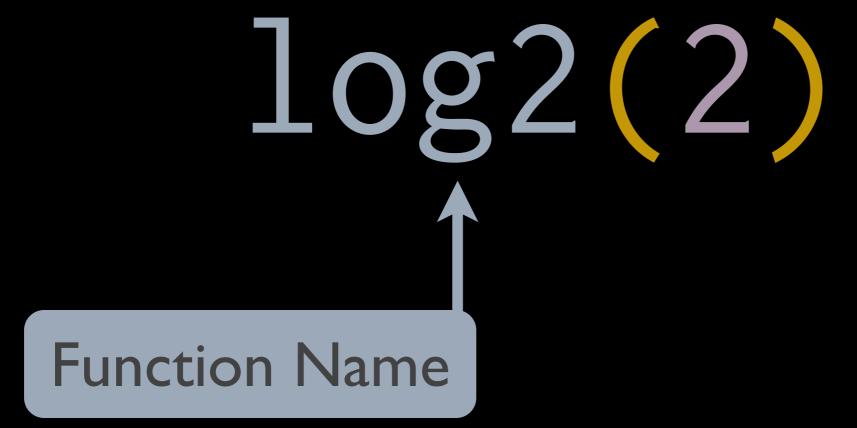
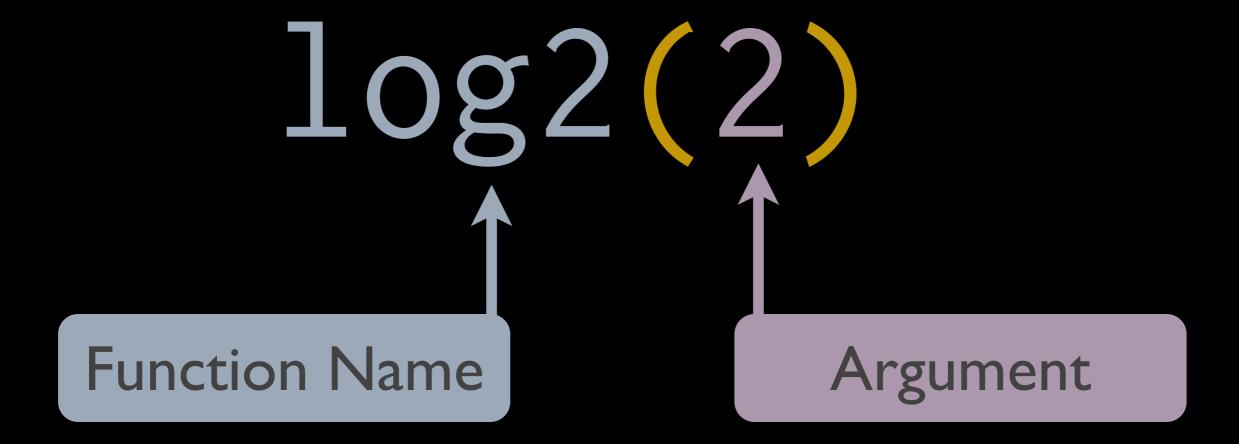
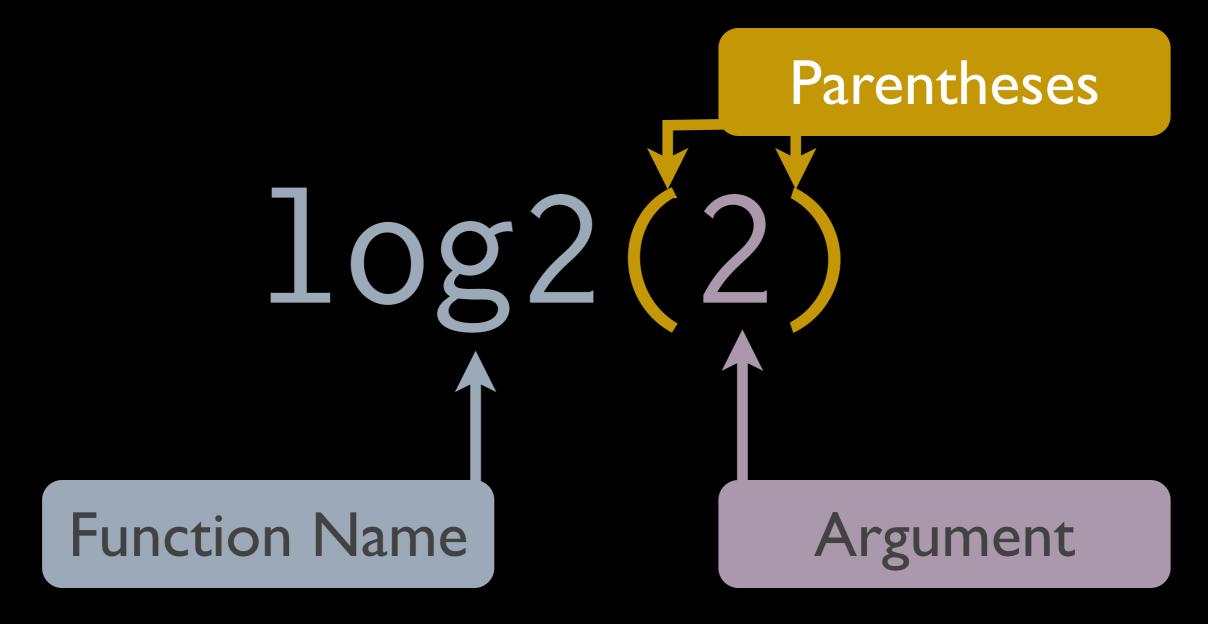
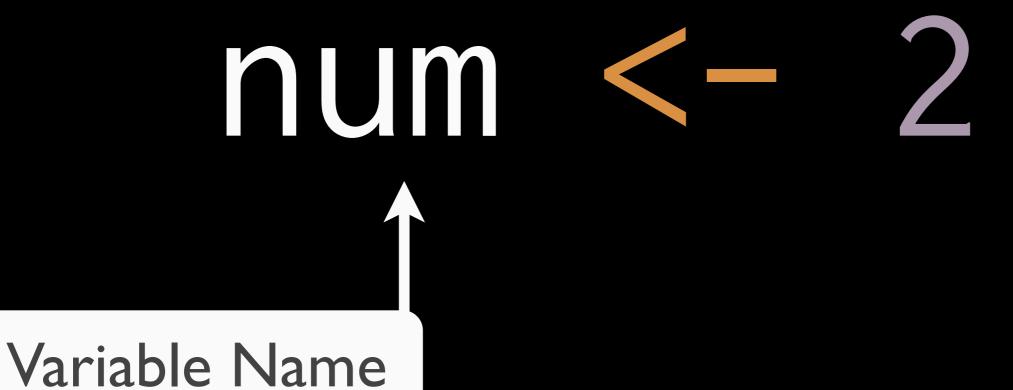
log2(2)

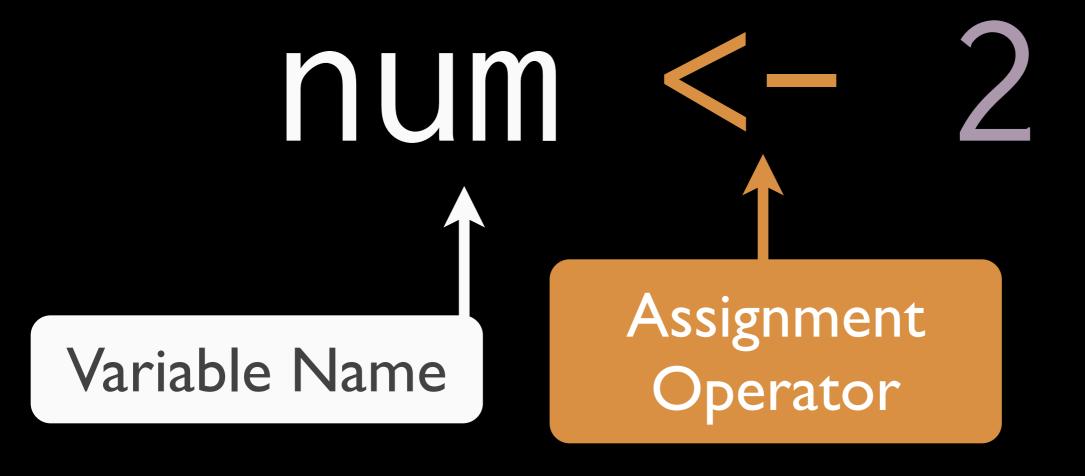


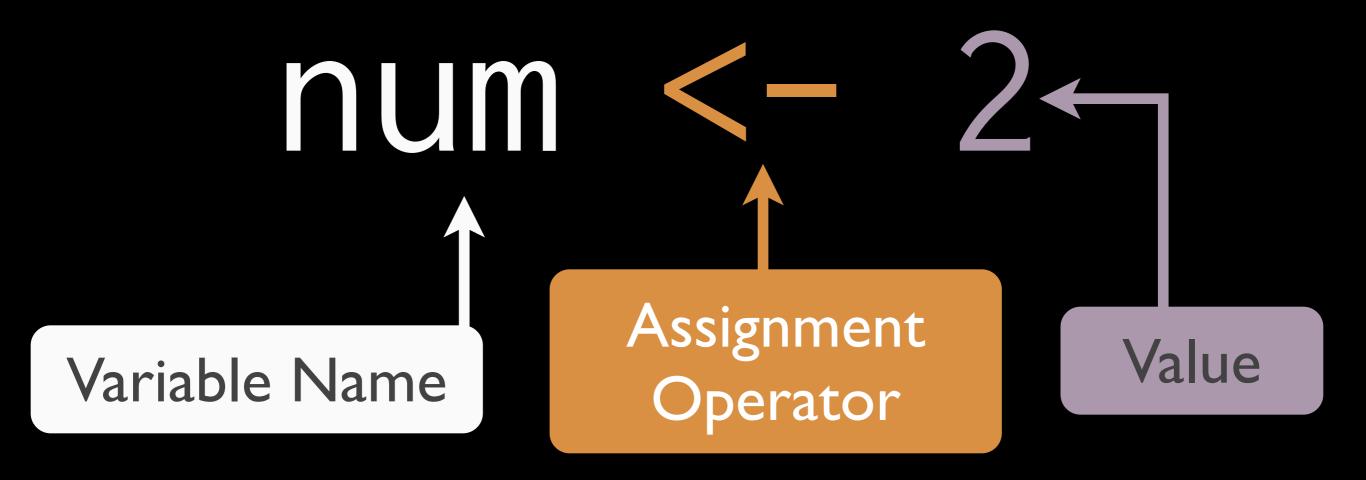




num <- 2







num <- 2

num <- 2
log2 (num)

 $\begin{array}{c} \text{Create} \\ \text{Variable} \end{array} \rightarrow \begin{array}{c} \text{Num} & <-2 \\ \text{log2 (num)} \end{array}$

Create +num <- 2 Variable log2 (num) Use As Argument

```
df <- read.table("H:/input.txt",header = T,sep = "\t")</pre>
```

```
df <- read.table("H:/input.txt", header = T, sep = "\t")
Variable Name</pre>
```

```
Assignment

df <- read.table("H:/input.txt",header = T,sep = "\t")

Variable Name</pre>
```

```
Assignment

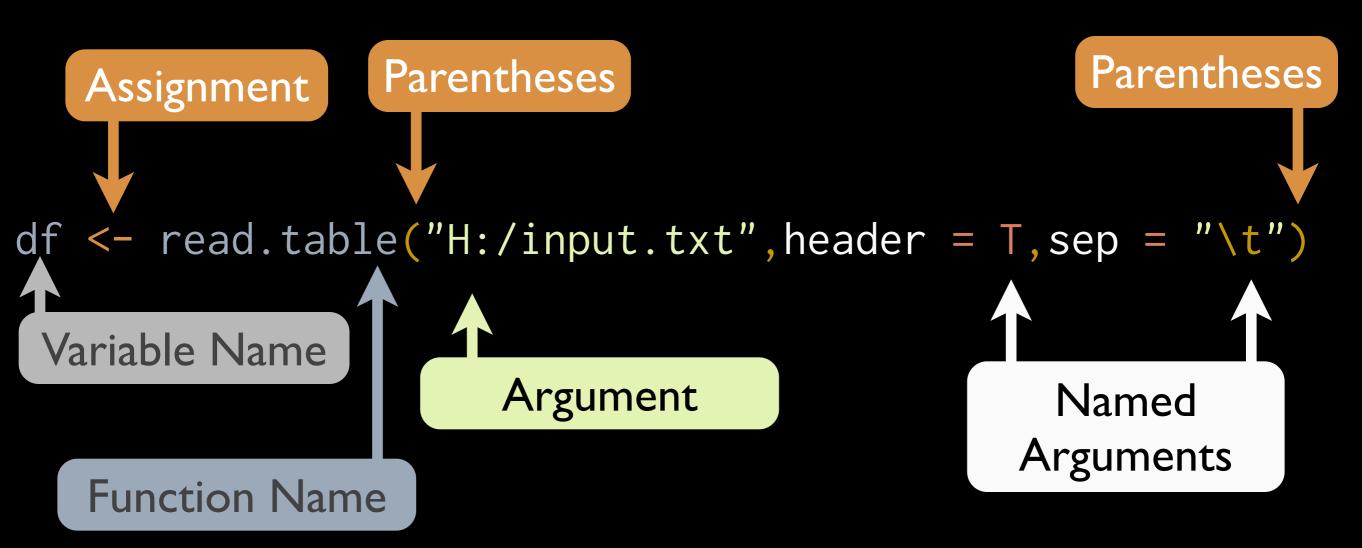
df <- read.table("H:/input.txt",header = T,sep = "\t")

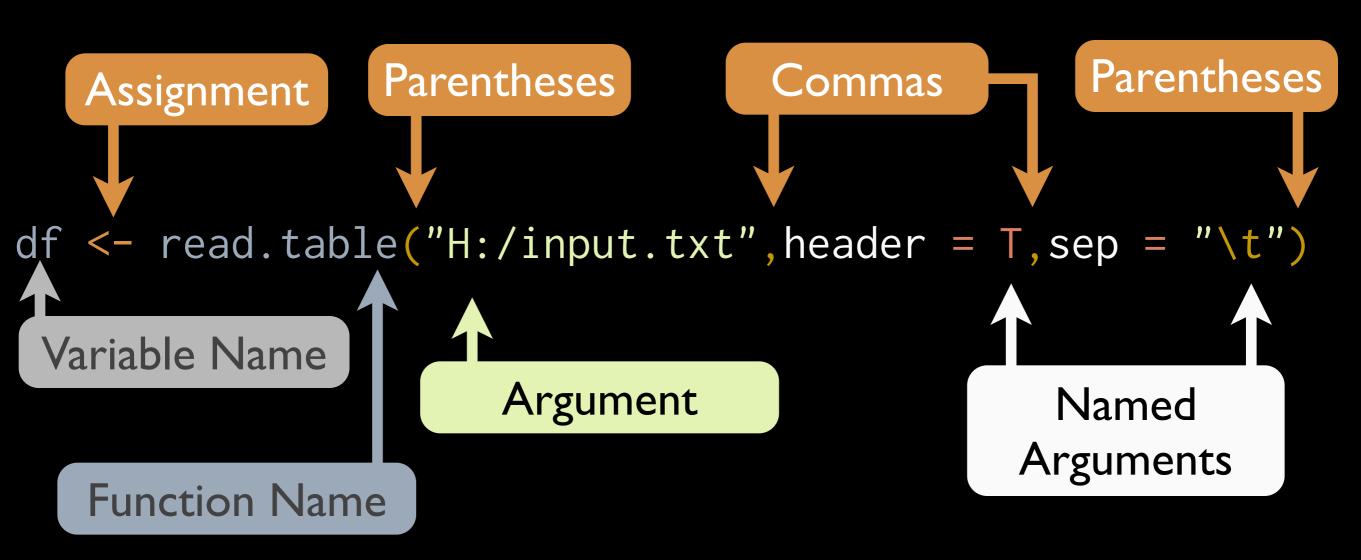
Variable Name

Function Name
```

```
Parentheses
                Parentheses
 Assignment
 <- read.table("H:/input.txt",header = T,sep = "\t")</pre>
Variable Name
  Function Name
```

```
Parentheses
                Parentheses
 Assignment
 <- read.table("H:/input.txt",header = T,sep = "\t")</pre>
Variable Name
                     Argument
  Function Name
```

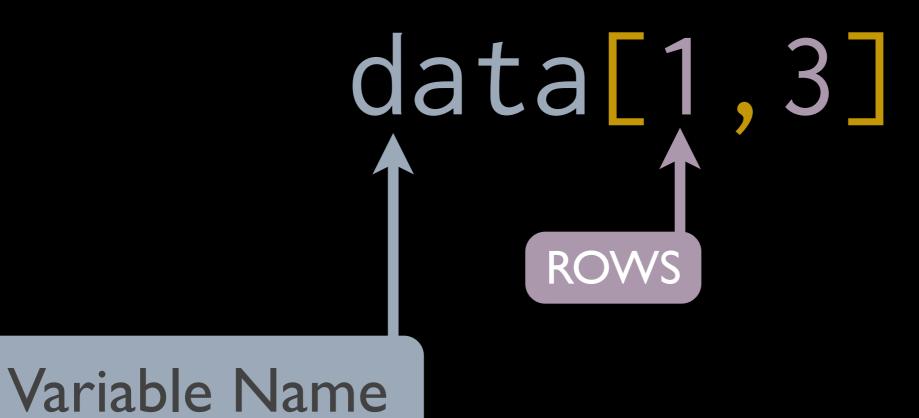


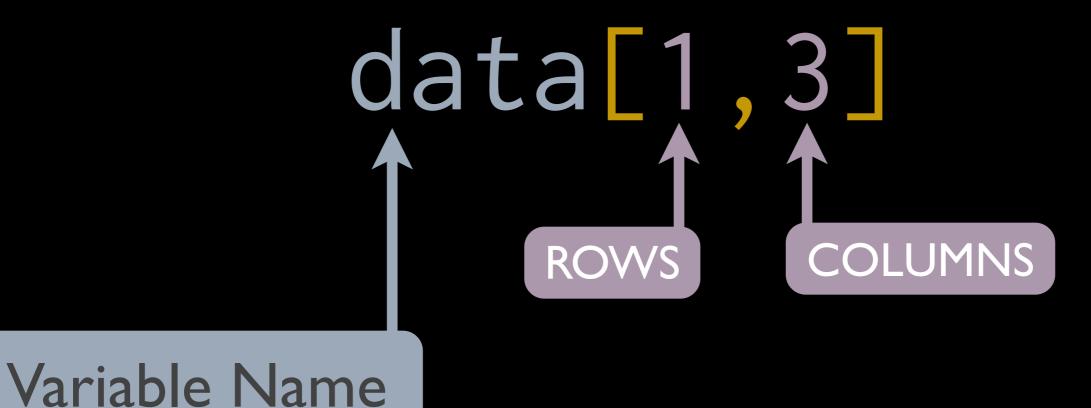


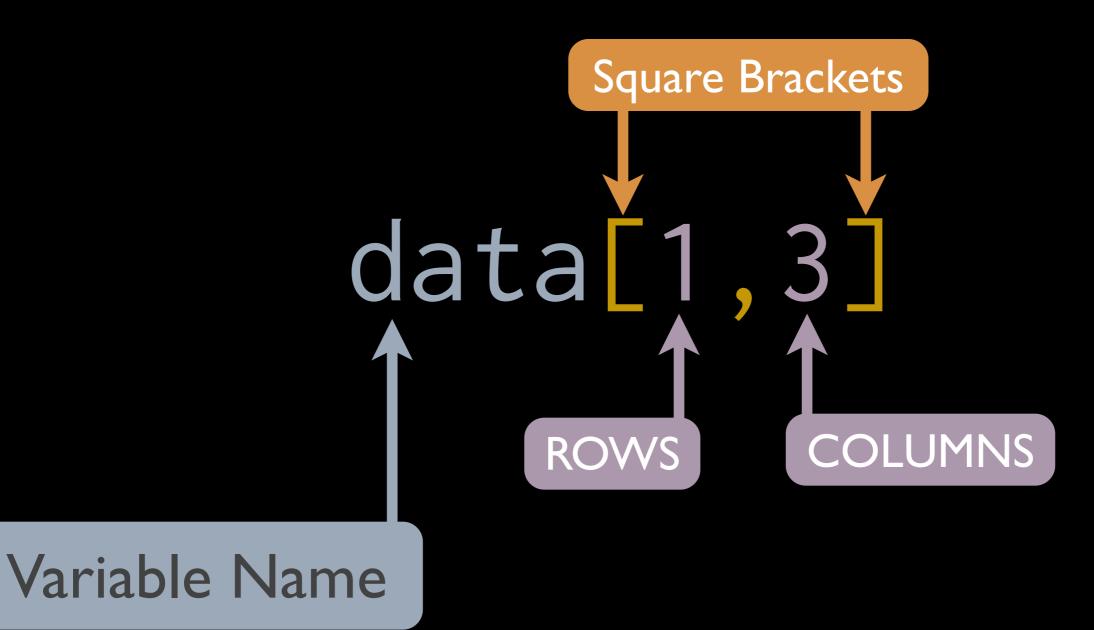
data[1,3]

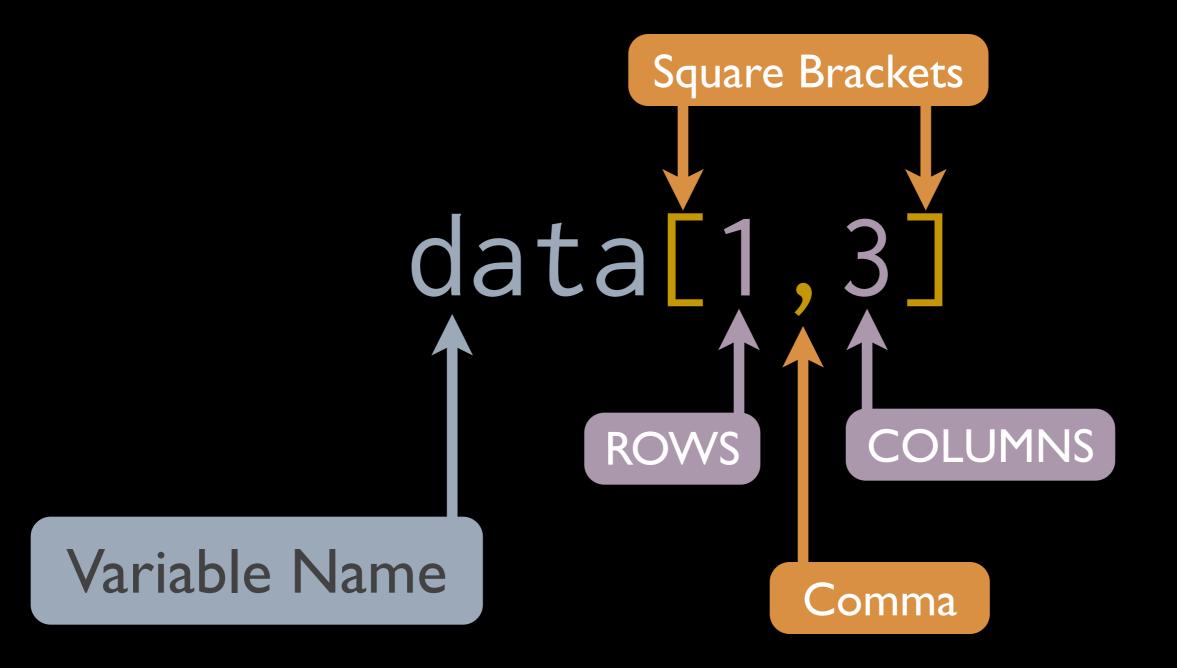
```
data[1,3]

Variable Name
```



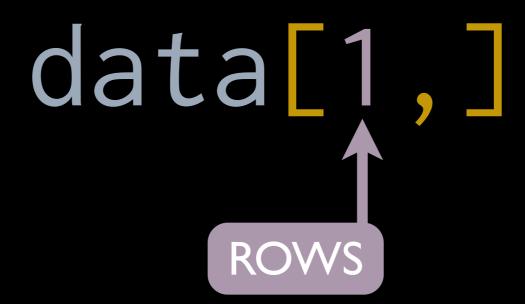


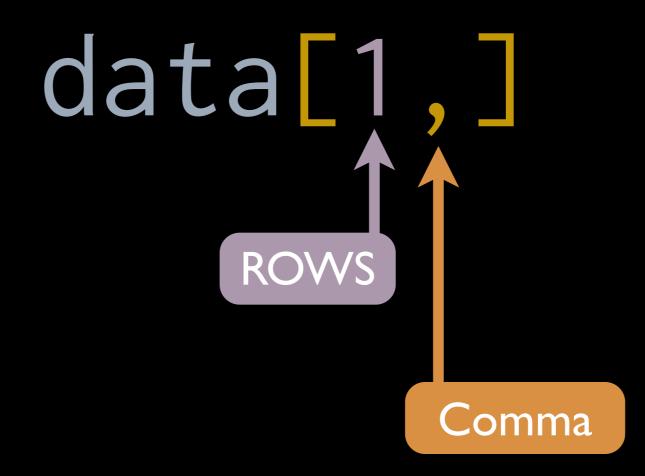




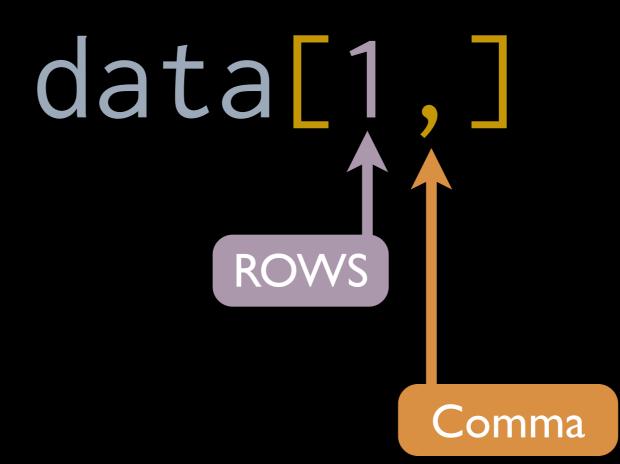
Give me the value stored in row 1, column 3 of 'data' Square Brackets data COLUMNS ROWS Variable Name Comma

```
data[1,]
```



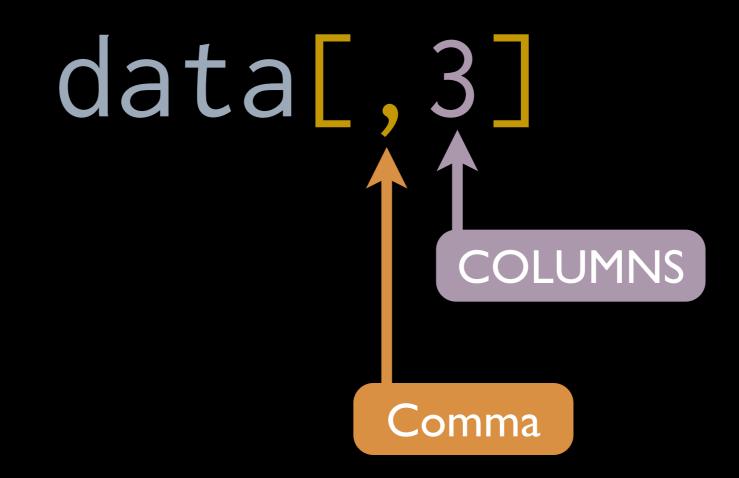


Give me the values stored in row 1 of 'data' (all columns)

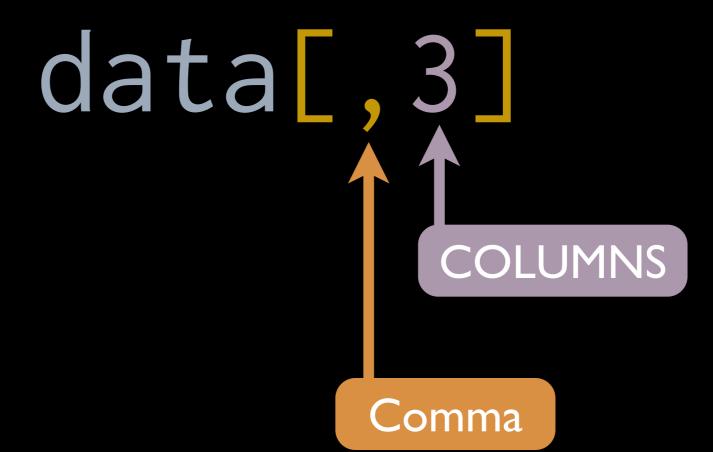


data[,3]

```
data[,3]
COLUMNS
```



Give me the values stored in column 3 of 'data' (all rows)



```
data[1:3,1:4]
```

Give me the values stored in rows 1 - 3, columns 1 - 4 of 'data'

```
data[, "gene"]
```

```
data[, "gene"]
```

ROWS

COLUMNS

Give me the values stored in the column named "gene" of 'data' (all rows)

data[, "gene"]

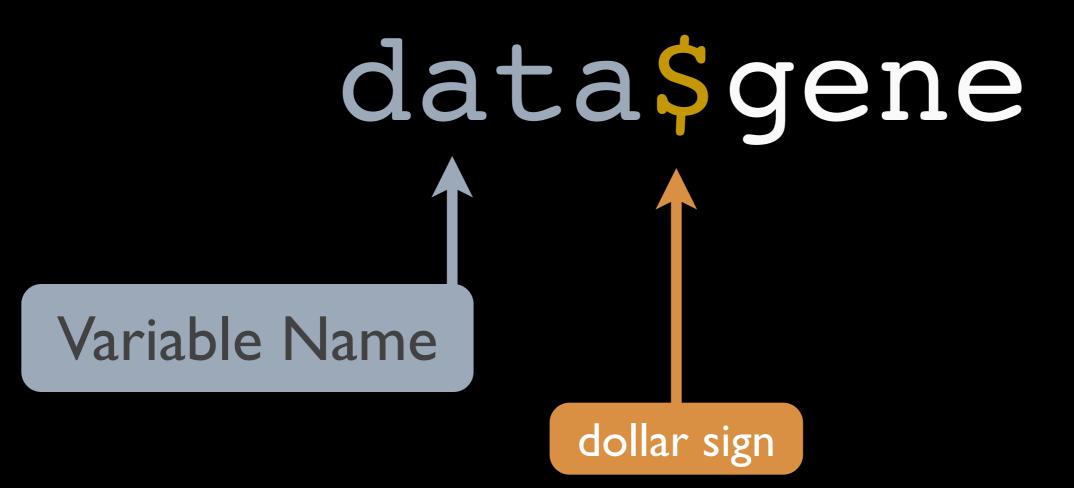
ROWS

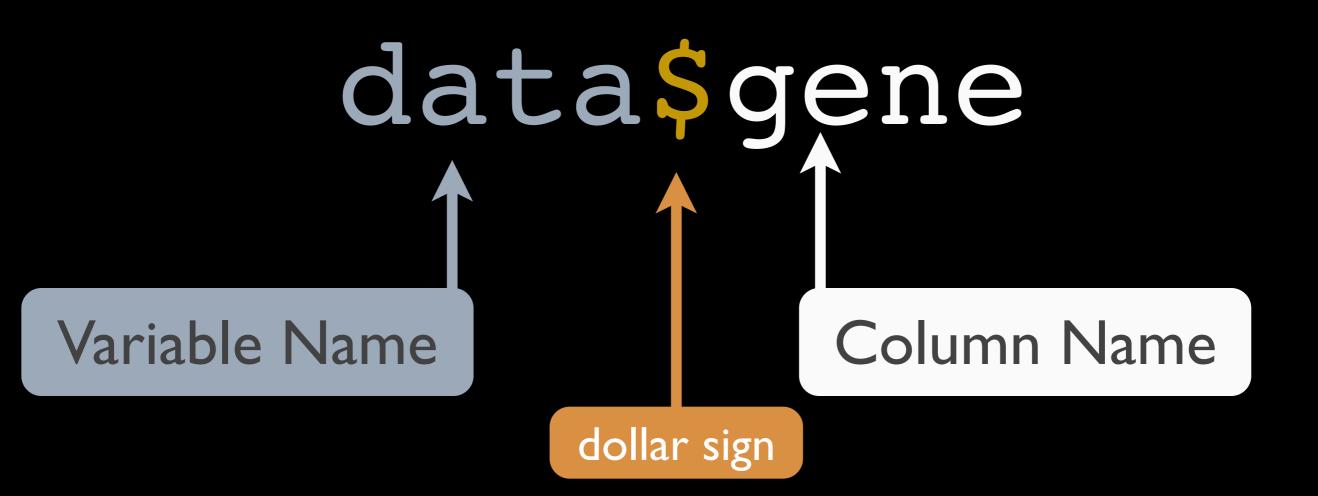
COLUMNS

data\$gene

data\$gene

Variable Name





Give me the values stored in the column named "gene" of 'data' (all rows)

data\$gene

Variable Name

Column Name

dollar sign

iv <- data\$relationship == "overlapping"</pre>

iv <- data\$relationship == "overlapping"</pre>

Which rows have their 'relationship' column equal to the string "overlapping"

```
iv <- data$relationship == "overlapping"</pre>
[FALSE,
                      Which rows have their 'relationship' column
 FALSE,
                           equal to the string "overlapping"
  TRUE,
 FALSE,
  TRUE,
```

iv <- data\$relationship == "overlapping"</pre>

iv <- data\$relationship == "overlapping"</pre>

```
sub <- data[iv,]
```

iv <- data\$relationship == "overlapping"

iv <- data\$relationship == "overlapping"</pre>

Give me the rows where the column 'relationship' is equal to the

string 'overlapping'

(all columns)

```
iv <- data$relationship == "overlapping"
sub <- data[iv,]</pre>
```

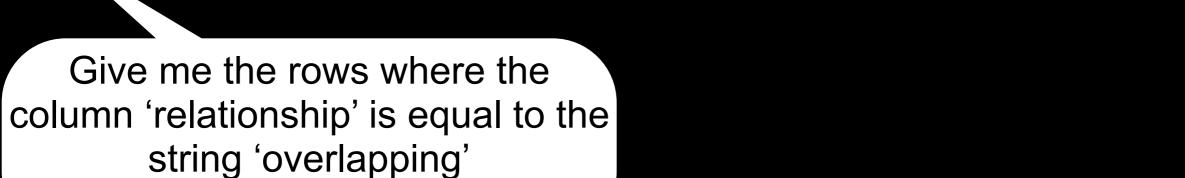
sub <- data[data\$relationship == "overlapping",]</pre>

sub <- data[data\$relationship == "overlapping",]</pre>

Give me the rows where the column 'relationship' is equal to the string 'overlapping'

(all columns)

sub <- data[data\$relationship == "overlapping",]</pre>



(all columns)