## Add Reference Lines to a Plot

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In this article, we will see how to add reference lines to a plot, either horizonal, vertical, or diagonal (specified by slope and intercept) using ggplot2 in R Programming Language.

library(ggplot2)
summary(iris)

```
# Prepare data and create dotplots
p <- ggplot(iris, aes(Sepal.Length, Sepal.Width)) +
geom_point(colour = "orange") +
theme_classic()
p
# Add vertical lines
p +
geom_vline(xintercept = mean(iris$Sepal.Length)) +
geom_vline(xintercept = 7,
size=1.5,
linetype = "dashed",
alpha = 0.5)
# Add horizontal lines
p +
geom_hline(yintercept = 3,
linetype = 3,
size = 1)
# Add diagonal lines
p +
geom_abline(intercept = 3.5,
slope = -0.2,
colour = "skyblue",
size = 2) +
scale_x_continuous(expand = c(0,0), limits = c(0,9))
```





