

RStudio

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10:28 (Top Level) R Script

```
1 # Given data
2 data <- c(200,300,400,600,1000)
3 # Min-max normalization with min = 0 and max = 1
4 min_max_normalized_a <- (data - min(data)) / (max(data) - min(data))
5 # Z-score normalization
6 mean_data <- mean(data)
7 std_dev_data <- sd(data)
8 z_score_normalized_b <- (data - mean_data) / std_dev_data
9 print(min_max_normalized_a)
10 print(z_score_normalized_b)
```

Console

```
R 4.3.1 ~\f
> # Given data
> data <- c(200,300,400,600,1000)
> # Min-max normalization with min = 0 and max = 1
> min_max_normalized_a <- (data - min(data)) / (max(data) - min(data))
> # Z-score normalization
> mean_data <- mean(data)
> std_dev_data <- sd(data)
> z_score_normalized_b <- (data - mean_data) / std_dev_data
> print(min_max_normalized_a)
[1] 0.000 0.125 0.250 0.500 1.000
> print(z_score_normalized_b)
[1] -0.9486833 -0.6324555 -0.3162278 0.3162278 1.5811388
>
```

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Global Environment

Values

data	num [1:5] 200 300 400 600 1000
mean_data	500
min_max_normalized_a	num [1:5] 0 0.125 0.25 0.5 1
std_dev_data	316.227766016838
z_score_normalized_b	num [1:5] -0.949 -0.632 -0.316 0.316 1.581

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