Functional Programming in R

Functions in R

- Functions in are treated just like any other data.
- They are assigned to variables just like any other object.
- They can be passed to other functions as arguments and returned by other functions as output.
- They can also be anonymous, meaning they can be passed as an argument with out being assigned to a variable.

for loops

You are probably used to `for` loops:

```
myData <- c(1, 2, 3, 4, 5)
for(i in 1:length(myData)){
    myData[i] <- myData[i] + 1
}
myData
```

parallel

Now that you are thinking functionally, imagine this:

A list of elements.

A single funciton.

Assign a portion of those element to each core and apply the function to those grouped elements.

Re-assemble those elements once they are complete.