# Strings

## 0.1 tidyverse:: stringr

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

s1 <- c("I believe")

str(s1)
```

```
 chr "I believe"
```

```r
typeof(s1)
```

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

```r
class(s1)
```

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

### 0.1.1 merge strings - concat

```r
# 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
```

### 0.1.3 str_trim, str_replace_all

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

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

```
# removes all spaces
s4 <- str_replace_all(s2, "[ ]","")
s4
```

```
[1] "Ireallybelieve"
```

---

### 0.1.4 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"
```

### 0.1.5 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"
```

### 0.1.6 split into words

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

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

### 0.1.7 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"
```