Package ‘nycflights23’

March 9, 2024

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

Version 0.1.0

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.

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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] (<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>

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<th>airlines</th>
<th>Airline names.</th>
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**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

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<table>
<thead>
<tr>
<th>airports</th>
<th>Airport metadata</th>
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</thead>
</table>

**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.
- **tzone** IANA time zone, as determined by GeoNames webservice.
Flights data

Source

https://openflights.org/

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

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](https://www.faa.gov/licenses_certificates/aircraft_certification/aircraft_registry/releasable_aircraft_download)

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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.
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