

## R Examples

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### R Basics

To run the code paste it into an R console window.

```
a <- 42
A <- a * 2 # R is case sensitive
print(a)
cat(A, "\n") # "84" is concatenated with "\n"
if(A>a) # true, 84 > 42
{
  cat(A, ">", a, "\n")
}

[1] 42
84
84 > 42
```

### Variables

R uses `<-` for variable assignment.

Don't call your variables any of the following:

- c, q, s, t, C, D, F, I, T
- diff, length, mean, pi, range, rank, time, tree, var
- if, function, NaN etc.

Howard Seltman provides more information about reserved terms in this "[Learning R](#)" lesson.

You can use underscores and periods in your identifiers. Google suggests `tree.count` for variables and `DoSomething` for functions.

### Comments

Comments start with a `#` sign. [Block Comments](#) can't be done nicely.

### print and cat

`print()` automatically appends a new line character to the output. With `cat()` you have to append it manually. `print()` can also show more types of content, such as functions:

```
print(cat)

> print(cat)
function (... , file = "", sep = " ", fill = FALSE, labels = NULL,
  append = FALSE)
{
  if (is.character(file))
    if (file == "")
      file <- stdout()
    else if (substring(file, 1L, 1L) == "|") {
      file <- pipe(substring(file, 2L), "w")
      on.exit(close(file))
    }
    else {
      file <- file(file, ifelse(append, "a", "w"))
      on.exit(close(file))
    }
  .Internal(cat(list(...), file, sep, fill, labels, append))
}
<environment: namespace:base>
```

[R Style Guide](#)  
[R Language Definition \(pdf\)](#)  
[R Function Info](#)  
[RStudio IDE](#)

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You can get the **documentation of a function** from the R console if you type `help(print)`.

## if statements

If statements are quite straightforward:

```
if(condition)
{
  doSth()
}
```

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