Introduction to R Software

Strings – Display and Formatting
:::
Splitting

Shalabh

Department of Mathematics and Statistics

Indian Institute of Technology Kanpur

Operations with Strings

Command `strsplit`, split the elements of a character vector.

"Split" can be a single character, or a character string:

Usage
`strsplit(x, split, fixed = FALSE, …)`

Arguments
`x`   character vector, each element of which is to be split.

`split`   character vector containing regular expression(s)
          (unless fixed = TRUE) to use for splitting.

Operations with Strings

❑ **With a command `strsplit`, we can split a string in pieces.**

```
> x <- "The&!syntax&!of&!paste&!is!&available!
&inthe online-help"

> x
[1] "The&!syntax&!of&!paste&!is!&available!
&inthe online-help"

> strsplit(x,"!")
[[1]]
[1] "The&"          "syntax&"     "of&"
[4] "paste&"        "is"          "&available"
[7] " &inthe online-help"
```

Operations with Strings

```
> x <- "The&!syntax&!of&!paste&!is!&available! &inthe online-help"
> x
[1] "The&!syntax&!of&!paste&!is!&available! &inthe online-help"
>
> strsplit(x,"!")
[[1]]
[1] "The&"                    "syntax&"              "of&"
[4] "paste&"                  "is"                   "&available"
[7] " &inthe online-help"
```

Operations with Strings

```
> x <- "The&!syntax&!of&!paste&!is!&available!
&inthe online-help"

> strsplit(x,"&!")
[[1]]
[1] "The"              "syntax&"
[3] "of"               "paste"
[5] "is!&available!&in the online-help"
```

Operations with Strings

```
> strsplit(x,"&!")
[[1]]
[1] "The"
[2] "syntax"
[3] "of"
[4] "paste"
[5] "is!&available!  &inthe online-help"
```

Operations with Strings

```
> x <- "The&!syntax&!of&!paste&!is!&available!
&inthe online-help"

> x
[1] "The&!syntax&!of&!paste&!is!&available!
&inthe online-help"

> l1 <- strsplit(x,"!&")

> l1
[[1]]
[1] "The&!syntax&!of&!paste&!is"    "available!
&inthe online-help"
```

Operations with Strings

```
> x <- "The&!syntax&!of&!paste&!is!&available! &inthe online-help"
> x
[1] "The&!syntax&!of&!paste&!is!&available! &inthe online-help"
>
> l1 <- strsplit(x,"!&")
> l1
[[1]]
[1] "The&!syntax&!of&!paste&!is"    "available! &inthe online-help"
```
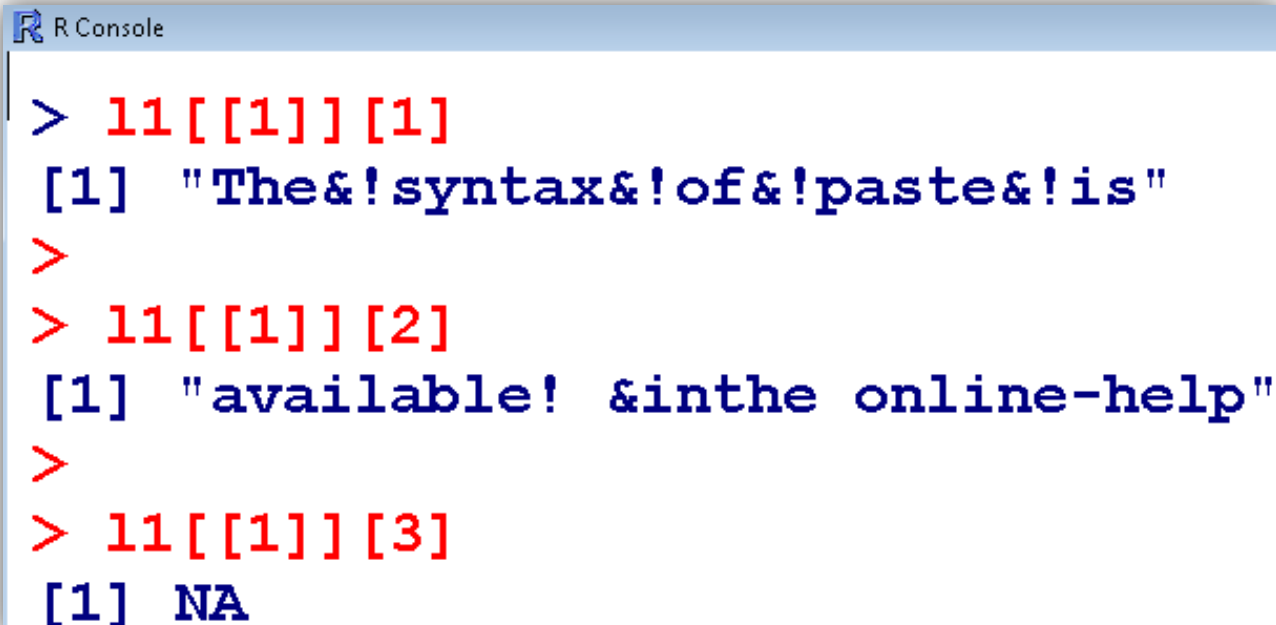
Operations with Strings

Notice the access to single components:

```
> l1[[1]][1]
[1] "The&!syntax&!of&!paste&!is"

> l1[[1]][2]
[1] "available! &inthe online-help"

> l1[[1]][3]
[1] NA
```