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-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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Description
Contains three columns:
• state: state FIPS
• county: county FIPS
• name: county name

Usage
data("county_fips_2020")

Value
tibble

tt_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  

**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**

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

---

tt_anrc  

**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**

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

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

**Description**

Download TIGER shapes for blocks

**Usage**

```r
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

**Description**

Download TIGER shapes for block groups

**Usage**

```r
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.
**tt_cache_size**

**Value**

sf data.frame

**Examples**

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

---

**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**

```r
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**

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

**Arguments**

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

**Value**

- `sf` data.frame

**Examples**

```r
# 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**

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

**Arguments**

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

**Value**

- `sf` data.frame
**tt_congressional_districts**

**Examples**

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

**Description**

Download TIGER shapes for congressional districts

**Usage**

```r
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**

```r
# 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**

```r
tt_consolidated_cities(state, year = 2022)
```
### tt_counties

**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**

```r
# 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**

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

Description

Download TIGER shapes for County Subdivisions

Usage

```r
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

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

tt_csa

Description

Download TIGER shapes for Combined Statistical Area

Usage

```r
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**

```r
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**

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

**Arguments**

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

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 = 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**

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

**Arguments**

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

**Value**

sf data.frame

**Examples**

```r
# 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**

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

**Arguments**

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

**Value**

sf data.frame

**Examples**

```r
# 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**  
```r
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**  
```r
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**

`sfs` 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**

`sfs` data.frame
**tt_point_landmarks**  
*Download TIGER shapes for Point Landmarks*

**Description**
Download TIGER shapes for Point Landmarks

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

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

**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_primary_roads**

*Download TIGER shapes for Primary Roads*

**Description**

Download TIGER shapes for Primary Roads

**Usage**

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

**Arguments**

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

**Value**

sf data.frame

**Examples**

```r
# 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**

```r
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**

*Download TIGER shapes for Public Use Microdata Areas*

**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**

*Download TIGER shapes for Rails*

**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**

```r
# 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**

```r
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**

```r
# 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**


**Usage**

```r
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 ==

**Description**

Download TIGER shapes for states

**Usage**

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

**Arguments**

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

**Value**

sf data.frame

**Examples**

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

**Description**

Download TIGER shapes for lower state legislative districts

**Usage**

```r
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**

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

### tt_state_leg_upper

**Description**

Download TIGER shapes for upper state legislative districts

**Usage**

```r
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**

*Download TIGER shapes for Subbarrios (Puerto Rico)*

**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**

*Download TIGER shapes for tracts*

**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.
tt_tribal_block_groups

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

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

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())

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**

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

**Arguments**

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

**Value**

sf data.frame

**Examples**

```r
# 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**

```r
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

`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**

`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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