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

**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](http://127.0.0.1:11549/help/library/nycflights13/help/airlines) to get name.

flight

Flight number.

tailnum

Plane tail number. See [planes](http://127.0.0.1:11549/help/library/nycflights13/help/planes) for additional metadata.

origin, dest

Origin and destination. See [airports](http://127.0.0.1:11549/help/library/nycflights13/help/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 POSIXctdate. Along with origin, can be used to join flights data to [weather](http://127.0.0.1:11549/help/library/nycflights13/help/weather) data.

**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.

tzone

IANA time zone, as determined by GeoNames webservice.

**Source**

[http://openflights.org/d](http://openflights.org/data.html)

## **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

## **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.