

# Variabel & Vector

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## Resume belajar R - Variabel dan Vektor

Berikut dibawah source code yang telah kita praktekkan hari ini. Semoga bermanfaat.

```
> "Hello world"    # Hello World di R
[1] "Hello world"
> nama <- "Sahibul"
> nama
[1] "Sahibul"
> ayama            # memanggil nama variabel yang belum di inisiasi
Error: object 'ayama' not found
> mode(nama)       # method "mode()" untuk cek tipe data variabel
[1] "character"
> usia <- 21
> mode(usia)
[1] "numeric"
> nama = ""
> nama
[1] ""
> nama = ''
> c(1,5,10,3)      # method "c()" untuk membuat vektor dengan beberapa data
[1] 1 5 10 3
> data1 <- c(1,5,10,3) # menyimpan data pada vektor ke dalam variabel "data1"
> data2 <- c(2,3,4,2)
> data1 + data2      # contoh aritmatika penjumlahan antara dua variabel yang menyimpan nilai vect
[1] 3 8 14 5
> data3 <- c(A,b)
Error: object 'A' not found
> data3 <- c("A", "B", "C")
> data3
[1] "A" "B" "C"
> data3[1]          # akses data tertentu pada vektor
[1] "A"
> data3[2]
[1] "B"
> c(1,4,5,6,7,8,8,6,5,5,5,5,4,4,3,3,3,4,45,5,5,7,8,8,6,5,4,3,6,7,8,9,5,4,3,3,2,5,4,4,4,4,4)
[1] 1 4 5 6 7 8 8 6 5 5 5 5 4 4 3 3 3 4 45 5 5 7 8 8 6 5 4 3 6 7 8 9 5 4 3 3 2 5 4 4 4 4 4
[26] 5 4 3 6 7 8 9 5 4 3 3 2 5 4 4 4 4 4 4
> c(1,4,5,6,7,8,8,6,5,5,5,5,4,4,3,3,3,4,45,5,5,7,8,8,6,5,4,3,6,7,8,9,5,4,3,3,2,5,4,4,4,4,4,1,4,5,6,7,8,9)
[1] 1 4 5 6 7 8 8 6 5 5 5 5 4 4 3 3 3 4 45 5 5 7 8 8 6 5 4 3 6 7 8 9 5 4 3 3 2 5 4 4 4 4 4 1 4 5 6 7 8 9
[26] 5 4 3 6 7 8 9 5 4 3 3 2 5 4 4 4 4 4 4 1 4 5 6 7 8 8
[51] 6 5 5 5 5 4 4 3 3 3 4 45 5 5 7 8 8 6 5 4 3 6 7 8 9
```

```

[76] 5 4 3 3 2 5 4 4 4 4 4
> data3[2] <- "Z"
> data3[2] <- 4
> data3 <- 2
> data3 <- c("A", "B", "C")
> data3[4]
[1] NA
> data3[4] <- Z
Error: object 'Z' not found
> data3[4] <- "Z"
> data3[6] <- "X"
> data1 -> data2
> data1[c(2,3)]
[1] 5 10
> data1[-2]
[1] 1 10 3
> #aha      # komentar dengan tanda "#" di R
> data1[-2]  #a
[1] 1 10 3
>
>
> length(data1)      # fungsi untuk cek size suatu variabel
[1] 4
>
> X <- vector(length = 5)
> X <- vector(mode = "numeric", length = 3)
>
> data1 <- data1[-3]
> data1 <- data1[c(1,2,3)]
> data1 <- data1[]
> data1 <- data1[-c(1,2,3)]

> rm(list = ls())      # hapus semua object di environment

```