

Customizing and extending Emacs Speaks Statistics

Frédéric Santos¹

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¹frederic.santos@u-bordeaux.fr

A word about use-package

In this document, several pieces of Emacs Lisp code will be proposed so that you can use them in your init file.

It is assumed that you use use-package for your init file: the Emacs Lisp code can be adapted in a straightforward manner if you do not use it.

As a reminder, this is the minimal code to add in your init file so as to use use-package, once it has been installed:

```
(unless (package-installed-p 'use-package)
  (package-refresh-contents)
  (package-install 'use-package))
(eval-when-compile
  (require 'use-package))
```

Documentation popups I

company-quickhelp allows for documentation popups, e.g. to further describe function arguments.

The screenshot shows the Emacs editor interface with the title bar 'emacs@fsantos-portable'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Imenu-R', 'RMarkdown', 'ESS', 'YASnippet', and 'Help'. The main editor window contains R code:

```
1 library(car)
2 reg <- lm(Sepal.Width ~ Species, data = iris)
3 Anova(reg,
  mod =
  type =
  test.statistic =
  vcov =
  singular.ok =
  error =
  error.estimate =
  white.adjust =
  SSPE =
  error.df =
```

A documentation popup is displayed over the 'type =' line. It contains the following text:

```
1
2 R version 4.0.3 (2020-10-10) -- "Bunny-Wunnies Freak Out"
3 Copyright (C) 2020 The R Foundation for Statistical Computing
4
5 type of test, "II", "III", 2, or 3. Roman numerals are equivalent to
6 the corresponding Arabic numerals.
7 vous pouvez le redistribuer sous certaines conditions.
8 Tapez 'license()' ou 'licence()' pour plus de détails.
9
10 R est un projet collaboratif avec de nombreux contributeurs.
11 Tapez 'contributors()' pour plus d'information et
12 'citation()' pour la façon de le citer dans les publications.
13
14 Tapez 'demo()' pour des démonstrations, 'help()' pour l'aide
15 en ligne ou 'help.start()' pour obtenir l'aide au format HTML.
16 Tapez 'q()' pour quitter R.
17
18 > setwd('/home/fsantos/Documents/')
19 > library(car)
20 Le chargement a nécessité le package : carData
21 > reg <- lm(Sepal.Width ~ Species, data = iris)
22 >
```

Figure 1: Documentation popups with company-quickhelp.

Documentation popups II

The minimal elisp code to add to your init file is straightforward:

```
(use-package company-quickhelp
  :ensure t
  :config
  ;; Load company-quickhelp globally:
  (company-quickhelp-mode)
  ;; Time before display of documentation popup:
  (setq company-quickhelp-delay 0.3))
```

By default, the documentation popup is shown automatically. You can adjust the time before the popup shows up by customizing the variable `company-quickhelp-delay`.