

# Practice with warmXtrophic data and RMarkdown

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In this document I will be practicing using RMarkdown while attempting to make a simple graph from the warmXtrophic data

First, I will make sure that the packages I need are in my working environment

```
for (package in c('tidyverse', 'googledrive', 'googlesheets4', 'tinytex')) {  
  if (!require(package, character.only=T, quietly=T)) {  
    install.packages(package)  
    library(package, character.only=T)  
  }  
}
```

Next, I need to download the data file that I wish to work with in R - plant composition (percent cover) data from 2019 at UMBS

```
PlantComp <- read.csv("/Users/moriahyoung/Downloads/umbs_plantcomp_2019 - Sheet1.csv")
```

I want to look at the composition of spotted knapweed (Cest) in plot B2 at UMBS in 2019. To do this, I'll need to subset from the PlantComp dataframe I created above.

```
CestB2 <- subset(PlantComp, Species == "Cest" & Plot == "B2")
```

Now that I've subsetting my data, I'll plot the percent cover of Cest in B2 over the growing season in 2019

```
ggplot(data = CestB2, aes(x = Date, y = Cover)) +  
  geom_bar(stat = "identity", fill = "purple") +  
  labs(title = "Cest Composition in Plot B2 at UMBS",  
        subtitle = "2019",  
        x = "Date", y = "Percent Cover")
```

# Cest Composition in Plot B2 at UMBS 2019

