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.
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 7.1.1

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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R topics documented:

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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

```
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)

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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