

# Creating R Package

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Based on instructions in:

[http://web.mit.edu/insong/www/pdf/rpackage\\_instructions.pdf](http://web.mit.edu/insong/www/pdf/rpackage_instructions.pdf)  
using RStudio.

# Step 1: R source file

- Create function(s) in an R file (source file).
- Make sure the present directory is clear by,

```
rm(list = ls())  
ls()
```

- should see character(0)

## Step 2: devtools

- Install devtools package.

```
install.packages("devtools")
```

## Step 3: R package

- From menu, select **File > New Project > New Directory > R Package**.
- Type package name.
- Select your source file(s) under **Create package based on source files**.
- **Create Project**. This will generate relevant files and folders.

## Step 4: Fine tuning

- Edit DESCRIPTION file.
- Create manual file `your_function.Rd` in `man` folder, **File > New File > R Documentation**. Edit accordingly.

## Step 5: Build

- Select **Build > Install and Restart**.
- Select **Build > Clean and Rebuild** everytime you make any changes.
- Select **Build > Check Package** to check for errors.

# Example

- Download `reliability_0.1.0.tar.gz` from <https://github.com/wnarifin/r-medicine-meetup/tree/master/20190110>.
- Try to install the package, view the documentation.
- Explore the files folders inside the `.tar.gz`.