

Intro to Functions

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what is a function??

All functions have the same structure:

```
myfunctionname <- function(argument1, argument2, ... ){  
  **allmycode goes here! with argument names in place of values!**  
  return(object)  
}
```

```
# let's see a basic example of this:
```

```
cube_me <- function(mynumber){  
  result <- mynumber ^ 3  
  return(result)  
}
```

```
cube_me(5)
```

```
[1] 125
```

```
# let's try another
```

```
otherteam_function <- function(teamname){  
  result <- paste0("The ", teamname, " stink!")  
}
```

```
    return(result)
}
```

```
otherteam_function("Cowboys")
```

```
[1] "The Cowboys stink!"
```

```
# now we'll try with TWO arguments instead of one
twoteam_function <- function(myteam, otherteam){

  result <- paste0("The ", myteam, " are going to wipe the floor with the ", otherteam)

  return(result)
}
```

```
twoteam_function("Eagles", "Cowboys")
```

```
[1] "The Eagles are going to wipe the floor with the Cowboys"
```

```
#Now can we automate feeding of list of teams - in this case vectors
myteams_vector <- c("Eagles", "Phillies", "Flyers")

otherteams_vector <- c("Cowboys", "Astros", "Stars")

twoteam_function(myteams_vector, otherteams_vector)
```

```
[1] "The Eagles are going to wipe the floor with the Cowboys"
[2] "The Phillies are going to wipe the floor with the Astros"
[3] "The Flyers are going to wipe the floor with the Stars"
```