

## R packages - part 3

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# Basics of testing

The **testthat** package can be used to create an automatic testing directory for any of your packages.

**usethis** makes it easy to add testing to your package

```
library(usethis)  
use_testthat()  
use_test()
```

What happened?

## Basics of testing - creating a test

```
library(usethis)  
use_testthat()  
use_test()
```

- ▶ The first command created a testing infrastructure.
- ▶ The second command created a particular test skeleton for our soft function.

Modify the tests to create 2 test for soft-thresholding function.

Run the tests using Build— > More— > Test package

# Basics of testing - creating a test

In case `use_test()` has issues, run

```
use_test("Picked name for the tests")
```

For example

```
use_test("soft")
```

This will create **test-soft.R** with a basic test skeleton.

You can add

```
context("soft")
```

to make sure it is identified in a specific context.

## Getting it on GITHUB - reminder

You may want to make your package available to the public via GitHub.

**devtools** R package will allow others to seamlessly install any R package that is on GitHub.

**Reminder:** From local to GitHub

- ▶ Commit the work we have done, if not already.
- ▶ Setup a new repository on GitHub **without** **readme**
- ▶ Use

```
git remote add origin [URL path to created repo on GitHub]
git push --set-upstream origin master
```