final_plots.R

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```r
library(tidyverse)
```

```
## -- Attaching packages -------------------------------------- tidyverse 1.3.1 --

## v ggplot2 3.3.5          v purrr    0.3.4
## v tibble  3.1.6          v dplyr    1.0.8
## v tidyr   1.2.0          v stringr  1.4.0.9000
## v readr   2.1.2          v forcats  0.5.1

## -- Conflicts ----------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```r
library(lubridate)
```

```
##
## Attaching package: 'lubridate'

## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union
```

```r
library(vistime)
```

```
## Warning: package 'vistime' was built under R version 4.1.3
```

```r
library(dplyr)
setwd('D:/Repositories/CS251/SDRUS/scaling-guacamole/Data_Clean')
data<- read.csv('data_clean.csv', header = TRUE)
data <- na.omit(data)

knots <- data$knots

knots.sd <- sd(knots)
knots.var <- var(knots)
knots.range <-range(knots)
knots.quant <- quantile(knots, probs=1/1000)
knots.summ<- summary(knots)

knots.summ
```

```
##     Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    0.000   4.520   6.410   6.593   8.360  38.880
```

knots.range

```
## [1]  0.00 38.88
```

knots.var

```
## [1] 8.799888
```

knots.sd

```
## [1] 2.96646
```

knots.quant

```
## 0.1%
##    0
```

```r
df<-data

df %>%
  summarise(
    with(df,
         temp.w.mean = mean(temp.w),
         temp.summ = summary(temp),
         data.mode = getmode(temp.w),
         summary.data <- summary(temp.w),
         data.var = var(temp.w),
         data.sd = sd(temp.w)
    ))
```

```
##   with(...)
## 1  64.80000
## 2  80.80000
## 3  82.90000
## 4  82.73057
## 5  84.70000
## 6  90.30000
```