

R-PHP Enciety: Membuat Dokumen Sederhana

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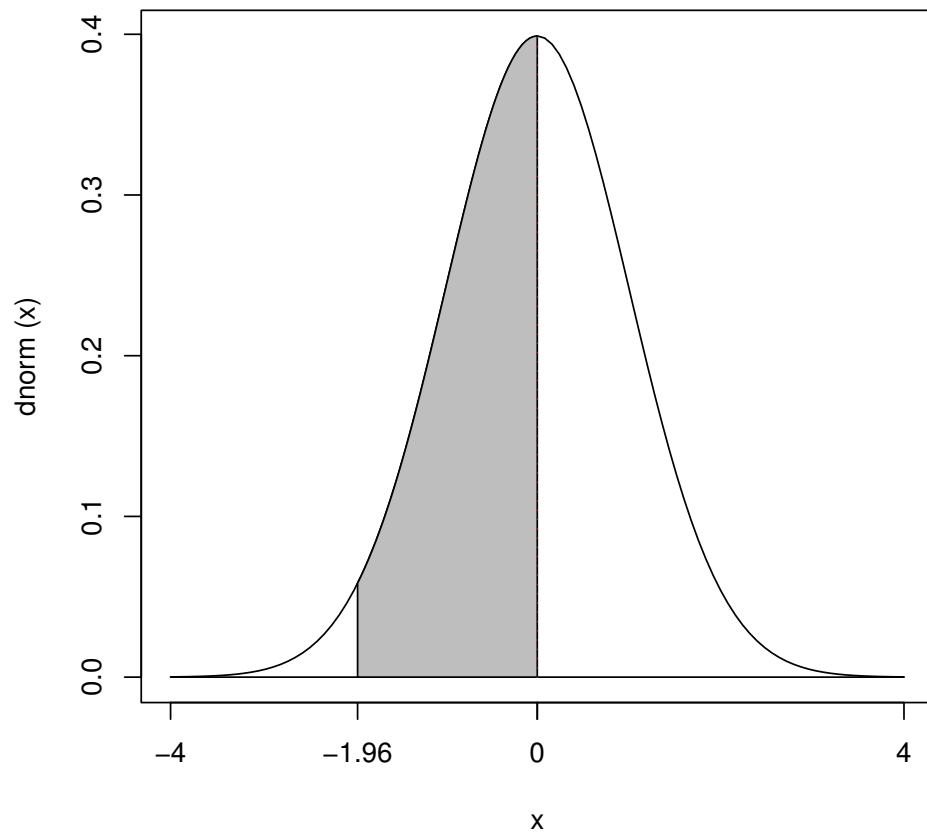
10 Mei 2005

1 Membuat Plot Under Curve Satu Sisi

Hasil Grafik untuk membuat plot satu sisi ada di Gambar 1.

```
> oneseide <- function(x1, x2, color = "gray") {
+   if (x1 < -4 || x1 > 4)
+     stop("nilai x1 harus lebih dari -4 atau kurang dari 4")
+   if (x2 < -4 || x2 > 4)
+     stop("nilai x2 harus lebih dari -4 atau kurang dari 4")
+   plot(dnorm, -4, 4, axes = F)
+   segments(-4, 0, 4, 0)
+   xvals <- seq(x1, x2, length = 50)
+   dvals <- dnorm(xvals)
+   polygon(c(xvals, rev(xvals)), c(rep(0, 50), rev(dvals)),
+     col = color)
+   segments(0, 0, 0, 0.4, col = "red", lty = 3)
+   axis(1, at = c(x1, x2, -4, 4, 0), labels = c(x1, x2, -4,
+     4, 0))
+   axis(2)
+   box()
+ }
```

Gambar 1: Daerah Penolakan Satu Sisi

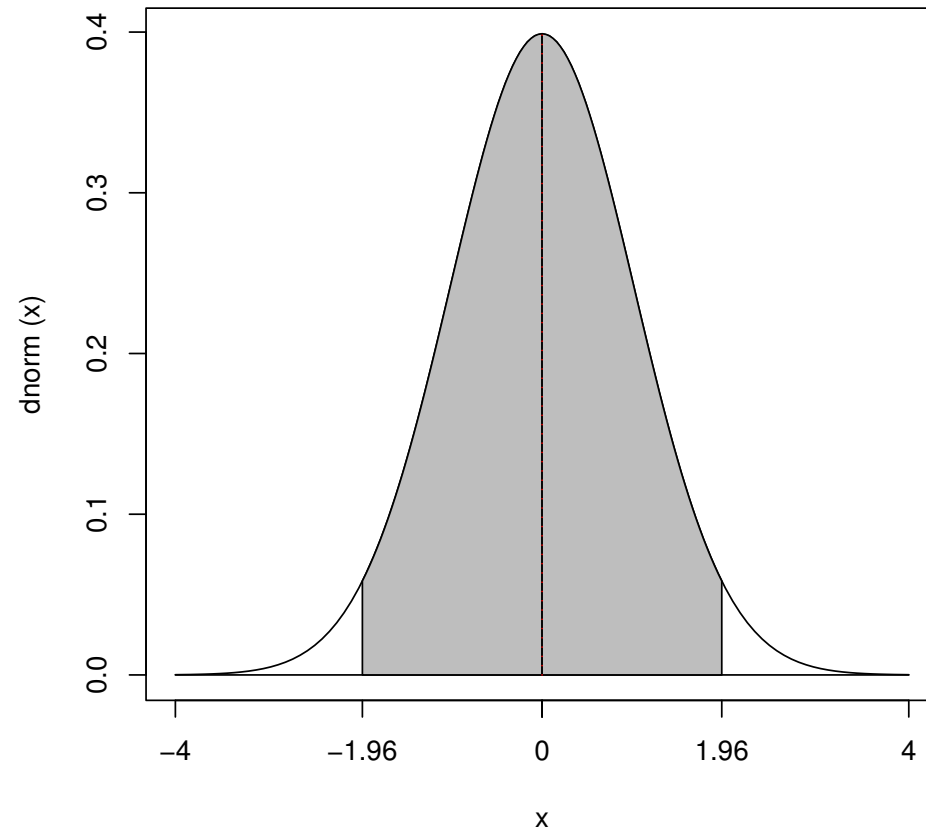


2 Membuat Plot Under Curve Dua Sisi

Hasil Grafik untuk membuat plot dua sisi ada di Gambar 2.

```
> twoside <- function(x1, x2, color = "gray") {  
+   if (x1 < -4 || x1 > 4)  
+     stop("nilai x1 harus lebih dari -4 atau kurang dari 4")  
+   if (x2 < -4 || x2 > 4)  
+     stop("nilai x2 harus lebih dari -4 atau kurang dari 4")  
+   plot(dnorm, -4, 4, axes = F)  
+   segments(-4, 0, 4, 0)  
+   xvals <- seq(x1, x2, length = 50)  
+   dvals <- dnorm(xvals)  
+   polygon(c(xvals, rev(xvals)), c(rep(0, 50), rev(dvals)),  
+     col = color)  
+   xvals <- seq(-x2, -x1, length = 50)  
+   dvals <- dnorm(xvals)  
+   polygon(c(xvals, rev(xvals)), c(rep(0, 50), rev(dvals)),  
+     col = color)  
+   segments(0, 0, 0, 0.4, col = "red", lty = 3)  
+   axis(1, at = c(x1, x2, -x2, -x1, -4, 4, 0), labels = c(x1,  
+     x2, -x2, -x1, -4, 4, 0))  
+   axis(2)  
+   box()  
+ }
```

Gambar 2: Daerah Penolakan Dua Sisi



3 barplot with Gap Value

```
> data <- c(50, 70, 20, 40, 65, 96, 59.5, 78.3)
> barplot.gapvalue <- function(data, label = c(""), title = "") {
+   data.bp <- barplot(data, col = c("darkorange", "grey45"),
+     border = "white", axes = F, ylim = c(0, 100), xlab = " ",
+     cex.axis = 2, main = title)
+   axis(2, col = "orange", cex = 2)
+   axis(1, at = c(data.bp[1] + 0.6, data.bp[3] + 0.6, data.bp[5] +
+     0.6, data.bp[7] + 0.6), labels = label, col = "white")
+   for (i in c(1, 3, 5, 7)) {
+     segments(data.bp[i] - 0.5, data[i], data.bp[i + 1] +
+       0.5, data[i], lwd = 3)
+     segments(data.bp[i] - 0.5, data[i + 1], data.bp[i + 1] +
+       0.5, data[i + 1], lwd = 3)
+     arrows(data.bp[i] + 0.5, data[i], data.bp[i] + 0.5, data[i +
+       1], code = 3, lwd = 2)
+     text(data.bp[i], data[i] + ((data[i + 1] - data[i])/2),
+       data[i + 1] - data[i], cex = 1)
+   }
+ }
```

Gambar 3: Barplot with Gap Value

