

Package ‘ifctools’

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Title Italian Fiscal Code ('Codice Fiscale') Utilities

Version 0.3.6

Description Provides utility functions to deal with Italian fiscal code ('codice fiscale').

URL <https://github.com/lbraglia/ifctools>

BugReports <https://github.com/lbraglia/ifctools/issues>

Depends R (>= 3.1.1)

License GPL-3

Suggests testthat

RoxygenNote 7.2.3

Encoding UTF-8

NeedsCompilation yes

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Contents

| | |
|--------------------|---|
| guess_fc | 2 |
| wrong_fc | 3 |

| | |
|--------------|----------|
| Index | 4 |
|--------------|----------|

`guess_fc`*Guess Italian Fiscal Code*

Description

The function tries to guess regular fiscal code, extracting relevant alphanumeric digits from surname, name, birth date, gender and 'codice catastale' (computing the last character, the control digit).

Usage

```
guess_fc(  
  surname = NULL,  
  name = NULL,  
  birth_date = NULL,  
  female = NULL,  
  codice_catastale = NULL  
)
```

Arguments

| | |
|-------------------------------|---|
| <code>surname</code> | character, surname |
| <code>name</code> | character, names |
| <code>birth_date</code> | Date, date of birth |
| <code>female</code> | logical, female indicator variable (FALSE = man, TRUE = woman) |
| <code>codice_catastale</code> | Italian 'codice catastale' (an identifier) of the 'comune' of birth |

Value

The function return a character vector of fiscal code.

Examples

```
## using fictitious data  
Surnames <- c("Rossi", "Bianchi")  
Names <- c("Mario", "Giovanna")  
Birthdates <- as.Date(c("1960-01-01", "1970-01-01"))  
Female <- c(FALSE, TRUE)  
Comune_of_birth <- c("F205", # milan  
                    "H501") # rome  
guess_fc(Surnames, Names, Birthdates, Female, Comune_of_birth)
```

`wrong_fc`*Check Italian fiscal codes*

Description

The function performs fiscal codes check (both regular and temporary ones), computing the last (control) character basing on the others. The algorithm is intended to be quite "draconian", so you'll better make some pre-cleaning (keep only alphabetic characters and uppercase) if needed. See examples.

Usage

```
wrong_fc(fc)
```

Arguments

`fc` A character vector of fiscal codes.

Value

The function return TRUE if the fiscal code is wrong, FALSE otherwise.

References

Law source: D.M. (Ministry of Finance) n. 13813 - 23/12/76 - "Sistemi di codificazione dei soggetti da iscrivere all'anagrafe tributaria". Supp. ord. G.U. 345 29/12/1976.

Examples

```
fc <- c(NA, "qWeASd34D12h 221M ", " 12312312312 ")
wrong_fc(fc)
fc <- gsub(" ", "", toupper(fc))
wrong_fc(fc)
```

Index

`guess_fc`, [2](#)

`wrong_fc`, [3](#)