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Exer	cises

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## Part 1: Introduction to R and the R Synthax

Chapter 3: Data visualization

Load library ggplot2

library(ggplot2)

Load dataframe

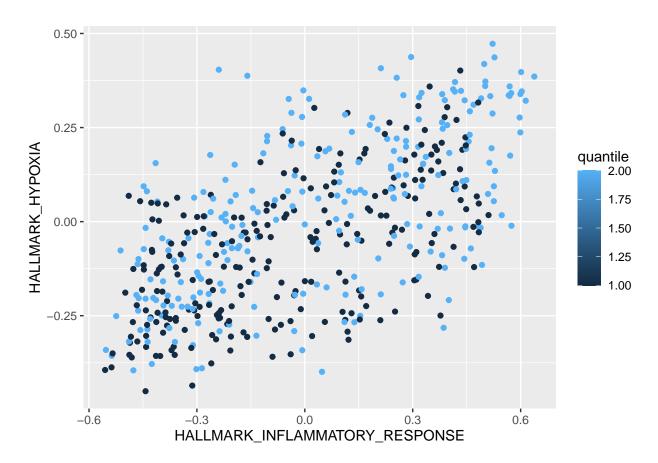
r2\_gse62564\_GSVA\_Metadata <- readRDS("~/Desktop/r2\_gse62564\_GSVA\_Metadata\_exercise.rds")

## Question 1

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

Solution: HALLMARK\_INFLAMMATORY\_RESPONSE vs. HALLMARK\_HYPOXIA

```
qplot(HALLMARK_INFLAMMATORY_RESPONSE, HALLMARK_HYPOXIA,
data = r2_gse62564_GSVA_Metadata,
colour=quantile,
ylab = "HALLMARK_HYPOXIA",
xlab = "HALLMARK_INFLAMMATORY_RESPONSE")
```

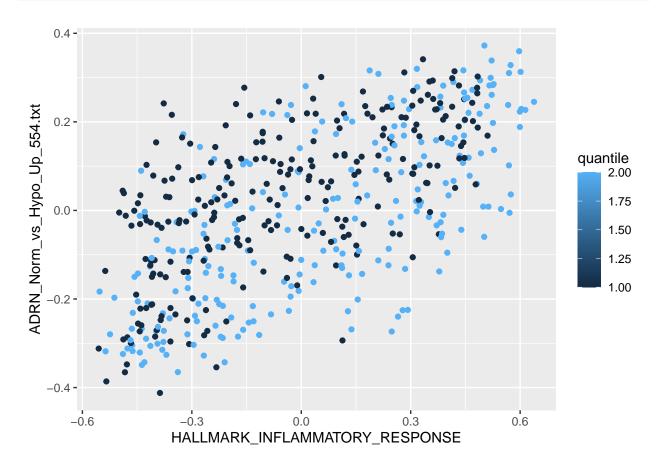


## Question 1

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

Solution: HALLMARK\_INFLAMMATORY\_RESPONSE vs. ADRN\_Norm\_vs\_Hypo\_Up\_554.txt

```
qplot(HALLMARK_INFLAMMATORY_RESPONSE, ADRN_Norm_vs_Hypo_Up_554.txt,
data = r2_gse62564_GSVA_Metadata,
colour=quantile,
xlab = "HALLMARK_INFLAMMATORY_RESPONSE",
ylab = "ADRN_Norm_vs_Hypo_Up_554.txt")
```



## Question 1

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

Solution: HALLMARK\_INFLAMMATORY\_RESPONSE vs. ADRN\_Norm\_vs\_Hypo\_Down\_635.txt

```
qplot(HALLMARK_INFLAMMATORY_RESPONSE, ADRN_Norm_vs_Hypo_Down_635.txt,
data = r2_gse62564_GSVA_Metadata,
colour=quantile,
ylab = "ADRN_Norm_vs_Hypo_Down_635.txt",
xlab = "HALLMARK_INFLAMMATORY_RESPONSE")
```

