

# Strings

## 0.1 tidyverse:: stringr

```
library(tidyverse)
# single letter single quotes
# multiple letters use double quotes

s1 <- c("I believe")
str(s1)
```

```
chr "I believe"
```

```
typeof(s1)
```

```
[1] "character"
```

### 0.1.1 merge strings - concat

```
# str_c to concat strings
s2 <- str_c("I really", " believe ")
```

### 0.1.2 stringr functions

```
# lowercase
str_to_lower(s2)
```

```
[1] "i really believe "
```

```
str_length(s2)
```

```
[1] 17
```

```
# remove spaces  
s3 <- str_trim(s2, side="both")  
s3
```

```
[1] "I really believe"
```

```
str_length(s3)
```

```
[1] 16
```

---

### 0.1.3 strsplit (returns a list)

```
# output of website crawling  
t0 <- "gets%better%every%day"  
t1 <- strsplit(t0,split='%')  
t1
```

```
[[1]]  
[1] "gets"    "better" "every"  "day"
```

```
typeof(t1)
```

```
[1] "list"
```

#### 0.1.4 split into chars

```
u0 <- c("The quick brown fox jumps over the lazy dog")
u1 <- strsplit(u0, "")
u1
```

```
[[1]]
 [1] "T" "h" "e" " " "q" "u" "i" "c" "k" " " "b" "r" "o" "w" "n" " " "f" "o" "x"
[20] " " "j" "u" "m" "p" "s" " " "o" "v" "e" "r" " " "t" "h" "e" " " "l" "a" "z"
[39] "y" " " "d" "o" "g"
```

#### 0.1.5 split into words

```
u2 <- strsplit(u0, " ")
u2
```

```
[[1]]
[1] "The" "quick" "brown" "fox" "jumps" "over" "the" "lazy" "dog"
```

#### 0.1.6 regex can be used in strsplit

```
v0 <- "all16i5need6is4a%long8vacation"
v1 <- strsplit(v0, split="[0-9,%]+")
v1
```

```
[[1]]
[1] "all" "i" "need" "is" "a" "long" "vacation"
```