# Package 'RCaucTile'

August 27, 2025

Description Generates tile maps for the East Caucasian language family, inspired by the Typologi-

ages 'ggplot2' to create visually informative maps, displaying rectangles for each lan-

cal Atlas of the Languages of Daghestan (TALD, <a href="https://lingconlab.ru/tald/">https://lingconlab.ru/tald/</a>). It lever-

guage and allowing for color-coding based on linguistic features. The package includes a built-

Type Package

Version 1.0.0

Title Tile Grid Maps for East Caucasian Languages

in dataset of 56 languages and the template for their distribution and provides flexibility to customize the tile map's appearance. The default template can be modified via the ability to hide or rename languages. It's designed to be used with external data tables containing language information and features, offering a tool for visualizing the geographic distribu-
tion and linguistic characteristics of East Caucasian languages.
License GPL (>= 3)
Encoding UTF-8
LazyData true
<b>Depends</b> R (>= 4.1.0)
Imports ggplot2
RoxygenNote 7.3.2.9000
NeedsCompilation no
Author George Moroz [aut, cre] (ORCID: <a href="https://orcid.org/0000-0003-1990-6083">https://orcid.org/0000-0003-1990-6083</a> )
Maintainer George Moroz <agricolamz@gmail.com></agricolamz@gmail.com>
Repository CRAN
<b>Date/Publication</b> 2025-08-27 12:00:24 UTC
Contents
ec_languages       2         ec_tile_map       3
Index 5

2 ec\_languages

ec\_languages

Catalogue of East Caucasian languages

# Description

A dataset containes metadata on East Caucasian languages that helps RCaucTile to function.

## Usage

ec\_languages

#### **Format**

A data frame with 56 rows and 11 variables:

**language** - language name

x - suggested x coordinate for the tile map

y - suggested y coordinate for the tile map

branch - language branch

family - language family

glottocode - language glottocode

language\_color - suggested language color

branch\_color - suggested branch color

abbreviation - suggested abbreviation

morning\_greetings This variable contains values from the "Morning Greetings" chapter (Naccarato, Verhees 2021) from the Typological Atlas of the Languages of Daghestan. The languages of Daghestan can be classified into three groups according to whether they feature morning greetings including questions about the night's rest (value 'Did you wake up¿), based on the combination of concepts like "morning" and "good" (value 'Good morning'), and both stratagies (value 'Both').

**consonant\_inventory\_size** This variable contains consonant inventory sizes based on "Phonology" chapter (Moroz 2021) from the Typological Atlas of the Languages of Daghestan.

#### References

Moroz, George (2021). "On phonology of East Caucasian languages". In: Typological Atlas of the Languages of Daghestan (TALD), v 2.0.0. Ed. by Michael Daniel, Konstantin Filatov, Timur Maisak, George Moroz, Timofey Mukhin, Chiara Naccarato and Samira Verhees. Moscow: Linguistic Convergence Laboratory, NRU HSE. DOI: 10.5281/zenodo.6807070. https://lingconlab.ru/tald.

Naccarato, Chiara and Samira Verhees (2021). "Morning greetings". In: Typological Atlas of the Languages of Daghestan (TALD), v 2.0.0. Ed. by Michael Daniel, Konstantin Filatov, Timur Maisak, George Moroz, Timofey Mukhin, Chiara Naccarato and Samira Verhees. Moscow: Linguistic Convergence Laboratory, NRU HSE. DOI: 10.5281/zenodo.6807070. https://lingconlab.ru/tald.

3 ec\_tile\_map

ec\_tile\_map

Draw a grid tile map for East Caucasian languages.

## **Description**

Draw a grid tile map for East Caucasian languages.

# Usage

```
ec_tile_map(
  data = NULL,
  feature_column = "feature",
  title = NULL,
  title_position = "left",
  annotate_feature = FALSE,
  abbreviation = TRUE,
  hide_languages = NULL,
  rename_languages = NULL
)
```

## **Arguments**

data

Could be NULL, then it will print the language template. Otherwise should be a dataframe with language column annotated with some feature. Default value is NULL.

feature\_column Character vector of length 1 which specifies the column in dataframe that contains annotation for the feature to color the language template with.

title

Character vector of length 1, which specifies the title of the plot.

title\_position Character vector of length 1, which specifies the title's position. Possible values are left, center, and right. Default value is left.

annotate\_feature

Logical variable that specifies, whether to add feature values on the tile. This especially make sense in case of numeric features. Default value is FALSE.

abbreviation

Logical variable that specifies, whether use abbreviations for languages specified in the package. Default value is TRUE.

hide\_languages

Character variable that specifies, which languages should be removed from the template.

rename\_languages

This variable maps old language names to their corresponding new names. It can be represented as either:

- A named vector, where names are the old language names and values are the corresponding new language names.
- A data frame with two columns: language (the old language names) and new\_language\_name (the corresponding new language names).

4 ec\_tile\_map

# Value

```
a 'ggplot2' object
```

# Examples

# **Index**

```
* datasets
ec_languages, 2
ec_languages, 2
ec_tile_map, 3
```