Package ‘tinytiger’

June 4, 2024

Title Lightweight Interface to TIGER/Line Shapefiles

Version 0.0.9

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 cli, glue, curl, sf

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

Encoding UTF-8

RoxygenNote 7.3.1

LazyData true

URL https://github.com/alarm-redist/tinytiger,
https://alarm-redist.org/tinytiger/

BugReports https://github.com/alarm-redist/tinytiger/issues

Config/testthat/edition 3

VignetteBuilder knitr

NeedsCompilation no

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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 = 2023)
```

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

Description

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

Usage

```
tt_ai_an_nh_areas(year = 2023)
```

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 *Download TIGER shapes for Alaska Native Regional Corporation (Alaska)*

Description

Download TIGER shapes for Alaska Native Regional Corporation (Alaska)

Usage

```
tt_anrc(year = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 *Download TIGER shapes for blocks*

Description

Download TIGER shapes for blocks

Usage

```
tt_blocks(state, county, year = 2023)
```

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 *Download TIGER shapes for block groups*

Description

Download TIGER shapes for block groups

Usage

```
tt_block_groups(state, county, year = 2023)
```

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()`, tthe size in bytes, invisbly

For `tt_cache_clear()`, the path to the cache, invisbly.

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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` *Download TIGER Shapes for Linear Water*

Description

Download TIGER Shapes for Linear Water

Usage

```
tt_linear_water(state, county, year = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 *Download TIGER shapes for Polygon Faces*

Description

Download TIGER shapes for Polygon Faces

Usage

```
tt_polygon_faces(state, county, year = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 *Download TIGER shapes for Public Use Microdata Areas*

Description

Download TIGER shapes for Public Use Microdata Areas

Usage

```
tt_puma(state, year = 2023)
```

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 *Download TIGER shapes for Rails*

Description

Download TIGER shapes for Rails

Usage

```
tt_rails(year = 2023)
```

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 *Download TIGER shapes for Roads*

Description

Download TIGER shapes for Roads

Usage

```
tt_roads(state, county, year = 2023)
```

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 *Download TIGER shapes for Secondary School Districts*

Description

Download TIGER shapes for Secondary School Districts

Usage

```
tt_secondary_school_districts(state, year = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 *Download TIGER shapes for Subbarrios (Puerto Rico)*

Description

Download TIGER shapes for Subbarrios (Puerto Rico)

Usage

```
tt_subbarrios(year = 2023)
```

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 *Download TIGER shapes for tracts*

Description

Download TIGER shapes for tracts

Usage

```
tt_tracts(state, county, year = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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 = 2023)
```

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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