

Using a simple API

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Open APIs

Most APIs require an authentication by the user, but some don't. BrightSky is a weather API that does not require an authentication and it is easy to get started.

<https://brightsky.dev/>

<https://brightsky.dev/demo/>

<https://brightsky.dev/docs/>

Retrieving the temperature in Rostock

<https://api.brightsky.dev/weather?lat=54.08&lon=12.1&date=2022-07-21>

```
#install.packages("httr")  
#install.packages("jsonlite")
```

```
library(httr)  
library(jsonlite)  
library(lubridate)
```

```
url1 = "https://api.brightsky.dev/weather?lat=54.08&lon=12.1&date=2022-07-21"  
res <- GET(url1)  
res  
rescontent <- content(res)  
  
rescontent$weather[[1]]$temperature
```

```
library(rvest)  
simple_page <- read_html("https://user.demogr.mpg.de/theile/Files/edsd/simple.html")  
print(paste(simple_page))
```

```
## [1] "<!DOCTYPE html>\n<html><body>\r\n\r\n\r\n<h1>Hello Barcelona!</h1>\r\n\r\n\r\n<p>This is some text.</p>
```

```

<!DOCTYPE html>
<html>
<body>

<h1>Hello Barcelona!</h1>

<p>This is some text.</p>

<a href="https://www.example.com">This is a link</a>
<a href="./simple2.html">This is also a link</a>
</body>
</html>

```

What temperature is it right now?

use selectorGadget to find the css selector:

```

css_selector <-".current-w-temp"

page_weather <- read_html("https://kachelmannwetter.com/de/wetter/2844588-rostock")

temperature <- page_weather %>%
  html_nodes(css_selector) %>% # This line selects all the html-elements with that css-selector
  html_text() # This extracts only the Text of the selected html-elements

print(temperature)

## [1] "27°"

```