

# Preppin Data 2019 Week 2

David Jackson

10/28/2021

## Next Weeks Weather

So you survived week one (note: if you haven't completed week one - go back and give it a go as we will be layering the techniques over time)... well done and let's kick this up a notch.

This week's challenge uses a few of Jonathan's and my favourite Tableau Prep features. Prep has a load of great features built in to the menus so let's see which of them you can use to save you lots of fiddly calculations.

So what's the data? We need you decide where you are going to in the UK; London or Edinburgh, purely based on the weather (every Brit's favourite subject).

## Requirements for this week:

- \*\*Get rid of those nicely formatted titles - no-one is viewing this in Excel! (sorry Excel fans)
- \*\* Make sure you get all the data in the Excel sheet loaded in to Prep
- \*\* Clean up the City names to create two cities in one column (London and Edinburgh)
- Pivot the data to give a measure per column for the four metrics in the data set
- Output the data to csv

## Read Weather For London and Edinburgh

## Convert to Pivot Wider with metrics being Columns

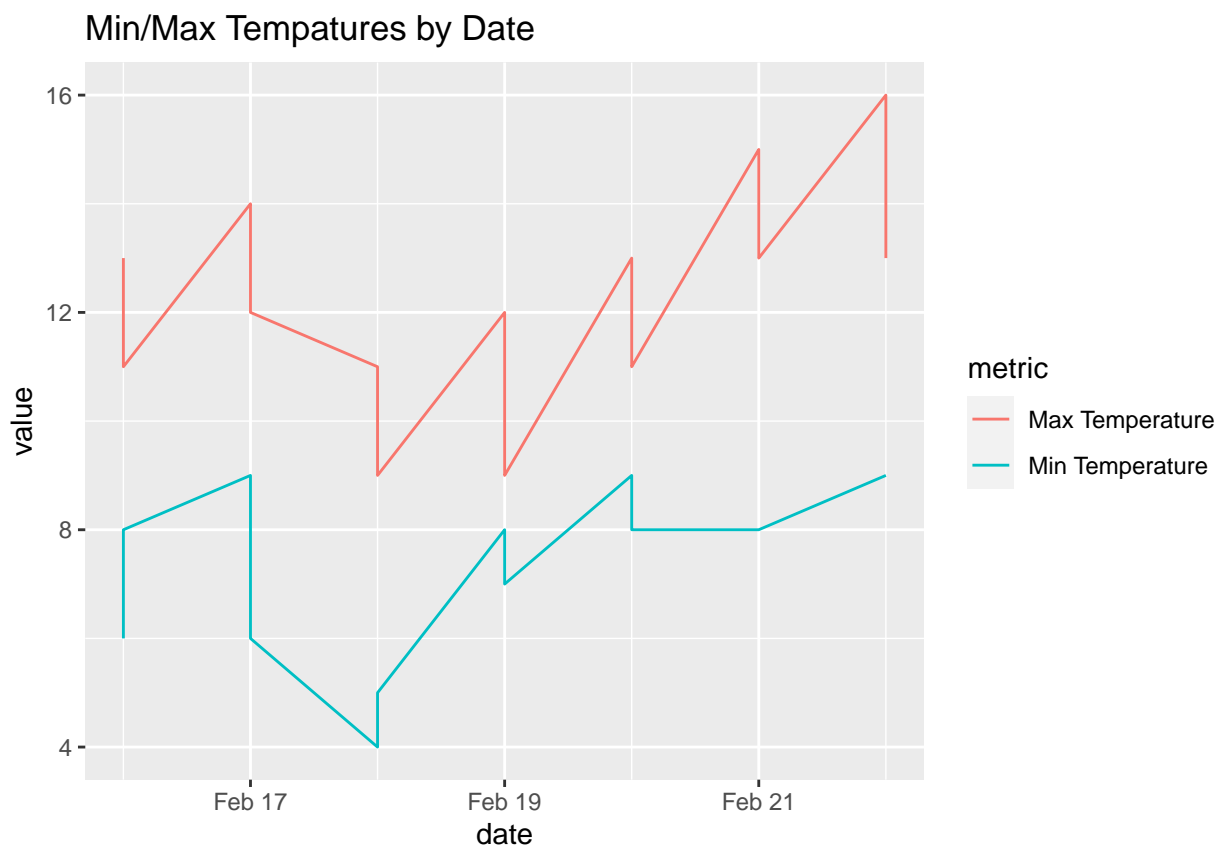
```
## # A tibble: 6 x 7
##   city   date                measure max_temperature min_temperature
##   <chr> <dtm>                <chr>          <dbl>          <dbl>
## 1 London 2019-02-16 00:00:00 Celsius          13             6
## 2 London 2019-02-16 00:00:00 mm              NA            NA
## 3 London 2019-02-16 00:00:00 mph              NA            NA
## 4 London 2019-02-17 00:00:00 Celsius          14             9
## 5 London 2019-02-17 00:00:00 mm              NA            NA
## 6 London 2019-02-17 00:00:00 mph              NA            NA
## # ... with 2 more variables: precipitation <dbl>, wind_speed <dbl>
```

## Descriptive Statistics

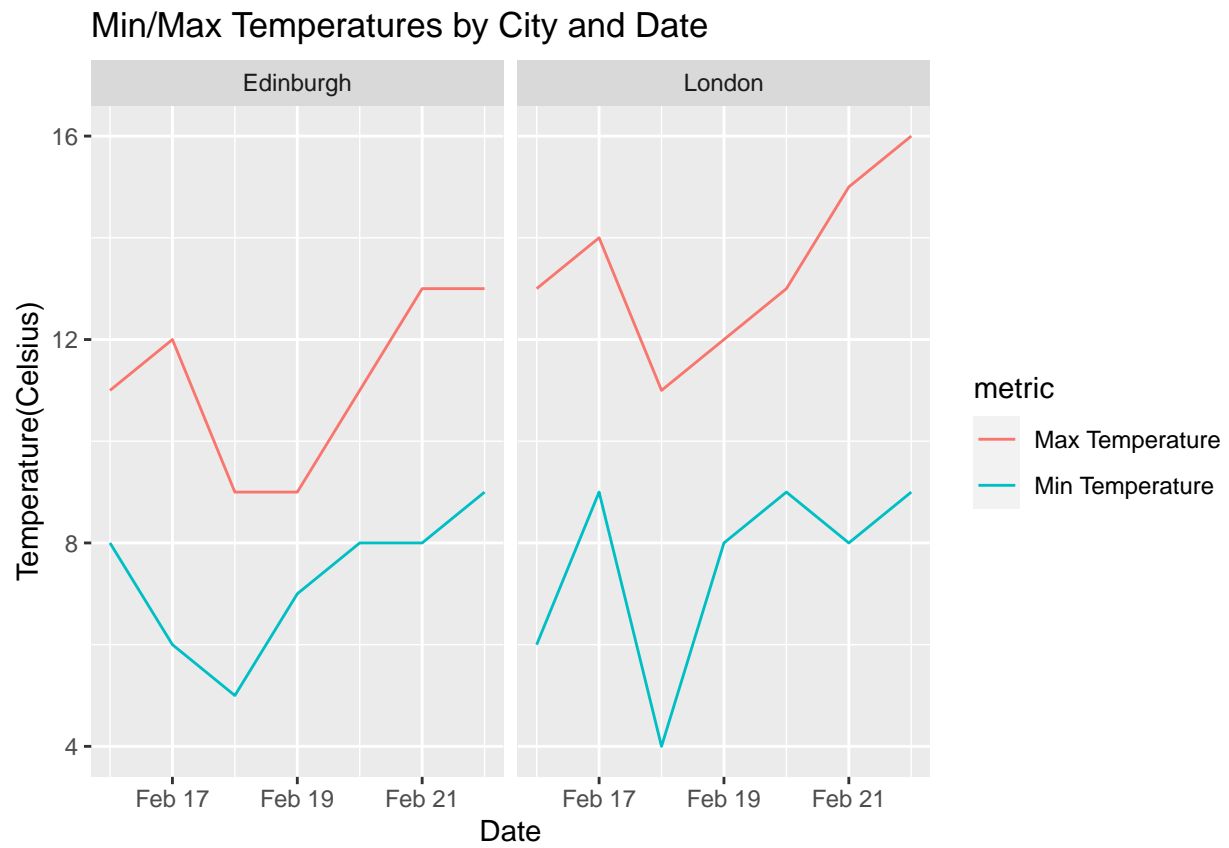
```
##           city           date           metric           measure
## Edinburgh:28   Min.       :2019-02-16   Max Temperature:14   Celsius:28
## London       :28   1st Qu.:2019-02-17   Min Temperature:14   mm       :14
```

```
##           Median :2019-02-19   Precipitation :14   mph   :14
##           Mean   :2019-02-19   Wind Speed    :14
##           3rd Qu.:2019-02-21
##           Max.    :2019-02-22
##           value
## Min.      : 0.000
## 1st Qu.   : 7.750
## Median    : 9.000
## Mean      : 9.589
## 3rd Qu.   :13.000
## Max.      :20.000
```

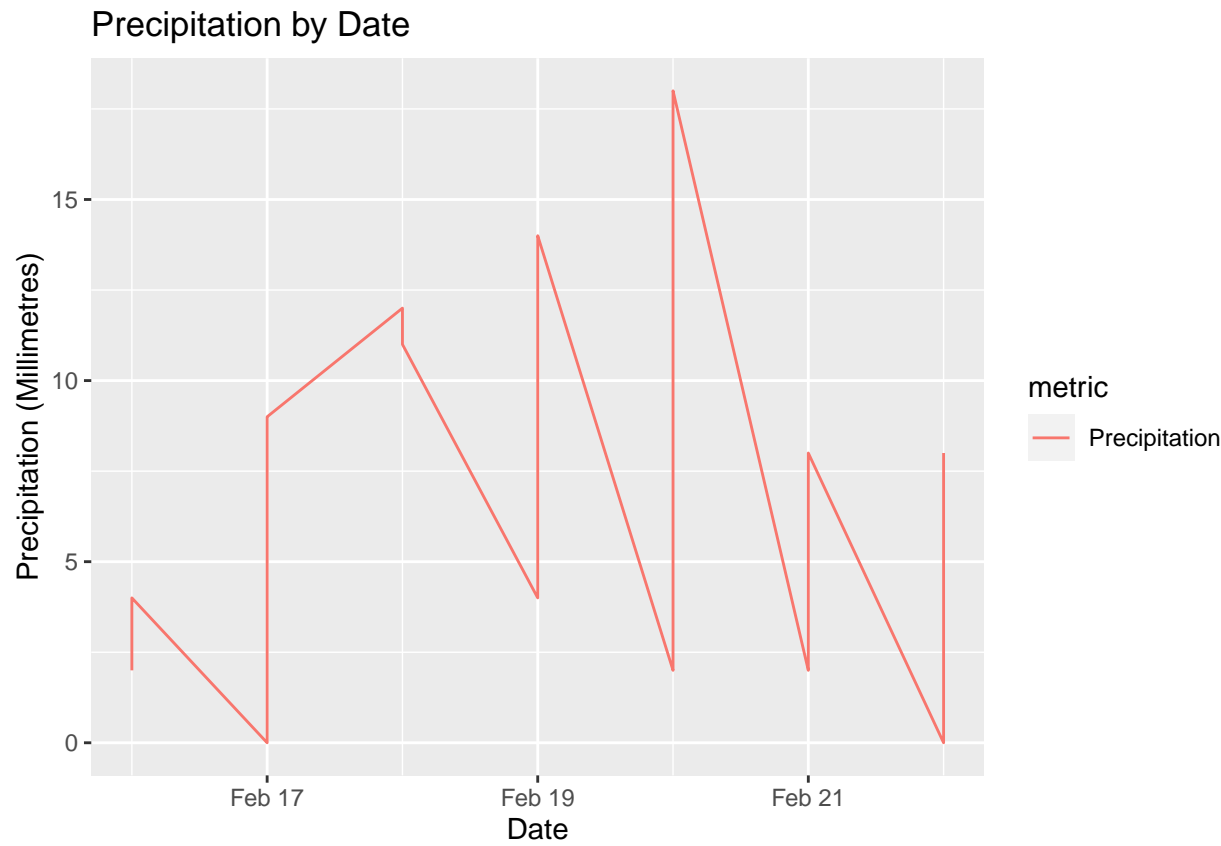
Plot of Daily Min/Max Temps by Date



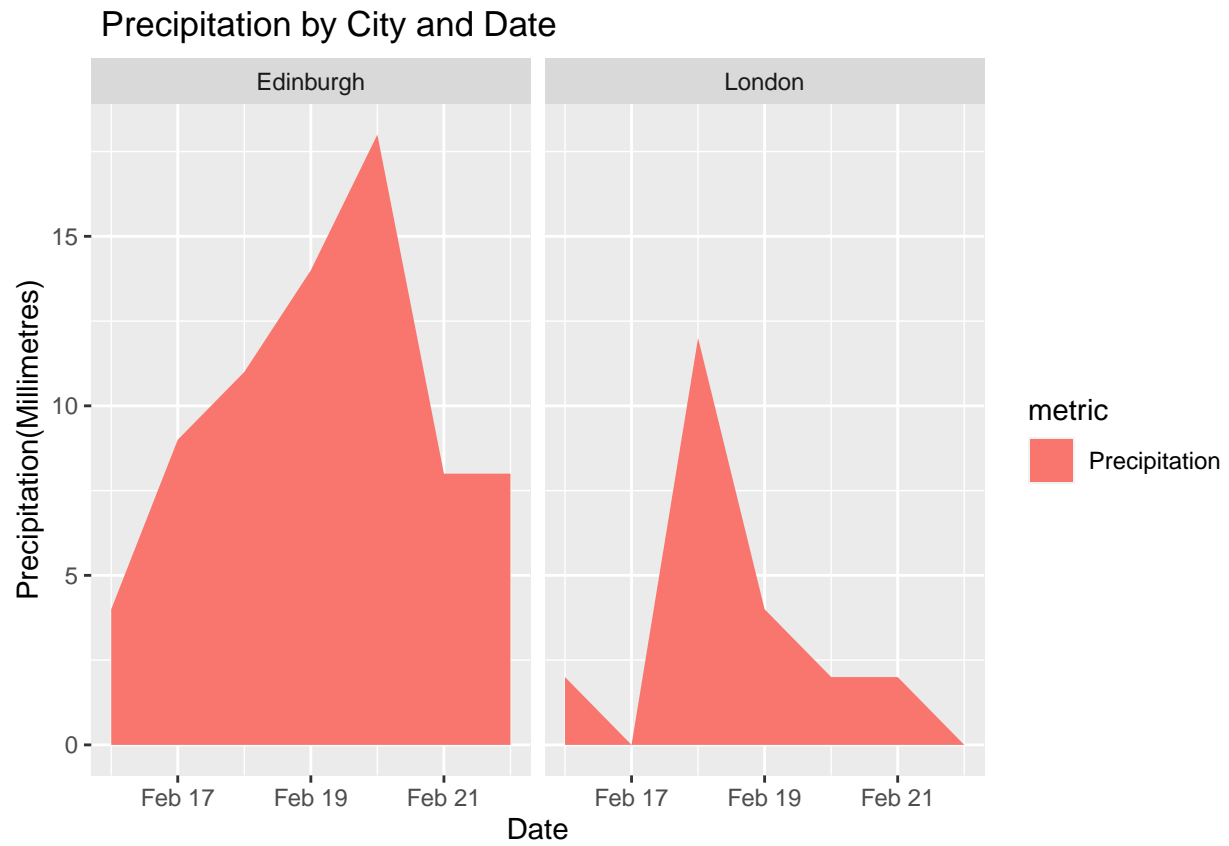
Plot of Daily Min/Max Temps by City and Dates



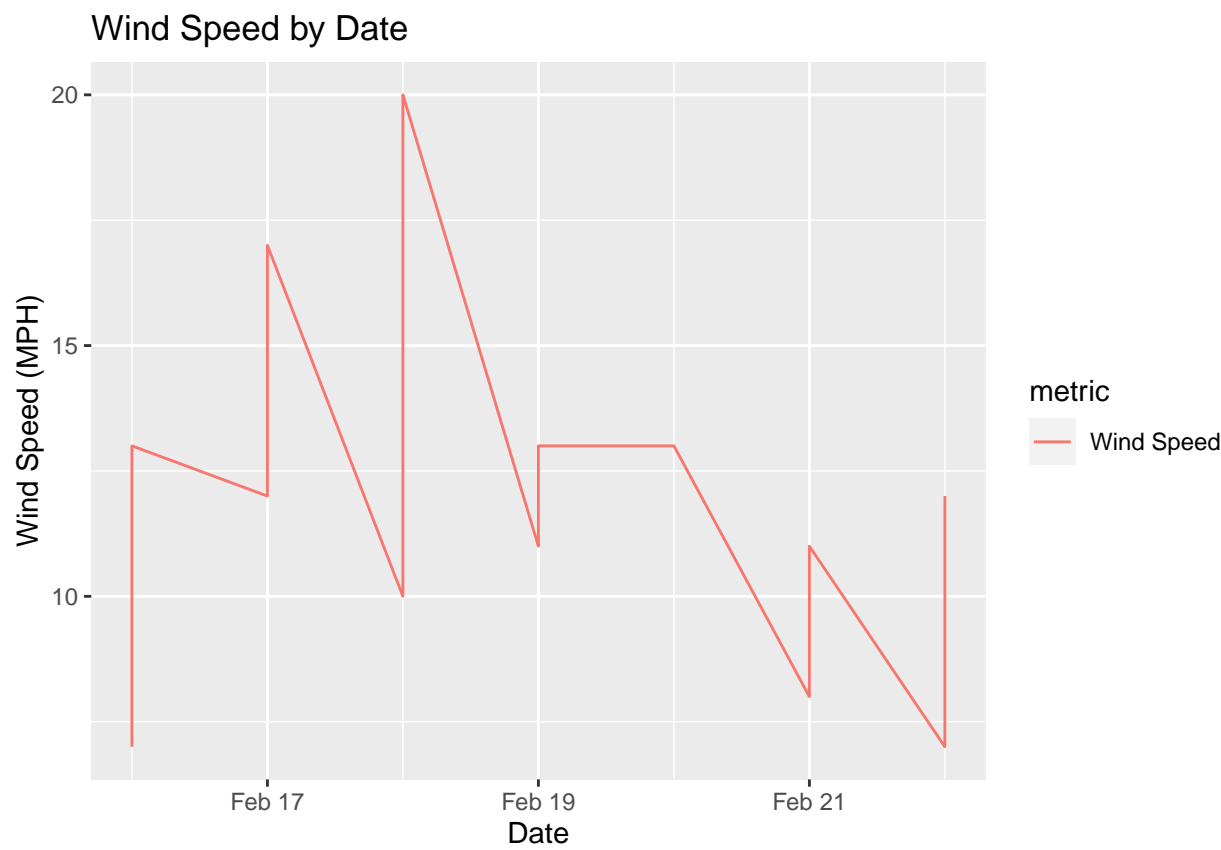
Plot of Daily Precipitation by Date



Plot of Precipitation City and Dates



Plot of Wind Speed by Date



Plot of Wind Speed by City and Dates

