Worksheet 10 - mapping

Wednesday, October 8, 2025

DS 002R - Jo Hardin

Name:	
Names of people you worked with:	
Among the group of you, how many people	in class can you name?
Task: Explain how c(1:3) is being used a output different?	s an argument in each line of code. Why is the
Random uniform numbers, runif()	Random uniform numbers, runif() as an anonymous function.
<pre>map(c(1:3), runif)</pre>	map(c(1:3), ~runif(n = 2))
[[1]] [1] 0.1499157	[[1]] [1] 0.4621728 0.2790713
[[2]] [1] 0.5948165 0.1950887	[[2]] [1] 0.3602725 0.3453277
[[3]] [1] 0.5367777 0.2196151 0.3811297	[[3]] [1] 0.1741363 0.9644047

Solution:

The idea of an anonymous function is that it creates a full new function, with an argument only if specified.

```
~runif(n = 2)
```

Is exactly the same as:

```
function(.x){
  runif(n = 2)
}
```

Important note: runif(n = 2) does not have .x as an argument!!! So each time the map() goes through the function, it ignores the value of the input and runs runif(n = 2).

```
map(c(10000000:10000002), ~runif(n = 2))

[[1]]
[1] 0.6084747 0.9809957

[[2]]
[1] 0.3837198 0.9046155

[[3]]
[1] 0.6207328 0.5680702

map(c("rainbow", "unicorn", "flowers"), ~runif(n = 2))

[[1]]
[1] 0.1587568 0.5259611

[[2]]
[1] 0.7222805 0.9548965

[[3]]
[1] 0.09594157 0.40610420
```