Reporte Analisis de Datos

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```
datos <- read_excel("lenguado2008.xlsx")
datos$Pez <- as.factor(datos$Pez)
datos$Año <- as.factor(datos$Año)
datos$Mes <- as.factor(datos$Mes)
summary(datos)
```

```
##       Pez          Fecha               Año       Mes         Talla
##  1      :  3   Min.   :2008-07-25   2008: 50   M14:50   Min.   : 9.40
##  2      :  3   1st Qu.:2008-07-25   2009:100   M21:50   1st Qu.:13.50
##  3      :  3   Median :2009-04-21              M7 :50   Median :22.20
##  4      :  3   Mean   :2009-04-03                       Mean   :19.61
##  5      :  3   3rd Qu.:2009-11-23                       3rd Qu.:24.00
##  6      :  3   Max.   :2009-11-23                       Max.   :28.20
##  (Other):132
##       Peso
##  Min.   :  9.90
##  1st Qu.: 29.23
##  Median :138.50
##  Mean   :119.34
##  3rd Qu.:182.50
##  Max.   :287.00
##
```

```
str(datos)
```

```
## tibble [150 x 6] (S3: tbl_df/tbl/data.frame)
##  $ Pez  : Factor w/ 50 levels "1","2","3","4",..: 1 2 3 4 5 6 7 8 9 10 ...
##  $ Fecha: POSIXct[1:150], format: "2008-07-25" "2008-07-25" ...
##  $ Año  : Factor w/ 2 levels "2008","2009": 1 1 1 1 1 1 1 1 1 1 ...
##  $ Mes  : Factor w/ 3 levels "M14","M21","M7": 3 3 3 3 3 3 3 3 3 3 ...
##  $ Talla: num [1:150] 16.5 13 13.5 12.8 12.5 13.5 12.8 13.7 13.1 11.9 ...
##  $ Peso : num [1:150] 57 27.6 29.2 24 23.8 30.8 25.5 31.5 27.5 19.6 ...
```

```
head(datos)
```

```
## # A tibble: 6 x 6
##   Pez   Fecha               Año   Mes   Talla  Peso
##   <fct> <dttm>              <fct> <fct> <dbl> <dbl>
## 1 1     2008-07-25 00:00:00 2008  M7     16.5  57
## 2 2     2008-07-25 00:00:00 2008  M7     13    27.6
## 3 3     2008-07-25 00:00:00 2008  M7     13.5  29.2
## 4 4     2008-07-25 00:00:00 2008  M7     12.8  24
## 5 5     2008-07-25 00:00:00 2008  M7     12.5  23.8
## 6 6     2008-07-25 00:00:00 2008  M7     13.5  30.8
```

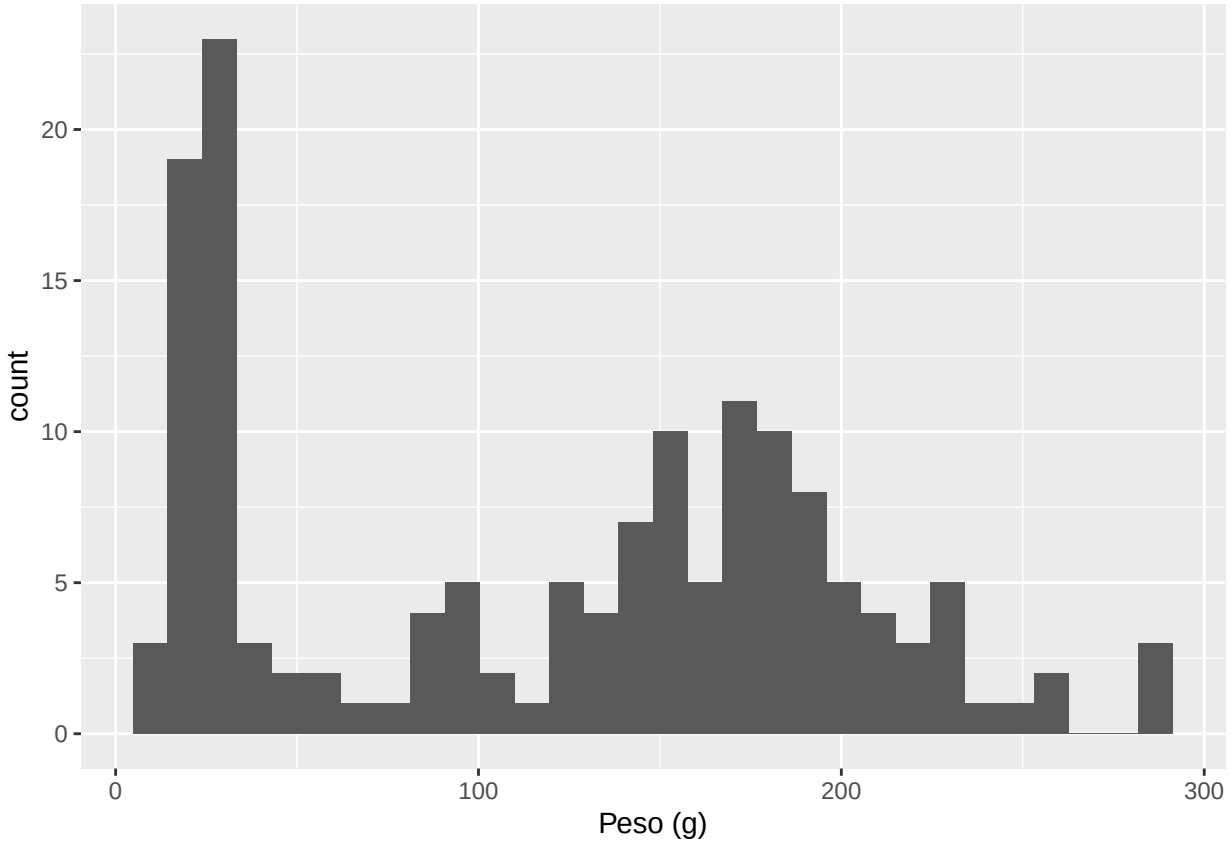
```r
# Tablas de frecuencia
table(datos$Año)
```

```
##
## 2008 2009
##   50  100
```

```r
table(datos$Mes)
```

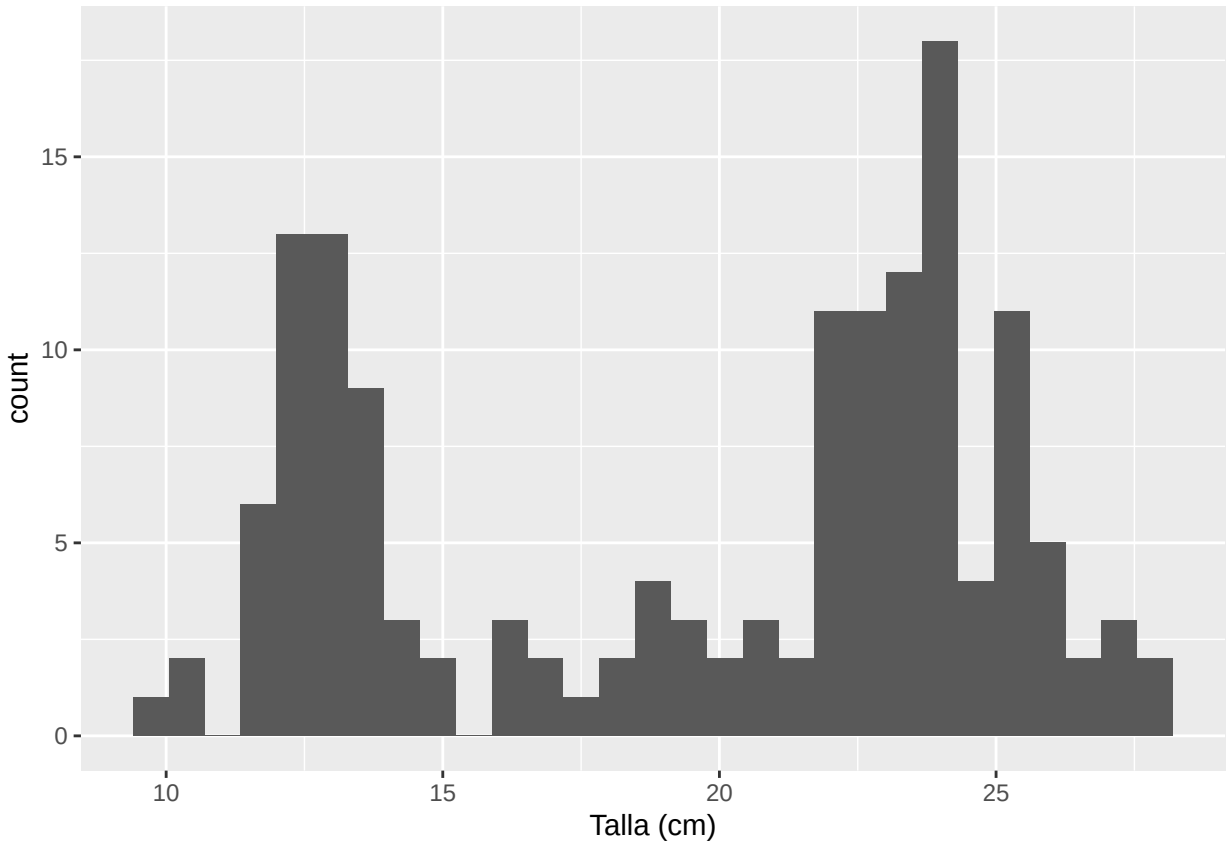
```
##
## M14 M21  M7
##  50  50  50
```

```r
ggplot(datos, aes(x = Peso)) +
  geom_histogram(bins = 30)+
  labs(x="Peso (g)")
```



Histograma de Talla

```r
ggplot(datos, aes(x = Talla)) +
  geom_histogram(bins = 30)+
  labs(x="Talla (cm)")
```


15
10
5
0
count
10
15
20
25
Talla (cm)