



Exercise



Vectorized operations

Previously we created this data frame:

```
temp <- c(35, 88, 42, 84, 81, 30)
city <- c("Beijing", "Lagos", "Paris", "Rio de Janeiro", "San Juan", "Toronto")
city_temps <- data.frame(name = city, temperature = temp)
```

Instructions

100 XP

We are interested in specifying Celsius instead of Fahrenheit. Remember that to convert from Fahrenheit to Celsius we use $C = 5/9 \times (F - 32)$.

- Use vector arithmetic to convert `temp` to Celsius
- Create a data frame called `city_temps` with the city names and temperatures in Celsius.

Take Hint (-30 XP)

script.R

Dark Mode

```
1 # Assign city names to `city`
2 city <- c("Beijing", "Lagos", "Paris", "Rio de Janeiro", "San Juan",
3 "Toronto")
4 # Store temperature values in `temp`
5 temp <- c(35, 88, 42, 84, 81, 30)
6
7 # Convert temperature into Celsius and overwrite the original values of
8 'temp' with these Celsius values
9 temp <- (temp-32)*(5/9)
9 # Create a data frame `city_temps`
10 city_temps<- data.frame(city=city, temp=temp)
```



Run Code

Submit Answer

R Console