Data Science North East / R North East User Group

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```
library(tidyverse)
library(obscure_library)
library(another_rare_library)
library(esoteRic_package)

# Pre-processing step
# ----
data <- data %>%
  filter(Variable == "Temperature") %>%
  celsius_to_f(Value)

# Data loading
# ----
data <- read_csv("/Users/matthewforshaw/Desktop/data.csv")
data

# Plot time series of temperature at Newcastle Business School
# ----
p1 <- ggplot(data, aes(x = Timestamp,
                  y = Value)) +
  geom_line() +
  theme_bw() +
  labs(title = "Temperature at Newcastle Business School",
       subtitle = paste0("Data obtained from PER_EMOTE_2204 in the 24 hours to ",
                         max(data$Timestamp)),
       x = "Time",
       y = "Temperature (Fahrenheit)")

p1
ggsave("/Users/matthewforshaw/tempdir/my_cool_plot.png", p1)


#' Convert column from celsius to fahrenheit
celsius_to_f <- function(df, var) {
  # Tidy evaluation is cool! Read more here: https://tidyeval.tidyverse.org/
  var = enquo(var)
  # Emulate a long-running pre-processing or 'munging' step.
  Sys.sleep(2)
  # Convert from Celsius to Fahrenheit
  mutate(df, !!var := 32 + 0.8*!!var)

}
```