

You should write a function in R – the challenge assignment is to use `Rcpp`. The function should be of reasonable complexity, with at least one default argument. As an example, you could write a function that downloads URLs that match a specific pattern in a larger string of text. Write an RMarkdown presentation that showcases your function by

1. describing the goal of the function,
2. walk through the more complex pieces of the code,
3. shows how to call/use the function, and
4. explains a default argument.

Our course website has a link to help you get started with [Rcpp](#). Also, this is an excellent, free, online book: [Advanced R](#).