## Package 'sfo'

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Type Package

Title San Francisco International Airport Monthly Air Passengers

Version 0.1.2

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Description Provides monthly statistics on the number of monthly air passengers at SFO airport such as operating airline, terminal, geo, etc. Data source: San Francisco data portal (DataSF) <https: //data.sfgov.org/Transportation/Air-Traffic-Passenger-Statistics/rkru-6vcg>.

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Encoding UTF-8

LazyData true

**Depends** R (>= 2.10)

**Suggests** dplyr (>= 1.0.0), magrittr (>= 1.5), plotly (>= 4.9.2.1), knitr, rmarkdown, tidyr (>= 1.0.0)

RoxygenNote 7.1.2

VignetteBuilder knitr

NeedsCompilation no

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**Repository** CRAN

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sankey\_ly

#### Description

Sankey Plot with Plotly

#### Usage

sankey\_ly(x, cat\_cols, num\_col, title = NULL)

#### Arguments

х	A data.frame input, must have at least two categorical columns and one numeric column
cat_cols	A vector of at least two categorical columns names
num_col	A single numeric column name
title	Optional, string to pass to plotly layout title function

#### Details

A customized function for data transformation and plotting sankey plot with Plotly

#### Examples

sfo\_passengers

#### Description

Monthly summary of number of passengers in San Francisco International Airport (SFO)

#### Usage

sfo\_passengers

#### Format

A data frame with 12 variables.

activity\_period Activity year and month in YYYYMM format

- operating\_airline Airline name for the aircraft operator
- **operating\_airline\_iata\_code** The International Air Transport Association (IATA) two-letter designation for the Operating Airline
- published\_airline Airline name that issues the ticket and books revenue for passenger activity
- published\_airline\_iata\_code The International Air Transport Association (IATA) two-letter designation for the Published Airline
- **geo\_summary** The flights' classification by domestic for flights that arrived from or departed to a destination within the United States and international for destinations outside the United States
- geo\_region The flight origin/destination geographic region details
- **activity\_type\_code** A description of the physical action a passenger took in relation to a flight, which includes boarding a flight ("enplanements"), getting off a flight ("deplanements") and transiting to another location ("intransit")
- **price\_category\_code** A categorization of whether a Published Airline is a low-cost carrier or not a low-cost carrier
- terminal The airport's terminal designations at SFO where passenger activity took place
- **boarding\_area** The airport's boarding area designations at SFO where passenger activity took place
- passenger\_count The number of monthly passengers associated with the above attribute fields

#### Details

The dataset contains the monthly summary of number of passengers in San Francisco International Airport (SFO)

#### Source

San Francisco data portal (DataSF) website.

#### Examples

data(sfo\_passengers)

```
require(dplyr)
# Get summary of total number of passengers by activity type
# in most recent month
sfo_passengers %>%
filter(activity_period == max(activity_period)) %>%
group_by(activity_type_code) %>%
summarise(total = sum(passenger_count), .groups = "drop")
# Get summary of total number of passengers by
# activity type and geo region in most recent month
sfo_passengers %>%
filter(activity_period == max(activity_period)) %>%
group_by(activity_type_code, geo_region) %>%
summarise(total = sum(passenger_count), .groups = "drop")
```

sfo\_stats

SFO Airport Air Landings Statistics

#### Description

Monthly statistics on San Francisco International Airport (SFO) landings

#### Usage

sfo\_stats

#### Format

A data frame with 14 variables.

activity\_period Activity year and month in YYYYMM format

operating\_airline Airline name for the aircraft operator

- **operating\_airline\_iata\_code** The International Air Transport Association (IATA) two-letter designation for the Operating Airline
- published\_airline Airline name that issues the ticket and books revenue for passenger activity
- published\_airline\_iata\_code The International Air Transport Association (IATA) two-letter designation for the Published Airline
- **geo\_summary** The flights' classification by domestic for flights that arrived from or departed to a destination within the United States and international for destinations outside the United States

#### geo\_region The flight origin/destination geographic region details

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- **landing\_aircraft\_type** A designation for three types of aircraft that landed at SFO, which includes passenger aircraft, cargo-only aircraft ("freighters"), or combination aircraft ("combi")
- **aircraft\_body\_type** A designation that is independent from Landing Aircraft Type, which determines whether commercial aircraft landed at SFO is a wide body-jet, narrow-body jet, regional-jet or a propeller operated aircraft
- aircraft\_manufacturer Manufacturer name for the aircraft that landed at SFO
- aircraft\_model Model designation of aircraft by the manufacturer
- **aircraft\_version** Variations of the Aircraft Model, also known as the "dash number", designated by the manufacturer to segregate unique versions of the same model
- landing\_count The number of aircraft landings associated with General and Landings Statistics attribute fields
- total\_landed\_weight The aircraft landed weight (in pounds) associated with General and Landings Statistics attribute fields

#### Details

The dataset contains the monthly statistics on the air traffic landings in San Francisco International Airport (SFO)

#### Source

San Francisco data portal (DataSF) website.

#### Examples

```
data(sfo_stats)
```

```
require(dplyr)
```

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