Package ‘ifctools’

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Title Italian Fiscal Code (‘Codice Fiscale’) Utilities
Version 0.3.4
Description Provides utility functions to deal with Italian fiscal code (‘codice fiscale’).

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**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**

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

**Arguments**

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

**Value**

The function return a character vector of fiscal code.

**Examples**

```r
## using fictious 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", "H501")
guess_fc(Surnames, Names, Birthdates, Female, Comune_of_birth)
```
ifctools  Miscellaneous utils for Italian fiscal codes

Description

These package provide tools to deal with fiscal codes: a function to check if the fiscal code is valid (wrong_fc) and another to guess the code given personal data (guess_fc).

Details

Fiscal codes are far from perfect but ubiquitous personal id codes in Italy, especially useful for merge purposes from a data analyst standpoint.

WARNING: provided routines aim to be reasonably good. Unfortunately can’t be perfect since, as wikipedia puts it, "On the internet, there are several web sites and software packages that allow one to calculate one’s tax code. However, the only official tax code is the one provided by the tax office, which handles cases of identical tax codes (which is a pretty frequent case for people not born in Italy, as in this case the 4-characters town code in the codice fiscale is replace by a 3-digit country code), an arbitrary changing of a tax code, as well as cases where a code is incorrect, but still valid (because provided by the tax office)."

For more info see https://en.wikipedia.org/wiki/Italian_fiscal_code_card.

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


Examples

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