R Console Interaction

Identify the clinical and phenotypic variables in the dataframe either in the R
 Console or in RStudio

Use the R Console or the console in RStudio

Use the functions head() and/or View()

Mini Project Exercise

Use R plot functions to visualize the correlation between Hallmark Hypoxia and Hallmark Inflammatory Response

Is the correlation positive or negative?

Use the R plot functions to visualize the correlation between Hallmark Inflammatory Response and Up and Down-Regulated Hypoxia

Is the correlation positive or negative?

Mini Project Exercise

Use the function qplot() in R

The qplot() function is from the ggplot2 library

Try and see if you can qplot() without calling the ggplot2 library

Syntax of R commands

qplot() function:

```
qplot(HALLMARK_HYPOXIA, HIF1A,
    data = r2_gse62564_GSVA_Metadata,
    colour=quantile,
    ylab = "HIF1A",
    xlab = "Hallmark Hypoxia")
```

Link to reference

Syntax of R commands

boxplot() function:

```
boxplot(data=r2_gse62564_GSVA_Metadata,
r2_gse62564_GSVA_Metadata$mycn_status,
r2_gse62564_GSVA_Metadata$MYCN)
```

Link to reference