

if else

```
if (condition) {
    ## do something
} else {
    ## do something
}

else
{
}

if (x > 3) {
    y <- 10
} else {
    y <- 0
}
```

for loop

```
for (i in 1:10) {
    print(i)
}

## The following loops have the
same behavior
x <- c("a ", "b", " c", "d ")
for (i in 1:4) {
    print(
x[i])
}
for (i in seq_along(x)) {
    print(
x[i])
}
for (letter in x) {
    print(
letter)
}

## If a for loop has a single
expression
for (i in 1:4) print( x[i])
```

while loop

```
count <- 0
while (count < 10){
    print(
count)
    count <-
count + 1
}
```

repeat, next, break

```
x0 <- 1
tol <- 1e-8
repeat {
    x1 <-
somefunction()
    if (condi -
tion) {
        break
    } else {
        (an other
condition)
    }
}

for (i in 1:100) {
    if (i <= 20)
    {
        # Skip the first 20
iterations
        next
    }
    ## Do
something here
}
```

function

```
add2 <- function(x + y) {
    x + y
}

## A function always returns the
last expression
above <- function(x, n) {
    use
    <- x > n
    -
x[use]
}
```



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 Page 1 of 1.

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