Package ‘sfo’

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Type Package

Title San Francisco International Airport Monthly Air Passengers

Version 0.1.1

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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.


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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 7.1.1

VignetteBuilder knitr

NeedsCompilation no

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**sankey_ly**  
*Sankey Plot with Plotly*

**Description**
Sankey Plot with Plotly

**Usage**
sankey_ly(x, cat_cols, num_col, title = NULL)

**Arguments**
x
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

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**sfo_passengers**  
*SFO Airport Air Traffic Passenger Statistics*

**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 operator of aircraft
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** Designates whether the passenger activity in relation to SFO arrived from or departed to a location within the United States (“domestic”), or outside the United States (“international”) without stops

**geo_region** Provides a more detailed breakdown of the GEO Summary field to designate the region in the world where activity in relation to SFO arrived from or departed to without stops

**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 terminal designations at SFO where passenger activity took place

**boarding_area** The airport 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**

```r
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 operator of aircraft
- **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**  Designates whether the passenger activity in relation to SFO arrived from or departed to a location within the United States (“domestic”), or outside the United States (“international”) without stops
- **geo_region**  Provides a more detailed breakdown of the GEO Summary field to designate the region in the world where activity in relation to SFO arrived from or departed to without stops
- **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)
sfo_stats

Source
San Francisco data portal (DataSF) website.

Examples
```
data(sfo_stats)
require(dplyr)

# Get summary of total landing and weight by geo region
# in most recent month
sfo_stats %>%
  filter(activity_period == max(activity_period)) %>%
  group_by(geo_region) %>%
  summarise(total_landing = sum(landing_count),
            total_weight = sum(total_landed_weight),
            .groups = "drop")
```
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