

- 1 regioncode: Convert Region Names and Division Codes
- ₂ of China Over Years
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Software

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Summary

The Chinese government gives unique geocodes for each county, city (prefecture), and provincial-level administrative unit. The so-called "administrative division codes" were consistently adjusted to matched national and regional plans of development. Geocode adjustments disturb researchers when they merge data with different versions of geocodes or region names. Especially, when researchers render statistical data on a Chinese map, different geocodes between map data and statistical data may cause mess-up data output or visualization.

The package is developed to conquer such difficulties to match regional data across years more conveniently and correctly. Inspired by Vincent Arel-Bundock's well-known countrycode (Arel-Bundock et al., 2018), we created regioncode to achieve similar functions specifically for China studies. regioncode enables seamlessly converting formal names, common-used names, and division codes of Chinese prefecture regions between each other and across thirty-four years from 1986 to 2019.

In the current version, we provide three basic functions2code, 2name, and 2sname to convert formal names, common-used names, and division codes between each other. We also provide some useful features: incompleteName, which completes incomplete parameters; 2area, which converts region codes and names of the region into the municipal area that they belong to; topinyin, which convert the names or areas into the form of pinyin; and language_trans, which offers a function to convert the name of prefecture from any year to language(local dialect) zone.

Examples

library(regioncode)

Division codes to region name



```
regioncode(data_input = corruption$prefecture_id,
           year_from = 2019,
           year_to = 1999,
           method = "2name")
# Advanced Usages
## Incomplete input
### Full, official names
corruption$prefecture
### Incomplete names
corruption$prefecture_sname
### Converting
regioncode(data_input = corruption$prefecture_sname;
           year_from = 2019,
           year_to = 1999,
           method = "2code",
           incompleteName = "from")
## Language zone translation
regioncode(data_input = corruption$prefecture_name,
           year_from = 2019,
           year_to = 1999,
           language_zone = TRUE,
           language_trans = 'dia_group')
```

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- ²⁹ Weihang Shao, and Yuanqian Chen.

30 References

Arel-Bundock, V., Enevoldsen, N., & Yetman, C. (2018). Countrycode: An r package to convert country names and country codes. *Journal of Open Source Software*, *3*(28), 848. https://doi.org/10.21105/joss.00848

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