



# Koronavírus

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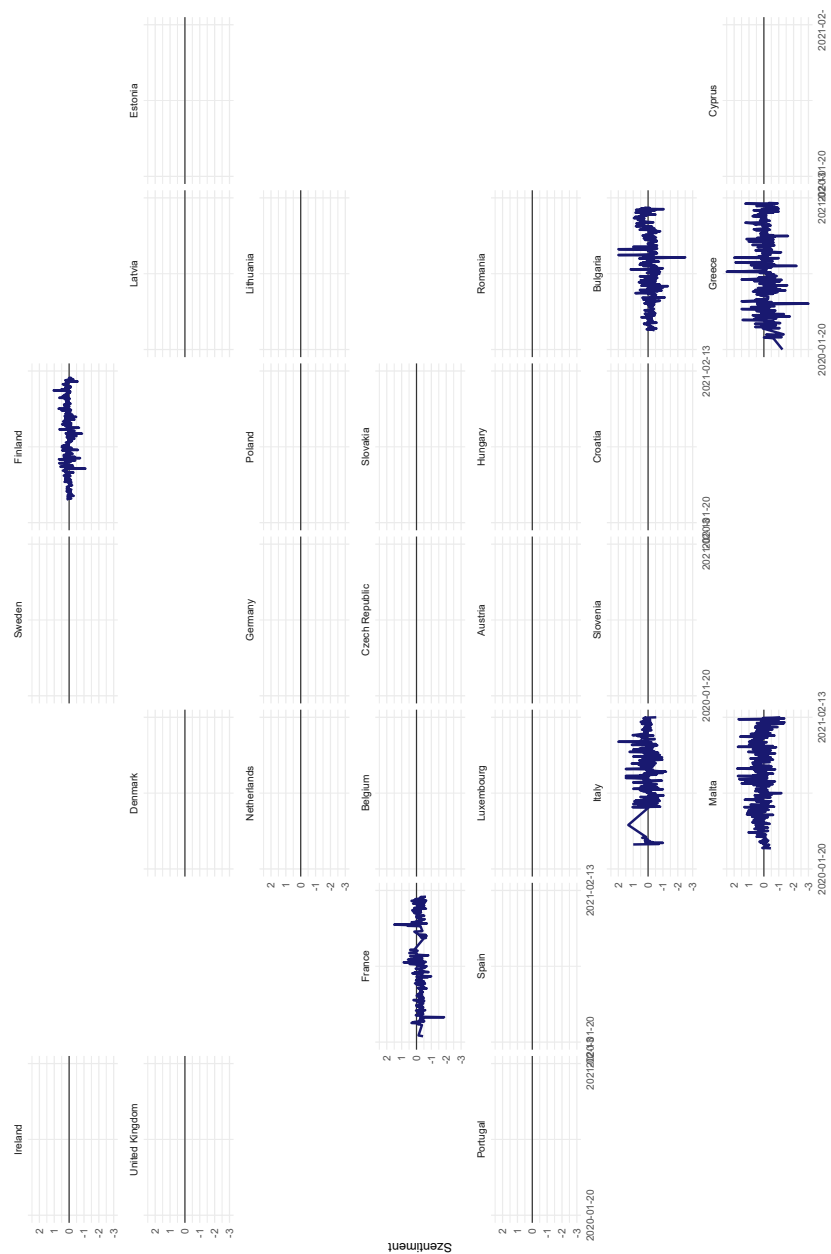
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**Absztrakt**

Here is the abstract.

## Bevezetés



1. ábra. A széntiment alakulása országoként

## Függelék: R kódok

```
1  # Set up -----
2
3  ## Packages =====
4
5  library(tidyverse)
6  library(patchwork)
7  library(knitr)
8  library(broom)
9
10 library(geofacet)
11 library(tidytext)
12
13 ## Gg theme =====
14
15 update_geom_defaults("point", list(fill = "#B1339E",
16                                     shape = 21,
17                                     color = "black",
18                                     size = 1.4))
19 update_geom_defaults("line",
20                       list(color = "midnightblue", size = 1.4))
21
22 update_geom_defaults("smooth", list(color = "red4", size = 1.4))
23
24 update_geom_defaults("density",
25                       list(color = "midnightblue", fill = "midnightblue",
26                             alpha = .3, size = 1.4))
27
28 extrafont::loadfonts(device="win")
29
30 theme_set(theme_minimal() + theme(
31   legend.direction = "vertical",
32   # text = element_text(family = "Impact"),
33   plot.caption = element_text(family = "serif")
34 ))
35
36 load("dat.RData")
37 dat <- dat %>%
38   select(date, text, country) %>%
39   {left_join(tidytext::unnest_tokens(., words, text),
40             get_sentiments("afinn"), by=c("words"="word"))} %>%
41   group_by(date, country) %>%
42   summarise(value = mean(value, na.rm = T), n = n()) %>%
43   ungroup() %>%
44   na.omit()
45
46 dat <- dat %>%
47   mutate(
48     name = str_to_title(country)
49   ) %>%
50   merge(eu_gdp)
51
52 ggplot(dat, aes(date, value)) +
```

```
53 geom_hline(yintercept = 0, color = "grey20") +  
54 geom_line(size = 1) +  
55 facet_geo(~ name, grid = "eu_grid1") +  
56 scale_x_date(limits = c(min(dat$date), max(dat$date)),  
57               breaks = c(min(dat$date), max(dat$date))) +  
58 labs(y = "Szénetiment", x = NULL)
```