Metadata format: ISO 19139

Subway Routes, New York NY, January 2017

ISO 19139 metadata content
- Resource Identification Information
- Spatial Representation Information
- Reference System Information
- Data Quality Information
- Distribution Information
- Metadata Information

Resource Identification Information

CITATION

TITLE Subway Routes, New York NY, January 2017

PUBLICATION DATE 2017-01-31

EDITION jan2017
PRESENTATION FORMAT mapDigital

SERIES
NAME NYC Mass Transit Spatial Layers

RESPONSIBLE PARTY - POINTOFCONTACT
ORGANIZATION'S NAME Newman Library, Baruch CUNY
CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION
ADDRESS
DELIVERY POINT 151 E 25th St Box H-0520
DELIVERY POINT Newman Library, Baruch CUNY
CITY New York
ADMINISTRATIVE AREA NY
POSTAL CODE 10010
COUNTRY UNITED STATES

THEMES OR CATEGORIES OF THE RESOURCE structure, transportation

PLACE KEYWORDS
KEYWORDS City of New York, 2395220, Borough of Bronx, 978756, Borough of Brooklyn, 978759, Borough of Manhattan, 979190, Borough of Queens, 979404, Borough of Staten Island, 979522

THESAURUS

TITLE Geographic Names Information Service (GNIS)
ALTERNATE TITLES ANSI INCITS 446:2008

PUBLICATION DATE 2008-01-01

PLACE KEYWORDS
KEYWORDS Bronx County, 36005, Kings County, 36047, New York County, 36061, Queens County, 36081, Richmond County, 36085
This line layer was created from the GTFS data feeds from the Metropolitan Transportation Authority (MTA) to represent the MTA NYC Transit Subway routes. A python script was written to take the data files as input, process and save them as a spatial layer in the local state plane coordinate reference system. Lines in this layer represent individual subway routes that follow physical track locations; they were generalized from the GTFS format where lines depicted individual services. Each line represents the route that a specific train takes during normal weekday rush hour service. The unique ID is route_id, a field created by the MTA that uses the familiar letter or number designation for trains, with distinct ids for each of the three shuttle (S) trains. This layer was created as part of the NYC Mass Transit Spatial Layers series, and is updated biannually to account for changes in the transit system.

This dataset is intended for researchers, policy makers, students, and educators for basic geographic analysis and mapping purposes. It was created by the GIS Lab at the Newman Library at Baruch College CUNY as part of the NYC Mass Transit Spatial Layers series, so that members of the public could have access to well-documented and readily-usable GIS layers of NYC mass transit features.

Disclaimer: Every effort was made to insure that the data, which was compiled from public sources, was processed accurately. The creator, Baruch College, and CUNY disclaim any liability for errors, inaccuracies, or omissions that may be contained therein or for any damages that may arise from the foregoing. Users should independently verify the accuracy of the data for their purposes. The data is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International
RESOURCE CONSTRAINTS
LEGAL CONSTRAINTS
ACCESS CONSTRAINTS  licenseUnrestricted
USE CONSTRAINTS  license

SPATIAL REPRESENTATION TYPE  vector

PROCESSING ENVIRONMENT  Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.3.1.4959

EXTENT
EXTENT DESCRIPTION
City of New York

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
  EXTENT CONTAINS THE RESOURCE  true
  WEST LONGITUDE  -74.25344
  EAST LONGITUDE  -73.754305
  NORTH LATITUDE  40.903222
  SOUTH LATITUDE  40.512764

TEMPORAL EXTENT
BEGINNING DATE  2017-01-12  00:00:00
ENDING DATE
  INDETERMINATE TIME  unknown

SUPPLEMENTAL INFORMATION
The field route_shor contains the common letters and numbers used to identify trains on official subway maps. The express services for the J (Z train) and 6 and 7 (diamond trains) are not stored as individual lines in this file, but are consolidated with their local lines as they share the same track.

POINT OF CONTACT - POINTOFCONTACT
ORGANIZATION'S NAME  Newman Library, Baruch CUNY
CONTACT'S POSITION  Geospatial Data Librarian

CONTACT INFORMATION

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Spatial Representation - Vector

LEVEL OF TOPOLOGY FOR THIS DATASET  geometryOnly
GEOMETRIC OBJECTS
  OBJECT TYPE  composite
  OBJECT COUNT  25

Reference System Information

REFERENCE SYSTEM IDENTIFIER
  VALUE  2263

CODESPACE  EPSG
VERSION  10.2

Data Quality Information

SCOPE OF QUALITY INFORMATION
  RESOURCE LEVEL  dataset

LINEAGE
  LINEAGE STATEMENT
    This line layer was created using the data feeds from the Metropolitan Transportation Authority (MTA). The MTA provides text files that contain route information in a General Transit Feed Specification (GTFS) format, and are geographically referenced so they are able to be plotted. Python scripts were written to take the text files as input, process them and save them as a spatial layer. The text file used for geometry creation is 'shapes.txt' and it provides geographically referenced data for the routes in the form of points. The script creates geometry object out of the individual points provided for the route, and then creates a line geometry object out of the points grouped by the common id of the segment that they belong to. Then it joins created geometry object with data from text files, 'trips.txt' and 'routes.txt', which contain additional relevant information provided by the MTA. Based on common attribute, individual rail services for different times and days of the week, are dissolved to create lines that represented an individual route. Certain segments, which represented late night or weekend service, on the 2,4,5,E, and N trains were removed. Attribute columns that were blank, redundant, or that represented information that was only relevant to specific services and not to individual routes were removed. A column called group was added; it groups individual lines into their trunk lines. The final layer was reprojected from NAD 83 to NY State Plane.
Long Island in feet and saved in a shapefile format. The unique ID is route_id, a field created by the MTA that uses the familiar letter or number designation for trains, with distinct ids for each of the three shuttle (S) trains. In January 2017, MTA's GTFS feeds didn't contain the data for the recently-relaunched W line and for rerouted Q line. These lines were digitized manually using MTA's most recent maps as a reference. This layer was created as part of the NYC Mass Transit Spatial Layers series, and is updated biannually to account for changes in the transit system.

Source data
Level of the source data Metropolitan Transportation Authority

Source citation
Title MTA NYC Transit Shapes, Trips and Routes Files
Publication date 2017-01-12

Distribution Information

Distributor
Distributor information - point of contact
Organization's name Newman Library, Baruch CUNY
Contact's position Geospatial Data Librarian

Contact information
Address
Delivery point Newman Library, Baruch CUNY
Delivery point 151 E 25th St Box H-0520
City New York
Administrative area NY
Postal code 10010
Country United States

Format
Name Shapefile
Version
Nil reason missing

Transfer options
Transfer size 0.222

Metadata Information

Last update 2017-02-10
Maintenance
Update frequency biannually

Maintenance notes This metadata record was updated by Anastasia Clark in January 2017

Metadata constraints
Constraints
Limitations of use
Metadata for this layer is licensed under a Creative Commons Attribution-NonCommercial license CC BY-NC http://creativecommons.org/licenses/by-nc/4.0/. You are free to share and to adapt the metadata as long as you cite the source and do not use it for commercial purposes.

**METADATA CONTACT** - POINTOFCONTACT
- **ORGANIZATION'S NAME**: Newman Library, Baruch CUNY
- **CONTACT'S POSITION**: Geospatial Data Librarian

**CONTACT INFORMATION**
- **ADDRESS**
  - DELIVERY POINT: 151 E 25th St Box H-0520
  - DELIVERY POINT: Newman Library, Baruch CUNY
  - CITY: New York
  - ADMINISTRATIVE AREA: NY
  - POSTAL CODE: 10010
  - COUNTRY: UNITED STATES

**SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset**

**METADATA LANGUAGE**: English

**METADATA CHARACTER SET**: utf8

**NAME OF THE METADATA STANDARD USED**: NAP - Metadata

**VERSION OF THE METADATA STANDARD**: 1.2

**METADATA IDENTIFIER**: 6BDC71ED-AFBC-4D19-9901-F0184188FB34

**URI OF THE DATA DESCRIBED BY THE METADATA**
https://www.baruch.cuny.edu/confluence/display/geoportal/NYC+Mass+Transit+Spatial+Layers

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