

Package: nycflights13 (via r-universe)

June 18, 2024

Title Flights that Departed NYC in 2013

Version 1.0.2.9000

Description Airline on-time data for all flights departing NYC in 2013. Also includes useful 'metadata' on airlines, airports, weather, and planes.

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URL <https://nycflights13.tidyverse.org>,
<https://github.com/tidyverse/nycflights13>

BugReports <https://github.com/tidyverse/nycflights13/issues>

Depends R (>= 3.6)

Imports tibble

Suggests covr, dplyr

Config/Needs/website tidyverse/tidytemplate

Encoding UTF-8

LazyData true

LazyDataCompression bzip2

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

Repository <https://tidyverse.r-universe.dev>

RemoteUrl <https://github.com/tidyverse/nycflights13>

RemoteRef HEAD

RemoteSha df98ef215aa8216fe0838a0b8ac5bada646d814c

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airlines	<i>Airline names</i>
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Description

Look up airline names from their carrier codes.

Usage

airlines

Format

Data frame with columns

carrier Two letter abbreviation.

name Full name.

Source

https://www.transtats.bts.gov/DL_SelectFields.asp?Table_ID=236

Examples

airlines

airports	<i>Airport metadata</i>
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Description

Useful metadata about airports.

Usage

airports

Format

A data frame with columns:

faa FAA airport code.

name Usual name of the airport.

lat, lon Location of airport.

alt Altitude, in feet.

tz Timezone offset from GMT.

dst Daylight savings time zone. A = Standard US DST: starts on the second Sunday of March, ends on the first Sunday of November. U = unknown. N = no dst.

tzone IANA time zone, as determined by GeoNames webservice.

Source

<https://openflights.org/data.html>, downloaded 2014-06-27

Examples

```
airports

if (require("dplyr")) {

  airports %>% rename(dest = faa) %>% semi_join(flights)
  flights %>% anti_join(airports %>% rename(dest = faa))
  airports %>% rename(origin = faa) %>% semi_join(flights)

}
```

flights

Flights data

Description

On-time data for all flights that departed NYC (i.e. JFK, LGA or EWR) in 2013.

Usage

```
flights
```

Format

Data frame with columns

year, month, day Date of departure.

dep_time, arr_time Actual departure and arrival times (format HHMM or HMM), local tz.

sched_dep_time, sched_arr_time Scheduled departure and arrival times (format HHMM or HMM), local tz.

dep_delay, arr_delay Departure and arrival delays, in minutes. Negative times represent early departures/arrivals.

carrier Two letter carrier abbreviation. See [airlines](#) to get name.

flight Flight number.

tailnum Plane tail number. See [planes](#) for additional metadata.

origin, dest Origin and destination. See [airports](#) for additional metadata.

air_time Amount of time spent in the air, in minutes.

distance Distance between airports, in miles.

hour, minute Time of scheduled departure broken into hour and minutes.

time_hour Scheduled date and hour of the flight as a POSIXct date. Along with origin, can be used to join flights data to [weather](#) data.

Source

RITA, Bureau of transportation statistics, https://www.transtats.bts.gov/DL_SelectFields.asp?Table_ID=236

planes

Plane metadata

Description

Plane metadata for all plane tailnumbers found in the FAA aircraft registry. American Airways (AA) and Envoy Air (MQ) report fleet numbers rather than tail numbers so can't be matched.

Usage

planes

Format

A data frame with columns:

tailnum Tail number.

year Year manufactured.

type Type of plane.

manufacturer, model Manufacturer and model.

engines, seats Number of engines and seats.

speed Average cruising speed in mph.

engine Type of engine.

Source

FAA Aircraft registry, https://www.faa.gov/licenses_certificates/aircraft_certification/aircraft_registry/releasable_aircraft_download/

Examples

```
planes

if (require("dplyr")) {

# Flights that don't have plane metadata
flights %>% anti_join(planes, "tailnum")

}
```

weather	<i>Hourly weather data</i>
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Description

Hourly meteorological data for LGA, JFK and EWR.

Usage

```
weather
```

Format

A data frame with columns:

origin Weather station. Named `origin` to facilitate merging with `flights` data.

year, month, day, hour Time of recording.

temp, dewp Temperature and dewpoint in F.

humid Relative humidity.

wind_dir, wind_speed, wind_gust Wind direction (in degrees), speed and gust speed (in mph).

precip Precipitation, in inches.

pressure Sea level pressure in millibars.

visib Visibility in miles.

time_hour Date and hour of the recording as a POSIXct date.

Source

ASOS download from Iowa Environmental Mesonet, <https://mesonet.agron.iastate.edu/request/download.phtml>.

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