

# Worksheet 9 - Regular Expressions I

Monday, February 24, 2025

DS 002R - Jo Hardin

Your Name: \_\_\_\_\_

Names of people you worked with: \_\_\_\_\_

What is the most challenging thing you have to do in the next 10 days?

## Task:

The Jewish Festival of Lights is written as **חנוכה** in Hebrew and translated to many different spellings in English. The correct English spelling of the holiday can be given in any of the following thirteen variants, according to <https://www.holidays.net/chanukah/spelling.htm>.

```
lights <- c("Chanuka", "Chanukah", "Chanukkah", "Channukah", "Hanukah",  
           "Hannukah", "Hanukkah", "Hanuka", "Hanukka", "Hanaka", "Haneka",  
           "Hanika", "Khanukkah")
```

```
lights
```

```
[1] "Chanuka" "Chanukah" "Chanukkah" "Channukah" "Hanukah"  
[6] "Hannukah" "Hanukkah" "Hanuka" "Hanukka" "Hanaka"  
[11] "Haneka" "Hanika" "Khanukkah"
```

Provide a regular expression which will capture all thirteen variants but will not capture the string “Christmas”.

**Solution:**

[CHK]h?ann?[aeiu]kk?ah?

```
str_detect(c(lights, "Christmas"), "[CHK]h?ann?[aeiu]kk?ah?")
```

```
[1]  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE  
[11]  TRUE  TRUE  TRUE FALSE
```