

Testing rendering environments in rmarkdown

Context

I am rendering the vignette as follow:

```
vignette_env <- new.env(parent = as.environment("package:stats"))
vignette_path <- rmarkdown::render(path_complete, quiet = TRUE, envir = vignette_env)
```

The full code is:

```
testenvrmarkdown::build_extravignette
```

```
## function ()
## {
##   path1 <- paste0(find.package("testenvrmarkdown"), "/inst/extdata/")
##   path2 <- paste0(find.package("testenvrmarkdown"), "/extdata/")
##   if (dir.exists(path1)) {
##     path <- path1
##   }
##   if (dir.exists(path2)) {
##     path <- path2
##   }
##   path_complete <- normalizePath(paste0(path, "vignette_test",
##     ".Rmd"), mustWork = TRUE)
##   vignette_env <- new.env(parent = as.environment("package:stats"))
##   vignette_path <- rmarkdown::render(path_complete, quiet = TRUE,
##     envir = vignette_env)
##   utils::browseURL(vignette_path)
##   invisible(vignette_path)
## }
## <bytecode: 0x7ff8f40d0c50>
## <environment: namespace:testenvrmarkdown>
```

Issue(s)

Based on the content of `build_extravignette()` used to build the vignette, I would expect not to find my package in the namespaces listed here (nor the global env):

Yet, my package appears among the attached ones (before loading the package) in the vignette:

```
search()
```

```
## [1] ".GlobalEnv"          "package:testenvrmarkdown" "tools:rstudio"  
## [4] "package:stats"        "package:graphics"       "package:grDevices"  
## [7] "package:utils"        "package:datasets"       "package:methods"  
## [10] "Autoloads"           "package:base"
```

Question 1: why is my package attached?

Since my package is attached, I would expect `hello()` to work, but it does not: Attempt at using `hello()` before loading the package:

```
hello()
```

```
## Error in hello(): could not find function "hello"
```

Question 2: why is `hello()` not found?

I now load the package:

```
library(testenvrmarkdown)
```

Nothing seems to happen:

```
search()
```

```
## [1] ".GlobalEnv"          "package:testenvrmarkdown" "tools:rstudio"  
## [4] "package:stats"        "package:graphics"       "package:grDevices"  
## [7] "package:utils"        "package:datasets"       "package:methods"  
## [10] "Autoloads"           "package:base"
```

Another attempt at using `hello()` after loading the package:

```
hello()
```

```
## Error in hello(): could not find function "hello"
```

Question 3: why is `hello()` still not found?