

Motivation for Functional Programming in R

Daniel Emaasit

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Note: This is from *Functional Programming in R* <https://github.com/Emaasit/Functional-Programming-in-R> by Daniel Emaasit

Motivation

Advantages of FP:

- makes code more compact
- removes duplication
- makes code easy to understand

The “DRY” Principle: “Do not repeat yourself”

```
fix_missing <- function(x) {  
  x[x == -99] <- NA  
  x  
}  
df[] <- lapply(df, fix_missing)  
  
df[1:5] <- lapply(df[1:5], fix_missing)
```

Removing duplication

```
find_summary <- function(x) {  
  funs <- c(mean, median, sd, mad, IQR)  
  lapply(funs, function(f) f(x, na.rm = TRUE))  
}
```