

El-Get

M-x apt-get

Dimitri Fontaine dim@tapoueh.org

March, 30 2013

2ndQuadrant France PostgreSQL Major Contributor Emacs Lisp Hacker

- pgloader, prefix, skytools, debian, ...
- CREATE EXTENSION
- CREATE EVENT TRIGGER
- *El-Get*
- *Emacs Lisp, Common Lisp*



Emacs: Emacs Lisp

How I used to do things

`C-x C-/` runs the command `goto-last-change`

- Talk about it on IRC
- Search for it in <http://emacswiki.org>
- `wget` the file
- Somewhere in your `load-path`
- Beware of whole directories vs single file
- Read installation notes, edit your setup to require it
- Look for docs (`.info`) and install those yourself

How I used to do things

`C-x C-/` runs the command `goto-last-change`

- Now try it!
- If you like it, you're about done (*customizing*)
- Just think about upgrading to a newer version, if needed
- (e.g. to support a newer Emacs)
- If you don't like it, undo all the previous bits

Managing Emacs Extensions

Installing is but the first step

- Version Control as if it were yours
- Sharing to other machines

How much can you install and manage this way?

You tend to only install *trusted* extensions

El-Get



Think apt-get for Emacs

Social Package Management System

- M-x el-get-list-packages
- M-x el-get-describe
- M-x el-get-install
- M-x el-get-update, M-x el-get-reload
- M-x el-get-remove
- M-x el-get-self-update



Features

moar please

- Package dependencies
- Cleanup command (*autoremove*)
- Extensive Info Documentation, with a Glossary!
- Stable branch is very stable...
- Easy install
- Good default setup, more complex setup supported
- Easy per-package setup (`e1-get-user-package-directory`)
- Autoloads

Features

moar please

- Checksum support
- git: Shallow clones
- git: Submodules
- Per system-type build commands
- Windows support (users called) (yes they still exist)
- Build commands, byte-compile
- Recipe Checker

What happens at `el-get-install` time?

- El-Get knows how to fetch the extension
- Even if it's more than a single file
- The *recipe* contains the necessary installation bits
- Docs get installed and integrated into your C-h i
- The package is *byte-compiled*
- Then auto-loaded
- If the *recipe* says so, features are required

Hey it's Emacs, I want to do it my own way!

- Initializing a package involves custom actions
- `el-get-sources`
- `:before`, `:after`, `:features`
- `el-get-user-package-directory`, `init-pkgname.el`
- `M-x el-get-init`

Recipes

Gimme your recipes

All your recipes are belong to us!

- recipes are packaging script
- can be pretty simple
- can be pretty involved
- easy enough to make your own locally
- `el-get-sources` or in a local file
- require no edits of upstream sources
- find a recipe with `M-x el-get-find-recipe-file`

Recipe Example 1, el-get

el-get is self-hosted and has a `*scratch*` installer

```
(:name el-get
 :website "https://github.com/dimitri/el-get#readme"
 :description "Manage the external elisp bits and pieces you c
 :type github
 :branch "4.stable"
 :pkgname "dimitri/el-get"
 :info    "."
 :load    "el-get.el")
```


Recipe Example 2, escreen

Escreen is available on some website, not ELPA ready, Copyright 1992, 94, 95, 97, 2001, 2005 Noah S. Friedman

```
(:name escreen
 :description "Emacs window session manager"
 :type http
 :url "http://www.splode.com/~friedman/software/emacs-lisp/src"
 :post-init (lambda ()
              (autoload 'escreen-install "escreen" nil t)))
```

Recipe Example 3

Solarized is a recent color-theme, and has been a fast moving target, hosted at github, not available as an ELPA package.

```
(:name color-theme-solarized
 :description "Emacs highlighting using Ethan Schoonover's So
 :type github
 :pkgname "sellout/emacs-color-theme-solarized"
 :depends color-theme
 :prepare (progn
           (add-to-list 'custom-theme-load-path default-directo
           (autoload 'color-theme-solarized-light "color-theme
             "color-theme: solarized-light" t)
           (autoload 'color-theme-solarized-dark "color-theme
             "color-theme: solarized-dark" t)))
```

Sharing Recipes

Distributed packaging: the Emacs Packages Social Network

Just email your recipe to your friend

Sharing Recipes

Distributed packaging: the Emacs Packages Social Network

- Once tested, send them to me (github, mail)
- Once pushed, `el-get-self-update`
- Available in M-x `el-get-install`
- and in M-x `el-get-describe`
- and in M-x `el-get-list-packages`

Where to get the packages from?

El-Get has more than one *method* to fetch your package

- git (with branch support), git-svn
- github, github-tar, github-zip
- http, http-tar, http-zip, ftp
- emacswiki, M-x el-get-emacswiki-refresh
- emacsmirror
- svn, bzd, darcs, cvs, hg, fossil
- apt-get, pacman, fink, brew
- elpa (multi repositories, :repo)

Installing and Using El-Get

The *scratch* installer

*;; So the idea is that you copy/paste this code into your *scratch* buffer.
;; hit C-j, and you have a working el-get.*

```
(url-retrieve
 "https://github.com/dimitri/el-get/raw/master/el-get-install.el"
 (lambda (s)
  (end-of-buffer)
  (eval-print-last-sexp)))
```

The initial setup in .emacs

```
(add-to-list 'load-path "~/.emacs.d/el-get/el-get")

(unless (require 'el-get nil 'noerror)
  (with-current-buffer
    (url-retrieve-synchronously
     "https://raw.githubusercontent.com/dimitri/el-get/master/el-get-init.el")
    (goto-char (point-max))
    (eval-print-last-sexp)))

(el-get 'sync)
```


Active Community

Some numbers, because we know you like them

- 181 contributors
- 748 recipes included
- 1795 emacswiki files supported
- 3054+ emacsmirror repositories
- 7200+ lines of emacs-lisp fun (including 20% of comments)
- 2+ years old, long time stable, production ready

El-Get. Any question?

