Package 'nycflights23'

May 9, 2026

Title Flights and Other Useful Metadata for NYC Outbound Flights in 2023

Version 0.2.0

Description Updating the now 10-year-old 'nycflights13' data package. It contains information about all flights that departed from the three main New York City airports in 2023 and metadata on airlines, airports, weather, and planes.

License CC0

URL https://moderndive.github.io/nycflights23/, https://github.com/moderndive/nycflights23/

BugReports https://github.com/moderndive/nycflights23/issues/

Depends R (>= 3.5.0)

Suggests anyflights

Encoding UTF-8

LazyData true

LazyDataCompression bzip2

RoxygenNote 7.3.1

NeedsCompilation no

Author Chester Ismay [aut, cre] (ORCID: <https://orcid.org/0000-0003-2820-2547>), Simon P. Couch [aut], Hadley Wickham [aut], RStudio [cph], Jay Lee [ctb], Dennis Irorere [ctb]

Maintainer Chester Ismay <chester.ismay@gmail.com>

Repository CRAN

Date/Publication 2025-04-19 06:20:06 UTC

Contents

`airlines` *Airline names.*

Description

Look up airline names from their carrier codes.

Format

A data frame with columns:

carrier Two letter abbreviation.

name Full name.

Source

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

`airports` *Airport metadata*

Description

Useful metadata about 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/UTC.

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/

`flights` *Flights data*

Description

On-time data for all flights that departed from the given airports.

Format

A data frame with columns:

year, month, day Date of departure.

dep_time, arr_time Actual departure and arrival times, UTC.

sched_dep_time, sched_arr_time Scheduled departure and arrival times, UTC.

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

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

carrier Two letter carrier abbreviation. See `get_airlines` to get the full name.

tailnum Plane tail number.

flight Flight number.

origin, dest Origin and destination airport. See `get_airports` for additional metadata.

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

distance Distance between airports, in miles.

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 tail numbers 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.

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

weather *Hourly weather data*

Description

Hourly meteorological data.

Format

A data frame with columns

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

year, month, day, hour Time of recording, UTC.

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, UTC.

Source

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

Index