**Value**

A tibble containing the ELO calculations

**Examples**

```
pitstop_data_elo_example <- tibble::tibble(
  Pos. = 1:11,
  Team = c("Team_1", "Team_2", "Team_2", "Team_2", "Team_2",
           "Team_3", "Team_2", "Team_1", "Team_1", "Team_3", "Team_1"),
  Driver = rep("Driver", 11),
  "Time (sec)" = c(2.18, 2.21, 2.24, 3, 4, 4.04, 4.07, 4.08, 7.88, 8.88, 14.54),
  Lap = 1:11,
  Points = rep(0, 11),
  Round = rep(0, 11),
  Year = rep(2026, 11))
```

```
pitelo(pitstop_data_elo_example)
pitelo(pitstop_data_elo_example, stat_fun = 3)
```

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pitplot

*Plot pit stop results*

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### Description

Plot pit stop results (MUST BE in tibble format)

### Usage

```
pitplot(pits_data, type = 3, title_text = NULL)
```

### Arguments

pits_data	Tibble data generated by the pits() function
type	Plot type: individual pit stop by driver (1), grouped by team (2), grouped by driver (3, by default)
title_text	Text for the plot title, in quotes (" ") (if is omitted, a default text will be used).

### Format

Tibble

### Value

A ggplot object

### Examples

```
pitplot(pits(10, 2025), 1, "Title: Hello world!")
```

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pits	<i>Pit stops of a race or set</i>
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**Description**

Pit stop results of a race or set

**Usage**

```
pits(round, year)
```

**Arguments**

round	Number of the race (integer), set of races a:b (vector) or "all" (character)
year	Year of the race (integer). 2019 or higher

**Value**

A tibble containing the pit stops values of the specified race(s)

**Examples**

```
pits(10, 2025)  
pits(1:2, 2025)
```

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