Package 'nycflights13'

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Title Data about flights departing NYC in 2013.

Version 0.1

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

Depends R (>= 3.1.0)

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LazyData true

Suggests dplyr

URL <http://github.com/hadley/nycflights13>

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NeedsCompilation no

Repository CRAN

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R topics documented:

`airlines`	*Airline names.*

Description

Look up airline names from their carrier codes.

Usage

```
airlines
```

Format

Data frame with columns

carrier Two letter abbreviation
name Full name

Source

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

Examples

```
airlines
```

`airports`	*Airport metadata*

Description

Useful metadata about airports.

Usage

```
airports
```

Format

A data frame with columns:

faa FAA airport code
name Usual name of the aiport
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.

Source

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

Examples

```
if (require("dplyr")) {
airports

airports %>% mutate(dest = faa) %>% semi_join(flights)
flights %>% anti_join(airports %>% mutate(dest = faa))
airports %>% mutate(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 Departure and arrival times, local tz.

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

hour,minute Time of departure broken in to hour and minutes

carrier Two letter carrier abbreviation. See airlines to get name

tailnum Plane tail number

flight Flight number

origin,dest Origin and destination. See airports for additional metadata.

air_time Amount of time spent in the air

distance Distance flown

Source

RITA, Bureau of transportation statistics, http://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 (e.g. http://www.flyerguide.com/Tail_Numbers_(AA)) 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, http://www.faa.gov/licenses_certificates/aircraft_certification/aircraft_registry/releasable_aircraft_download/

Examples

```
if (require("dplyr")) {
planes

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

}
```

---

weather   *Hourly weather data*

Description

Hourly meterological data for LGA, JFK and EWR.

Usage

```
weather
```

Format

A data frame with columns

origin Weather station. Named origin to faciliate 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 Preciptation, in inches

pressure Sea level pressure in millibars

visib Visibility in miles

Source

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

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