numeric_and_string_vars

September 23, 2020

Numeric and String Variables in R Paul Stey, Ph.D. 2020-09-12

1 1. Basic Math in R

```
In []: 13 + 7
In []: 13 + 7 * 100  # R knows about order of operations
In []: (13 + 7) * 100  # Can also use parentheses
```

1.1 1.1 Floating-Point (i.e., decimal) Number

2 2. Variable Assignment

```
In []: a <- 13 + 7  # Use the `<-` for assignment
In []: print(a)  # Now `a` stores value of `13 + 7` expression
In []: 5 + a  # We can continue to use `a` in subsequent code
In []: b <- 5 + a  # We can use `a` as part of new assignement expressions</pre>
```

2.1 2.1 Variable Re-Assignment

3 3. Character String Variables

```
In []: name <- "paul"
In []: print(name)  # print value of `name`
In []: full_name <- paste(name, "stey")  # paste can combine strings
In []: print(full_name)
In []: print(name)  # `name` variable is still the same</pre>
```

3.1 Other Functions Operating on Strings

```
In [ ]: fruit_string <- "mango peach"
In [ ]: nchar(fruit_string)  # count characters in string
In [ ]: upper_fruit <- toupper(fruit_string)  # convert to uppercase
In [ ]: print(upper_fruit)  # original variable is unchanged</pre>
```