

I would like to share a visualization completed in R regarding CO2 uptake in different types of grass in different environments. The x axis of my chart will be the CO2 concentration and the y axis is the uptake of CO2. Whether or not the plants were in a chilled or unchilled environment is visualized by color. I added larger points on the chart and made them more opaque with the “alpha” command. I drew a smooth linear model correlating to the growth of the plots. I charted the linear method of the growth, adding “se = F” to eliminate the standard error. I separated the chart into two different species of grass by using the facet wrap command. I titled the visualization and cleaned up its appearance.

Here is the code I used to visualize the data. Please note that this data comes pre-loaded in RStudio’s Tidyverse package:

```
CO2 %>%  
  ggplot(aes(conc, uptake,  
             color = Treatment))+  
  geom_point(size = 3, alpha = 0.5)+  
  geom_smooth(method = lm, se = F)+  
  facet_wrap(~Type)+  
  labs(title = "Concentration of CO2")+  
  theme_bw()
```

Here is the visualization:

