

# GGplot2

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# Objetivos

- XXXX
- XXXX
- XXXX

# GGPLOT2

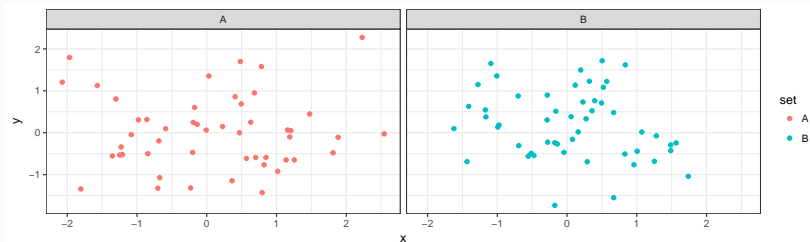
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## Carregando pacote...

```
> ## Para instalar o pacote:  
> ## install.packages('ggplot2')  
> library(ggplot2)
```

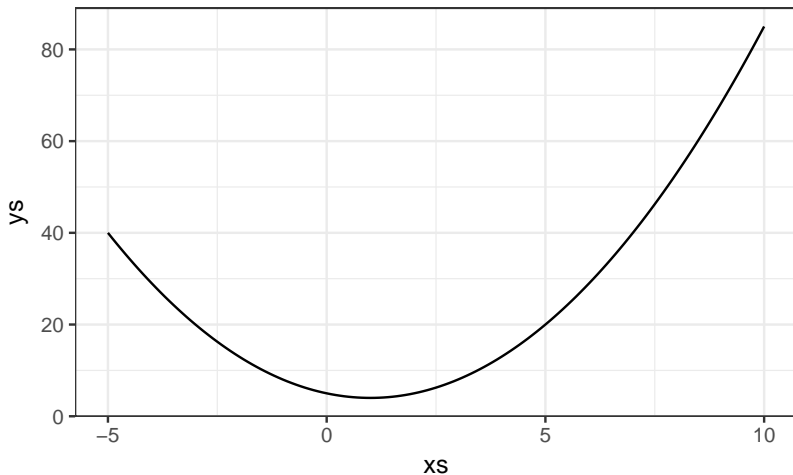
# Scatter

```
> data <- data.frame(x = rnorm(100), y = rnorm(100),  
+                   set = sample(c("A", "B"), 100, replace = T))  
> ggplot(data, aes(x, y, color=set)) +  
+   geom_point() +  
+   facet_grid(~set) +  
+   theme_bw()
```



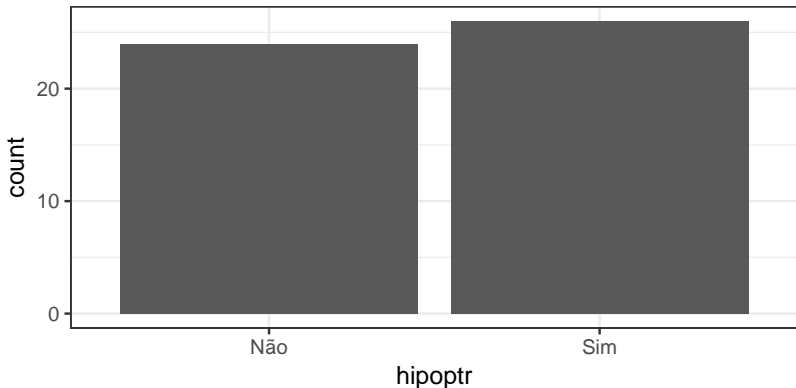
# Line

```
> xs <- seq(-5, 10, 0.1)
> ys <- xs^2 - 2 * xs + 5
> qplot(xs, ys, geom='line') + theme_bw()
```

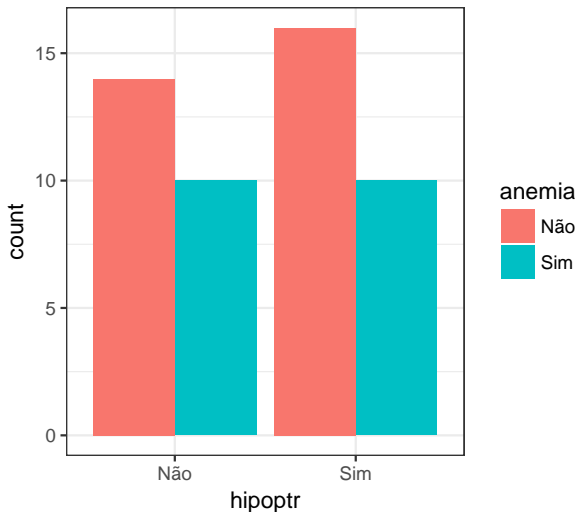


# Barplot

```
> data <- data.frame(  
+   hipoptr = sample(c("Sim", "Não"), 50, replace=T),  
+   anemia  = sample(c("Sim", "Não"), 50, replace=T))  
> ggplot(data, aes(hipoptr)) + geom_bar() + theme_bw()
```



```
> ggplot(data, aes(hipoptr, fill=anemia)) +  
+   geom_bar(position = "dodge") +  
+   theme_bw()
```

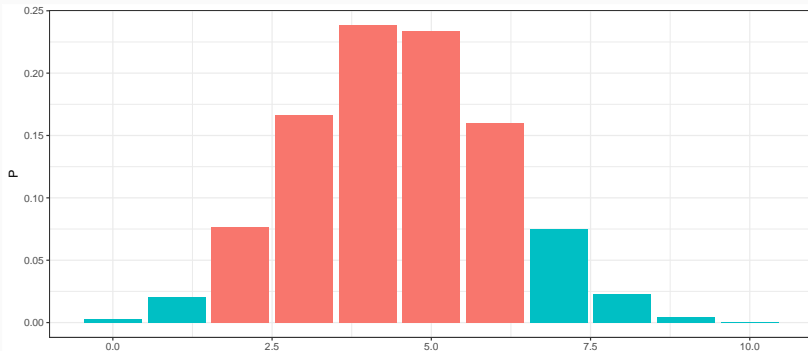




```

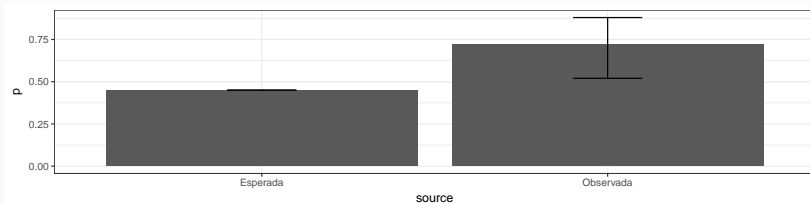
> qplot(x = 0:10, y = dbinom(0:10, size=10, p=0.45),
+       fill = (0:10 < floor(7 - 4.5)) | (0:10 >= 7),
+       geom='col') +
+   labs(x = "", y = "p") +
+   guides(fill=FALSE) +
+   theme_bw()

```



# ErrorBar

```
> cnfint <- qbinom(c(0.025, 0.975), 25, 0.72) / 25
> data <- data.frame(source = c("Esperada", "Observada"),
+                       p = c(0.45, 0.72),
+                       lower = c(0.45, cnfint[1]),
+                       upper = c(0.45, cnfint[2]))
> ggplot(data, aes(source, p, ymin=lower, ymax=upper)) +
+   geom_col() + geom_errorbar(width=.2) +
+   theme_bw()
```



# PointRange

```
> ggplot(data, aes(source, p, ymin=lower, ymax=upper)) +  
+   geom_pointrange() +  
+   theme_bw()
```

