CU53_MODEL_DEVELOPMENT_04_EJEMPLOS

June 13, 2023

#

CU53_impacto de las políticas de inversión en sanidad, infraestructuras y promoción turística en el SPI

1 IV. Model development

En este anexo se incluye el código utilizado durante el desarrollo de los modelos incluidos en el caso de uso.

1.1 Otros ejemplos

[1]:
```
Sys.setlocale(category = "LC_ALL", locale = "es_ES.UTF-8")
```

'es_ES.UTF-8/es_ES.UTF-8/es_ES.UTF-8/C/es_ES.UTF-8/C'

[2]:
```
## Ejemplos CU 53

library(readr)
library(dplyr)
library(tidyr)
library(ggplot2)
library(DT)
library(plotly)

inversiones <- read_csv("CU_53_05_05_inversiones_cm.csv")


## Datos para la tabla de inversiones
inversiones |> pivot_wider(names_from = "grupo", values_from = "inversion") |>
  datatable()

spi <- read_csv("CU_53_05_02_01_spi.csv")
spi_meta <- read_csv("CU_53_05_02_02_spi_metadata.csv")

## Filtro año para mapa
ano <- 2017
frole <- "SPI"
```

```r
## Variables a seleccionar
fvars <- spi_meta |>
  filter(role == frole) |>
  pull(id_var)

## Un valor por país para un año, para el mapa
spi |> filter(spiyear == 2017) |>
  select(country, spicountrycode, all_of(fvars))

## Serie temporal

p <- inversiones |>
  ggplot(aes(x = anyo, y = inversion, col = grupo)) +
  geom_line()
  ggplotly(p)

paises <- c("World", "Spain", "Germany", "Italy")

vartoplot <- "score_spi"
spi |> filter(country %in% paises) |>
  ggplot(aes_string(x = "spiyear", y = vartoplot, col = "country")) +
  geom_line()
```

```
Attaching package: 'dplyr'


The following objects are masked from 'package:stats':

    filter, lag


The following objects are masked from 'package:base':

    intersect, setdiff, setequal, union



Attaching package: 'plotly'


The following object is masked from 'package:ggplot2':

    last_plot


The following object is masked from 'package:stats':
```

```
    filter


The following object is masked from 'package:graphics':

    layout


Rows: 24 Columns: 3
  Column specification

Delimiter: ","
chr (1): grupo
dbl (2): anyo, inversion

 Use `spec()` to retrieve the full column specification for this
data.
 Specify the column types or set `show_col_types = FALSE` to quiet
this message.
```

HTML widgets cannot be represented in plain text (need html)

```
Rows: 2364 Columns: 81
  Column specification

Delimiter: ","
chr  (3): country, spicountrycode, status
dbl (78): rank_score_spi, spiyear, score_spi, score_bhn, score_fow,
score_op…

 Use `spec()` to retrieve the full column specification for this
data.
 Specify the column types or set `show_col_types = FALSE` to quiet
this message.
Rows: 81 Columns: 8
  Column specification

Delimiter: ","
chr (8): id_var, name_var, role, Dimension, Component, Unit of
measurement, …

 Use `spec()` to retrieve the full column specification for this
data.
 Specify the column types or set `show_col_types = FALSE` to quiet
this message.
```

country	spicountrycode	score_spi
<chr>	<chr>	<dbl>
World	WWW	63.29
Afghanistan	AFG	37.87
Albania	ALB	72.57
Algeria	DZA	64.15
Angola	AGO	43.60
Argentina	ARG	77.14
Armenia	ARM	70.78
Australia	AUS	87.88
Austria	AUT	87.41
Azerbaijan	AZE	61.96
Bahrain	BHR	64.52
Bangladesh	BGD	52.81
Barbados	BRB	78.67
Belarus	BLR	73.43
Belgium	BEL	86.86
Benin	BEN	53.62
Bhutan	BTN	64.53
Bolivia	BOL	65.13
Bosnia and Herzegovina	BIH	70.61
Botswana	BWA	63.18
Brazil	BRA	72.62
Bulgaria	BGR	75.57
Burkina Faso	BFA	47.92
Burundi	BDI	40.01
Cabo Verde	CPV	67.84
Cambodia	KHM	52.92
Cameroon	CMR	49.67
Canada	CAN	87.73
Central African Republic	CAF	30.02
A tibble: 197 x 3 Chad	TCD	32.34
...	...	...
Yemen	YEM	37.73
Zambia	ZMB	50.43
Zimbabwe	ZWE	50.45
Cuba	CUB	NA
Korea, Democratic Republic of	PRK	NA
Seychelles	SYC	NA
Taiwan	TWN	NA
Vanuatu	VUT	NA
Andorra	AND	NA
Antigua and Barbuda	ATG	NA
Bahamas, The	BHS	NA
Belize	BLZ	NA
Brunei Darussalam	BRN	NA
Dominica	DMA	NA
Grenada	GRD	NA
Kiribati	KIR	NA
Kosovo	KSV	NA
Liechtenstein	LIE	NA
Marshall Islands	MHL	NA
Micronesia	FSM	NA

```
HTML widgets cannot be represented in plain text (need html)
```

```
Warning message:
"`aes_string()` was deprecated in ggplot2 3.0.0.
  Please use tidy evaluation idioms with `aes()`.
  See also `vignette("ggplot2-in-packages")` for more information."
```