

repeat Loops

We will be learning all about the repeat statement in this lesson.

We'll cover the following ^

- Syntax of a repeat loop

Syntax of a **repeat** loop

The syntax for **repeat** loop in R language:

```
repeat
{
  statement
}
```

In the statement block, we must use the **break** statement to exit the loop.

The **repeat** loop runs as long as it is not broken explicitly.

```
myNumber <- 1

repeat
{
  print(myNumber)
  myNumber = myNumber + 1

  if(myNumber > 10)
    break
}
```



Basic syntax of repeat loop

Here, the **break** statement is executed when the conditional statement **myNumber > 10** evaluates to **TRUE**.

Note: The **conditional statement** we are using in this loop is opposite to that we used for the **while** loop. This is because the **while** loop can be interpreted as *loop until the condition returns FALSE*.

However, the **repeat** loop can be interpreted as *keep looping*, and if the **breaking condition** returns **TRUE**, only then, break the loop.

Break statement can be used with other loops as well to explicitly break them. For example, we can modify the original **while** loop that used to print numbers from 1 to 10 to print until 5 using **break** statement.

```
myNumber <- 1
while(myNumber <= 10)
{
  print(myNumber)
  myNumber = myNumber + 1

  if(myNumber > 5)
  {
    break
  }
}
```



Modifying the loop to print from 1 to 5

There is a short quiz in the next lesson to test your understanding of loops in the next lesson.