# GTFS

The General Transit Feed Specification (GTFS) is an <u>Open Standard</u> used to distribute relevant information about transit systems to riders. It allows public transit agencies to publish their transit data in a format that can be consumed by a wide variety of software applications. Today, the GTFS data format is used by thousands of public transport providers.

GTFS is supported around the world and its use, importance, and scope has been increasing. It's likely that an agency you know already uses GTFS to represent routes, schedule, stop locations, and other information, and that riders are already consuming it via various applications.

There are GTFS files with information regarding scheduling, routes, stops and other information on the operation of Metro do Porto and STCP, each of which has the following datasets:

## Metro do Porto

Datasets:

- ***agency***

  The agency dataset provides information about the transportation agency. It includes the following fields: agency_id, agency_name, agency_url, agency_timezone, and agency_lang.

- ***calendar dates***

  The calendar_dates dataset provides information about specific dates and exceptions for service availability within a transportation system. Each row represents a particular date and includes the following fields: service_id, date, and exception_type.

- ***calendar***

  The calendar dataset provides information about the service availability for different days of the week within a transportation system. Each row represents a specific service and includes the following fields: service_id, monday, tuesday, wednesday, thursday, friday, saturday, sunday, start_date, and end_date.

- ***fare attributes***

  This dataset provides information about different fare options offered by a transportation system. Each row in the dataset represents a specific fare and includes the following details: fare_id, price, currency_type, payment_method, transfers, and transfer_duration.

- ***fare rules***

  Contains information about fare rules associated with different routes in a transportation system. Each row represents a fare rule and includes the fare_id, route_id, origin_id, and destination_id.

- ***frequencies***

  This dataset provides information about the frequencies of trips in a transportation system. Each row represents a specific trip and includes the trip_id, start_time, end_time, and headway_secs.

- ***routes***

  Provides information about different routes within a transportation system. Each row represents a specific route and includes details such as route_id, agency_id, route_short_name, route_long_name, route_desc, route_type, route_url, route_color, and route_text_color.

- ***shapes***

  Contains information about the shapes of different routes within a transportation system. Each row represents a specific point on a route and includes details such as shape_id, shape_pt_lat, shape_pt_lon, shape_pt_sequence, and shape_dist_traveled.

- ***stop times***

  The stop_times dataset provides information about the arrival and departure times of stops for specific trips. Each row represents a stop on a trip and includes the following fields: trip_id, arrival_time, departure_time, stop_id, stop_sequence, stop_headsign, pickup_type, drop_off_type, and shape_dist_traveled.

- ***stops***

  The stops dataset provides information about various bus and metro stops in Portugal, specifically in the Porto metropolitan area. Each row represents a stop and includes details such as stop_id, stop_code (if available), stop_name,

stop_desc, stop_lat (latitude), stop_lon (longitude), zone_id, and stop_url (if applicable).

- ***transfers***

  Provides information about transfers between stops in a transportation network. Each row in the dataset represents a transfer and includes the following fields: from_stop_id, to_stop_id, and transfer_type.

- ***trips***

  The trips dataset provides information about different trips within a transportation network. Each row represents a specific trip and includes the following fields: route_id, service_id, trip_id, trip_headsign, direction_id, block_id, and shape_id.

## STCP

Datasets:

- ***agency***

- ***calendar dates***

- ***calendar***

- ***routes***

- ***shapes***

- ***stop times***

- ***stops***

- ***transfers***

- ***trips***


*link for more information*: https://gtfs.org/