



INWT Statistics

# INWT Statistics GmbH

## Writing R Packages for Clients

Mira Céline Klein | 16 May 2018



# Why R packages?

Why not just functions?

## Share code



# Documentation with roxygen2

```
hello.R x
Source on Save
1 #' Say hello
2 #' @description Greet someone in a nice and simple way.
3 #' @param who character: who is greeted
4 #' @export
5 hello <- function(who = "world"){
6   paste("Hello", who)
7 }
8
```

Files Plots Packages Help Viewer

R: Say hello Find in Topic

hello {package}

## Say hello

### Description

Greet someone in a nice and simple way.

### Usage

```
hello(who = "world")
```

### Arguments

who character: Who is greeted

# Documentation with roxygen2

```
hello.R x
Source on Save
1 #' Say hello
2 #' @description Greet someone in a nice and simple way.
3 #' @param who character: who is greeted
4 #' @export
5 hello <- function(who = "world"){
6   paste("Hello", who)
7 }
8
```

Files Plots Packages Help Viewer

R: Say hello Find in Topic

hello {package}

## Say hello

### Description

Greet someone in a nice and simple way.

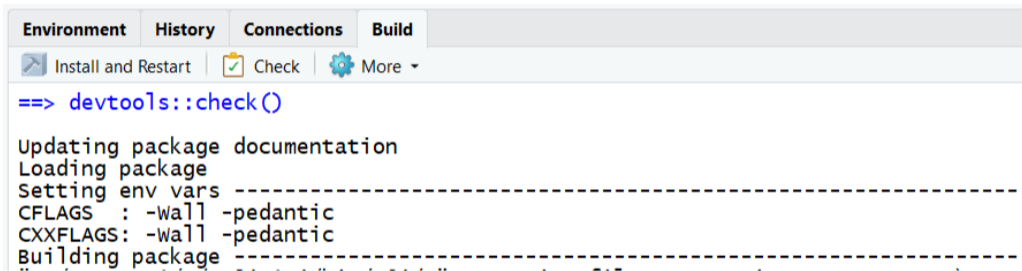
### Usage

```
hello(who = "world")
```

### Arguments

who character: Who is greeted

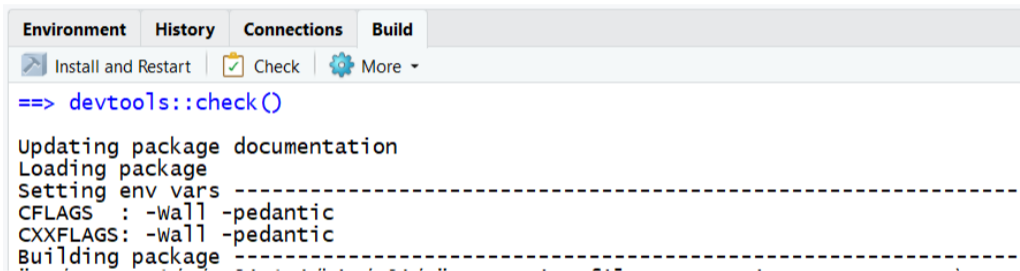
# R CMD check



```
Environment History Connections Build
Install and Restart | Check | More
==> devtools::check()

Updating package documentation
Loading package
Setting env vars -----
CFLAGS : -Wall -pedantic
CXXFLAGS: -Wall -pedantic
Building package -----
```

# R CMD check



The screenshot shows a software interface with a menu bar containing 'Environment', 'History', 'Connections', and 'Build'. Below the menu bar is a toolbar with three items: 'Install and Restart' (with a refresh icon), 'Check' (with a checkmark icon), and 'More' (with a gear icon and a dropdown arrow). The main area displays the command `==> devtools::check()` and its output:

```
Updating package documentation
Loading package
Setting env vars -----
CFLAGS : -Wall -pedantic
CXXFLAGS: -Wall -pedantic
Building package -----
```

## Package ‘testthat’

December 13, 2017

**Title** Unit Testing for R

**Version** 2.0.0

**Description** Software testing is important, but, in part because it is frustrating and boring, many of us avoid it. 'testthat' is a testing framework for R that is easy learn and use, and integrates with your existing 'workflow'.

**License** MIT + file LICENSE

**URL** <http://testthat.r-lib.org>, <https://github.com/r-lib/testthat>



## Package ‘testthat’

December 13, 2017

**Title** Unit Testing for R

**Version** 2.0.0

**Description** Software testing is important, but, in part because it is frustrating and boring, many of us avoid it. 'testthat' is a testing framework for R that is easy learn and use, and integrates with your existing 'workflow'.

**License** MIT + file LICENSE

**URL** <http://testthat.r-lib.org>, <https://github.com/r-lib/testthat>

# Version control



**git**

# Version control



**git**

# Version control



**git**

# Styleguide



R news and tutorials contributed by (750) R bloggers

HomeAboutRSSadd your blog!Learn RR jobs ▾Contact us

WELCOME!

 Follow @rbloggers 58.1k

Here you will find daily **news and tutorials about R**, contributed by over 750 bloggers.

There are many ways to **follow us** -  
By e-mail:

Your e-mail here

Subscribe

47748 readers  
BY FEEDBURNER

On Facebook:

 R blog...  
71.918 „Gefällt ...

## INWT's guidelines for R code

January 25, 2018  
By INWT-Blog-RBloggers

 Like 22 Share Share

(This article was first published on INWT-Blog-RBloggers, and kindly contributed to R-bloggers)

 Share

 Tweet

*"It turns out that style matters in programming for the same reason that it matters in writing. It makes for better reading."* **Douglas Crockford in JavaScript: The Good Parts**

Why do we need yet another style guide?

SEARCH R-BLOGGERS



RECENT POPULAR POSTS

Scraping a website with 5 lines of R code  
Exploratory Data Analysis & Data Preparation with 'funModeling'

MOST VISITED ARTICLES OF THE WEEK

1. How to write the first for loop in R
2. Installing R packages
3. How to Make a Histogram with Basic R
4. How to perform a Logistic Regression in R

# Styleguide



R news and tutorials contributed by (750) R bloggers

Home | About | RSS | add your blog! | Learn R | R jobs | Contact us

WELCOME!

[Follow @rbloggers](#) 58.1k

Here you will find daily news and tutorials about R, contributed by over 750 bloggers.

There are many ways to follow us -

By e-mail:

Your e-mail here

Subscribe

47748 readers BY FEEDBURNER

On Facebook:

## INWT's guidelines for R code

January 25, 2018  
By INWT-Blog-RBloggers

Like 22 Share in Share

(This article was first published on INWT-Blog-RBloggers, and kindly contributed to R-bloggers)

Share Tweet

*"It turns out that style matters in programming for the same reason that it matters in writing. It makes for better reading."* Douglas Crockford in **JavaScript: The Good Parts**

Why do we need yet another style guide?

SEARCH R-BLOGGERS

Google Custom Search

RECENT POPULAR POSTS

Scraping a website with 5 lines of R code  
Exploratory Data Analysis & Data Preparation with 'funModeling'

MOST VISITED ARTICLES OF THE WEEK

1. How to write the first for loop in R
2. Installing R packages
3. How to Make a Histogram with Basic R
4. How to perform a Logistic Regression in R



**INWT** Statistics

*Thanks for your attention!*

-  **INWT** Statistics GmbH  
Hauptstraße 8  
Meisenbach Höfe, Aufgang 3a  
10827 Berlin
-  +49 30 12082310
-  [info@inwt-statistics.de](mailto:info@inwt-statistics.de)
-  [www.inwt-statistics.de](http://www.inwt-statistics.de)

