BASE R STRING OPERATIONS CHEATSHEET

As people start realizing the importance of EDA nowadays, R becomes one of the most popular languages in the field of data analysis. However, switching from one language to another is painful in most cases: different syntax, unknown data types, inconsistent functions, etc. In addition to numeric values, **Strings** are the most common data type with which people deal. For this reason, I collect a series of **String Operations** supported by **Base R** into this cheat sheet and use Python as a reference.

STRING BASICS

Create	
R	Python
x <- 'my string'	x = 'my string'

Measure Length	
R	Python
nchar(x)	len(x)

Access	
R	substring(x , 1, 1)
Python	x [0]
Find the character in the string x by index.	
R	substring(x , 3, 5)
Python	x [2:5]
Find a substring of the string x by the start and end indices.	

STRING CHECK

Start & End with	
R	startsWith(x , 'R')
	endsWith(x , 'R')
Python	x .startswith('R')
	x.endswith('R')
Check if a string starts or ends	

with a certain character.

Contain	
R Python	
grepl('target', x)	'target' in x
Check if x contains a substring.	
! <i>grepl</i> ('\\D', x)	x .isnumeric()
Check if a string is numeric only with regular expressions.	

STRING MALNIPULATION

Clean	`
R	Python
trimws(x)	x .strip()
Remove any leading and trailing spaces in the string.	

Replace	
R	Python
sub(old, new, x)	x . <i>replace</i> (old, new)

Update		
R	substring(x , 1, 1) <- 'R'	
Python	x [0] = 'R'	
Change the character in the string x by index.		
R	<i>substring</i> (x , 3, 5) <- 'new'	
Python	x = x[:2] + 'new' + x[5:]	
Change a substring of the string x		

by the start and end indices.

Convert Cases		
R	Python	
tolower(x)	x.lower()	
toupper(x)	x .upper()	
Convert between lower cases and upper ones.		

Split & Concatenate	
R	Python
strsplit(x, split = '-')	x.split('-')
Split x into several parts based on a certain separator.	
paste(lst_x, collapse = '-')	'-'.join(lst_x)
Concatenate a list of strings into one by a certain connector.	