

Write an R package in 15 minutes

Barcelona, 13th June 2017



GRUP D'USUARIS D'R DE BARCELONA

Luca Cerone <luca.cerone@gmail.com>

What's in an R package

- Set of conventions (basic):
 - ./R/ contains source code
 - NAMESPACE, DESCRIPTION files
 - ./man/ contains documentation pages
 - ./vignettes/ tutorials, use cases
 - ./tests/ tests for functions
 - many others (depends on package complexity)

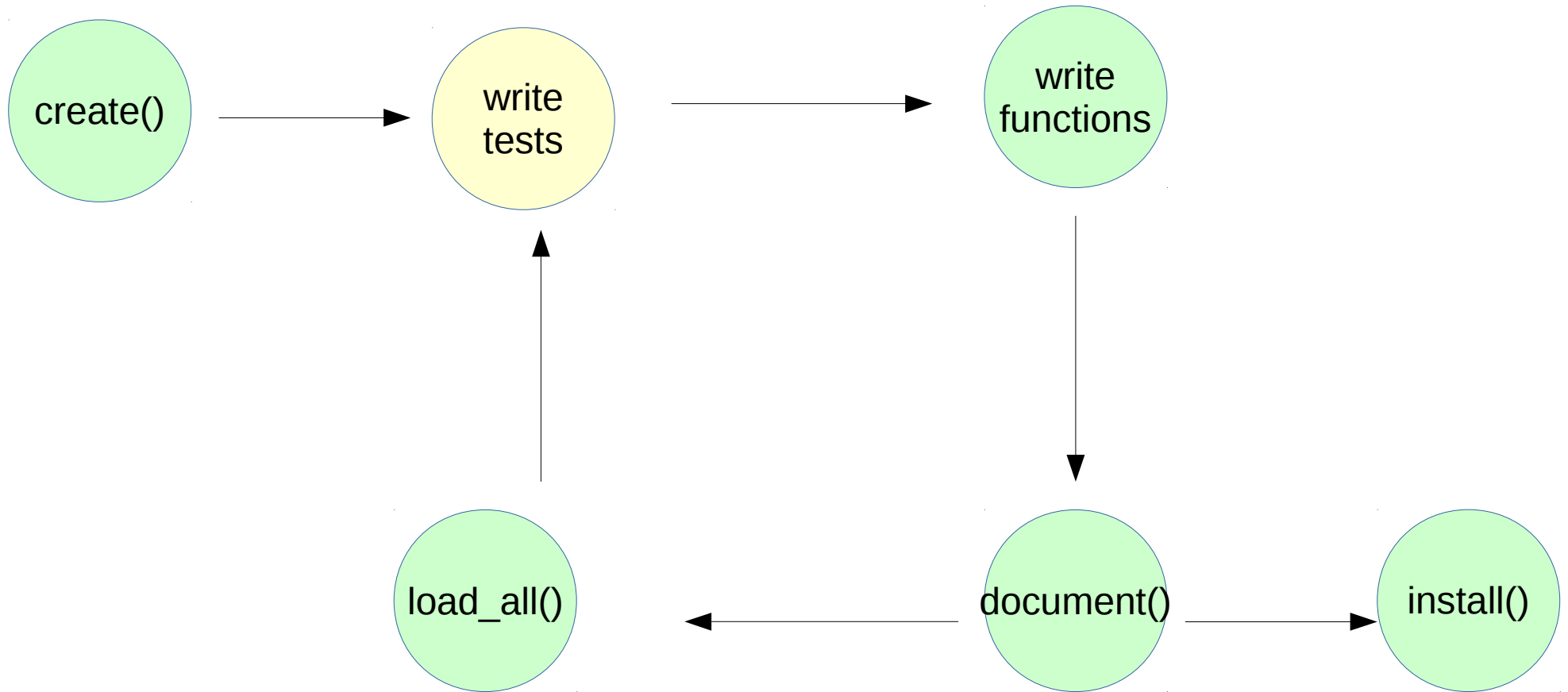
R package: devtools

old: `package.skeleton()` ... most of the maintenance has to be done by hand...

new: devtools package by Hadley Wickham

- implements a flexible and easy to use workflow for package development
- it interfaces nicely with git (local repos, github, bitbucket, gitorious)
- makes packages ready for CRAN
- easily helps creating NAMESPACE
- makes easy to write functions documentation and vignettes, share data, manage tests

devtools workflow



```
#' Say hi
#'  
#' @param name Character, the name to which the  
function says hi.  
#'  
#' @return  
#' @export  
#'  
#' @examples  
#' say_hi("Luca")  
say_hi <- function(name = NULL){  
  if(is.null(name)){  
    stop("Sorry I need a name, whom should I  
greet?")  
  }  
  message(paste("Hi", name, "!"))  
}
```