

Package ‘tinytiger’

October 18, 2023

Title Lightweight Interface to TIGER/Line Shapefiles

Version 0.0.8

Description Download geographic shapes from the United States Census Bureau TIGER/Line Shapefiles <<https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.html>>.

Functions support downloading and reading in geographic boundary data.

All downloads can be set up with a cache to avoid multiple downloads.

Data is available back to 2000 for most geographies.

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Depends R (>= 2.10)

Imports rlang, cli, glue, curl, sf

Suggests knitr, rappdirs, rmarkdown, testthat (>= 3.0.0)

Encoding UTF-8

RoxygenNote 7.2.3

LazyData true

URL <https://github.com/alarm-redis/tinytiger>,
<https://alarm-redis.org/tinytiger/>

BugReports <https://github.com/alarm-redis/tinytiger/issues>

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

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county_fips_2020

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county_fips_2020 *Counties FIPS 2020*

Description

Contains three columns:

- state: state FIPS
- county: county FIPS
- name: county name

Usage

```
data("county_fips_2020")
```

Value

tibble

tt_address_ranges *Download TIGER shapes for Address Ranges*

Description

Download TIGER shapes for Address Ranges

Usage

```
tt_address_ranges(state, county, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
county	FIPS codes or full names of counties. Optional.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_address_ranges("DE", county = "001")) # downloads slow on CRAN
```

tt_ai_an_nh_areas	<i>Download TIGER shapes for American Indian / Alaska Native / Native Hawaiian Areas</i>
-------------------	--

Description

Download TIGER shapes for American Indian / Alaska Native / Native Hawaiian Areas

Usage

```
tt_ai_an_nh_areas(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_ai_an_nh_areas())
```

tt_anrc	<i>Download TIGER shapes for Alaska Native Regional Corporation (Alaska)</i>
---------	--

Description

Download TIGER shapes for Alaska Native Regional Corporation (Alaska)

Usage

```
tt_anrc(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_anrc()) # downloads slow on CRAN
```

tt_area_landmarks *Download TIGER shapes for Area Landmarks*

Description

Download TIGER shapes for Area Landmarks

Usage

```
tt_area_landmarks(state, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_area_landmarks("DE")) # downloads slow on CRAN
```

tt_area_water *Download TIGER Shapes for Area Water*

Description

Download TIGER Shapes for Area Water

Usage

```
tt_area_water(state, county, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
county	FIPS codes or full names of counties. Optional.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_area_water("DE")) # downloads slow on CRAN
```

tt_blocks	<i>Download TIGER shapes for blocks</i>
-----------	---

Description

Download TIGER shapes for blocks

Usage

```
tt_blocks(state, county, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
county	FIPS codes or full names of counties. Optional.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_blocks(state = "DE", county = "001"))
```

tt_block_groups	<i>Download TIGER shapes for block groups</i>
-----------------	---

Description

Download TIGER shapes for block groups

Usage

```
tt_block_groups(state, county, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
county	FIPS codes or full names of counties. Optional.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_block_groups(state = "DE", county = "001")) # downloads slow on CRAN
```

tt_cache_size *Work with the the tinytiger cache*

Description

Functions to inspect and clear the cache. If the cache is not enabled, uses a temporary directory.

Usage

```
tt_cache_size()

tt_cache_clear(force = FALSE)

tt_cache_path()
```

Arguments

force FALSE by default. Asks the user to confirm if interactive. Does not clear cache if force is FALSE and not interactive.

Value

For `tt_cache_size()`, the size in bytes, invisibly
For `tt_cache_clear()`, the path to the cache, invisibly.
For `tt_cache_path()`, the path to the cache

Examples

```
tt_cache_size()

tt_cache_clear()

tt_cache_path()
```

`tt_cbsa`*Download TIGER shapes for Core Based Statistical Areas*

Description

Download TIGER shapes for Core Based Statistical Areas

Usage

```
tt_cbsa(year = 2021)
```

Arguments

`year` Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_cbsa()) # downloads slow on CRAN
```

`tt_coastline`*Download TIGER shapes for Coastlines*

Description

Download TIGER shapes for Coastlines

Usage

```
tt_coastline(year = 2022)
```

Arguments

`year` Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_coastline()) # downloads slow on CRAN
```

```
tt_congressional_districts
```

Download TIGER shapes for congressional districts

Description

Download TIGER shapes for congressional districts

Usage

```
tt_congressional_districts(state, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_congressional_districts()) # downloads slow on CRAN
```

```
tt_consolidated_cities
```

Download TIGER shapes for Public Use Microdata Areas

Description

Download TIGER shapes for Public Use Microdata Areas

Usage

```
tt_consolidated_cities(state, year = 2022)
```

Arguments

state FIPS, postal codes, or full names of states.
year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_consolidated_cities("CT")) # downloads slow on CRAN
```

tt_counties *Download TIGER shapes for counties*

Description

Download TIGER shapes for counties

Usage

```
tt_counties(state, year = 2022)
```

Arguments

state FIPS, postal codes, or full names of states.
year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# takes > 5 seconds  
# Wrapped in try due to false positive 304 errors  
try(tt_counties(state = "DE")) # downloads slow on CRAN
```

`tt_county_subdivisions`*Download TIGER shapes for County Subdivisions*

Description

Download TIGER shapes for County Subdivisions

Usage

```
tt_county_subdivisions(state, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_county_subdivisions("DE")) # downloads slow on CRAN
```

`tt_csa`*Download TIGER shapes for Combined Statistical Area*

Description

Download TIGER shapes for Combined Statistical Area

Usage

```
tt_csa(year = 2021)
```

Arguments

year	Integer year. Required. 2000 and 2010-2022 are currently supported.
------	---

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_csa())
```

```
tt_elementary_school_districts  
  Download TIGER shapes for Elementary School Districts
```

Description

Download TIGER shapes for Elementary School Districts

Usage

```
tt_elementary_school_districts(state, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_elementary_school_districts("AZ")) # downloads slow on CRAN
```

```
tt_estates  
  Download TIGER shapes for Estates (US Virgin Islands)
```

Description

Download TIGER shapes for Estates (US Virgin Islands)

Usage

```
tt_estates(year = 2022)
```

Arguments

year	Integer year. Required. 2000 and 2010-2022 are currently supported.
------	---

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_estates()) # downloads slow on CRAN
```

tt_linear_water	<i>Download TIGER Shapes for Linear Water</i>
-----------------	---

Description

Download TIGER Shapes for Linear Water

Usage

```
tt_linear_water(state, county, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
county	FIPS codes or full names of counties. Optional.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_linear_water("DE")) # downloads slow on CRAN
```

tt_metropolitan_divisions

Download TIGER shapes for Metropolitan Divisions

Description

Download TIGER shapes for Metropolitan Divisions

Usage

```
tt_metropolitan_divisions(year = 2021)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_metropolitan_divisions()) # downloads slow on CRAN
```

tt_military

Download TIGER shapes for Military Installations

Description

Download TIGER shapes for Military Installations

Usage

```
tt_military(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_military()) # downloads slow on CRAN
```

tt_new_england_cities *Download TIGER shapes for New England City and Town Area*

Description

Download TIGER shapes for New England City and Town Area

Usage

```
tt_new_england_cities(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_new_england_cities()) # downloads slow on CRAN
```

tt_new_england_city_divisions
Download TIGER shapes for New England City and Town Area Divisions

Description

Download TIGER shapes for New England City and Town Area Divisions

Usage

```
tt_new_england_city_divisions(year = 2021)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_new_england_city_divisions()) # downloads slow on CRAN
```

```
tt_new_england_combined_areas
```

Download TIGER shapes for New England Combined City and Town Areas

Description

Download TIGER shapes for New England Combined City and Town Areas

Usage

```
tt_new_england_combined_areas(year = 2021)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_new_england_combined_areas()) # downloads slow on CRAN
```

```
tt_places
```

Download TIGER shapes for Places

Description

Download TIGER shapes for Places

Usage

```
tt_places(state, year = 2022)
```

Arguments

state FIPS, postal codes, or full names of states.
year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_places("DE")) # downloads slow on CRAN
```

tt_point_landmarks *Download TIGER shapes for Point Landmarks*

Description

Download TIGER shapes for Point Landmarks

Usage

```
tt_point_landmarks(state, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_point_landmarks("DE")) # downloads slow on CRAN
```

tt_polygon_edges *Download TIGER shapes for Polygon Edges*

Description

Download TIGER shapes for Polygon Edges

Usage

```
tt_polygon_edges(state, county, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
county	FIPS codes or full names of counties. Optional.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_polygon_edges("DE", county = "001")) # downloads slow on CRAN
```

tt_polygon_faces	<i>Download TIGER shapes for Polygon Faces</i>
------------------	--

Description

Download TIGER shapes for Polygon Faces

Usage

```
tt_polygon_faces(state, county, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
county	FIPS codes or full names of counties. Optional.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_polygon_faces("DE", county = "001")) # downloads slow on CRAN
```

tt_primary_roads *Download TIGER shapes for Primary Roads*

Description

Download TIGER shapes for Primary Roads

Usage

```
tt_primary_roads(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_primary_roads()) # downloads slow on CRAN
```

tt_primary_secondary_roads *Download TIGER shapes for Primary and Secondary Roads*

Description

Download TIGER shapes for Primary and Secondary Roads

Usage

```
tt_primary_secondary_roads(state, year = 2022)
```

Arguments

state FIPS, postal codes, or full names of states.
year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_primary_secondary_roads("DE")) # downloads slow on CRAN
```

tt_puma	<i>Download TIGER shapes for Public Use Microdata Areas</i>
---------	---

Description

Download TIGER shapes for Public Use Microdata Areas

Usage

```
tt_puma(state, year = 2021)
```

Arguments

state	FIPS, postal codes, or full names of states.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_puma("DE")) # downloads slow on CRAN
```

tt_rails	<i>Download TIGER shapes for Rails</i>
----------	--

Description

Download TIGER shapes for Rails

Usage

```
tt_rails(year = 2022)
```

Arguments

year	Integer year. Required. 2000 and 2010-2022 are currently supported.
------	---

Value

sf data.frame

Examples

```
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_rails()) # downloads slow on CRAN
```

tt_roads	<i>Download TIGER shapes for Roads</i>
----------	--

Description

Download TIGER shapes for Roads

Usage

```
tt_roads(state, county, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
county	FIPS codes or full names of counties. Optional.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_roads("DE")) # downloads slow on CRAN
```

tt_secondary_school_districts	<i>Download TIGER shapes for Secondary School Districts</i>
-------------------------------	---

Description

Download TIGER shapes for Secondary School Districts

Usage

```
tt_secondary_school_districts(state, year = 2022)
```

Arguments

state FIPS, postal codes, or full names of states.
year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_secondary_school_districts("AZ")) # downloads slow on CRAN
```

tt_states *Download TIGER shapes for states*

Description

Download TIGER shapes for states

Usage

```
tt_states(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_states())
```

tt_state_leg_lower *Download TIGER shapes for lower state legislative districts*

Description

Download TIGER shapes for lower state legislative districts

Usage

```
tt_state_leg_lower(state, year = 2022)
```

Arguments

state FIPS, postal codes, or full names of states.
year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_state_leg_lower("DE")) # downloads slow on CRAN
```

tt_state_leg_upper *Download TIGER shapes for upper state legislative districts*

Description

Download TIGER shapes for upper state legislative districts

Usage

```
tt_state_leg_upper(state, year = 2022)
```

Arguments

state FIPS, postal codes, or full names of states.
year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_state_leg_lower("DE")) # downloads slow on CRAN
```

tt_subbarrios	<i>Download TIGER shapes for Subbarrios (Puerto Rico)</i>
---------------	---

Description

Download TIGER shapes for Subbarrios (Puerto Rico)

Usage

```
tt_subbarrios(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_subbarrios()) # downloads slow on CRAN
```

tt_tracts	<i>Download TIGER shapes for tracts</i>
-----------	---

Description

Download TIGER shapes for tracts

Usage

```
tt_tracts(state, county, year = 2022)
```

Arguments

state FIPS, postal codes, or full names of states.
 county FIPS codes or full names of counties. Optional.
 year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_tracts(state = "DE", county = "001")) # downloads slow on CRAN
```

```
tt_tribal_block_groups
```

Download TIGER shapes for Tribal Block Groups

Description

Download TIGER shapes for Tribal Block Groups

Usage

```
tt_tribal_block_groups(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_tribal_block_groups())
```

```
tt_tribal_subdivisions
```

Download TIGER shapes for American Indian Tribal Subdivision National

Description

Download TIGER shapes for American Indian Tribal Subdivision National

Usage

```
tt_tribal_subdivisions(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_tribal_subdivisions())
```

tt_tribal_tracts *Download TIGER shapes for Tribal Tracts*

Description

Download TIGER shapes for Tribal Tracts

Usage

```
tt_tribal_tracts(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors  
try(tt_tribal_tracts())
```

tt_uac *Download TIGER shapes for Urban Area*

Description

Download TIGER shapes for Urban Area

Usage

```
tt_uac(year = 2022)
```

Arguments

year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_uac()) # downloads slow on CRAN
```

tt_unified_school_districts
Download TIGER shapes for Unified School Districts

Description

Download TIGER shapes for Unified School Districts

Usage

```
tt_unified_school_districts(state, year = 2022)
```

Arguments

state FIPS, postal codes, or full names of states.
year Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_unified_school_districts("DE")) # downloads slow on CRAN
```

```
tt_voting_districts    Download TIGER shapes for Voting Districts
```

Description

Download TIGER shapes for Voting Districts

Usage

```
tt_voting_districts(state, county, year = 2022)
```

Arguments

state	FIPS, postal codes, or full names of states.
county	FIPS codes or full names of counties. Optional.
year	Integer year. Required. 2000 and 2010-2022 are currently supported.

Value

sf data.frame

Examples

```
# Wrapped in try due to false positive 304 errors
try(tt_voting_districts("DE", county = "001")) # downloads slow on CRAN
```

```
tt_zcta                Download TIGER shapes for Zip Code Tabulation Areas
```

Description

Download TIGER shapes for Zip Code Tabulation Areas

Usage

```
tt_zcta(year = 2022)
```

Arguments

year	Integer year. Required. 2000 and 2010-2022 are currently supported.
------	---

Value

sf data.frame

Examples

```
# takes > 5 seconds
# Wrapped in try due to false positive 304 errors
try(tt_zcta()) # downloads slow on CRAN
```

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