Fun things

#library packages

library(ggpubr)

## Warning: package 'ggpubr' was built under R version 4.1.3

## Loading required package: ggplot2

library(rstatix)

## Warning: package 'rstatix' was built under R version 4.1.3

##   
## Attaching package: 'rstatix'

## The following object is masked from 'package:stats':  
##   
## filter

#1.view p values in your boxplot

Prac<-ToothGrowth  
  
#statistical test  
stat.test <- Prac %>%  
 t\_test(len ~ supp) %>%   
 #t.test(len ~ supp,data = Prac) ##Note the difference in (.,\_)   
add\_significance()  
stat.test

## # A tibble: 1 x 9  
## .y. group1 group2 n1 n2 statistic df p p.signif  
## \* <chr> <chr> <chr> <int> <int> <dbl> <dbl> <dbl> <chr>   
## 1 len OJ VC 30 30 1.92 55.3 0.0606 ns

stat\_test<-t.test(len ~ supp,data = Prac)  
  
  
# Box plots with p-values  
#Steps  
#1.Create a box plot ##bxp:)->.com  
bp<-ggplot(Prac,aes(supp,len),facet=dose)+geom\_boxplot()+theme\_test()  
  
bxp <- ggboxplot(Prac, x = "supp", y = "len", fill = "#00AFBB",  
 facet.by = "dose")  
stat.test <- stat.test %>% add\_xy\_position(x = "supp") ##add the xy\_position  
bxp +  
 stat\_pvalue\_manual(stat.test, label = "p")+ ##add the pvalue to your boxplot  
 scale\_y\_continuous(expand = expansion(mult = c(0, 0.5)))

