

Table of Contents

Emacs	1
Packages.....	1
Collection of Emacs Development Tools (CEDET).....	1
emacs-for-python.....	2
auctex.....	2
misc (Rainbow delimiters, multicursor, puppet, ..).....	3
Installation procedure.....	3
Emacs installation.....	3
auctex installation.....	3
cedet installation.....	3

Emacs

Emacs 24.3. is installed in the clic software folder Including auctex & reftex (latex mode), cedet and some additional emacs packages.

Add the location of the emacs binary to your path

```
export PATH=/afs/cern.ch/eng/clic/software/emacs/emacs-24.3.1/bin:${PATH}
```

Packages

To use the different packages add the following to your .emacs file

Collection of Emacs Development Tools (CEDET)

Add to the list of custom-set-variables (Usually at the top of the .emacs file)

```
'(semantic-idle-scheduler-idle-time 3)
'(semantic-self-insert-show-completion-function (lambda nil (semantic-ia-complete-symbol-menu (p
```

Add this somewhere else in the .emacs file

```
(load-file "/afs/cern.ch/eng/clic/software/emacs/cedet/lisp/cedet/cedet.el")
(require 'semantic)
(semantic-mode 1)
(global-semantic-decoration-mode 1)
(global-semantic-stickyfunc-mode 1)
(require 'semantic/lex-spp)
(require 'semantic/ia)
(require 'srecode)

(defun my-cedet-hook ()
  (local-set-key "\C-c \C-m" 'semantic-ia-complete-symbol)
  (local-set-key "\C-c?" 'semantic-ia-complete-symbol)
  (local-set-key "\C-c>" 'semantic-complete-analyze-inline)
  (local-set-key "\C-c=" 'semantic-decoration-include-visit)

  (local-set-key "\C-cj" 'semantic-ia-fast-jump)
  (local-set-key "\C-cq" 'semantic-ia-show-doc)
  (local-set-key "\C-cs" 'semantic-ia-show-summary)
  (local-set-key "\C-cp" 'semantic-analyze-proto-impl-toggle)
)

(add-hook 'c-mode-common-hook 'my-cedet-hook)
(global-srecode-minor-mode 1)

(defun my-c-mode-cedet-hook ()
  (local-set-key "." 'semantic-complete-self-insert) ; starts completion when pressing "."
  (local-set-key ">" 'semantic-complete-self-insert) ; starts completion when pressing ">"
  (local-set-key "\C-c\C-r" 'semantic-symref)
)
(add-hook 'c-mode-common-hook 'my-c-mode-cedet-hook)
```

For c++ add paths to include directories or PreProcessor definitions, just examples, add your own as required

```
(semantic-add-system-include (concat (getenv "ROOTSYS") "/include/") 'c++-mode)
(add-to-list 'semantic-lex-c-preprocessor-symbol-map '("LCIO_MODE" . "1"))
```

Call compile command inside emacs

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```
(defun my-c++-mode-hook ()
  (define-key c++-mode-map [f5] 'compile)
  (define-key c++-mode-map [f6] 'next-error)
  (define-key c++-mode-map [f7] 'previous-error)
  (define-key c++-mode-map [f8] 'recompile)
  ; (local-set-key [F12] 'compile)
)
(add-hook 'c++-mode-hook 'my-c++-mode-hook)
```

emacs-for-python

Add to the .emacs file

```
(add-to-list 'load-path "/afs/cern.ch/eng/clic/software/emacs/LispPackages/emacs-for-python/")
(require 'epy-setup) ;; It will setup other loads, it is required!
(require 'epy-python) ;; If you want the python facilities [optional]
(require 'epy-completion) ;; If you want the autocompletion settings [optional]
(require 'epy-editing) ;; For configurations related to editing [optional]
;(require 'epy-bindings) ;; For my suggested keybindings [optional]
;(require 'epy-nose) ;; For nose integration

;; (epy-setup-checker "epylint %f --rcfile=~/.DIRAC.pylint.rc")

(require 'highlight-indentation)
(add-hook 'python-mode-hook 'highlight-indentation)

(add-hook 'python-mode-hook '(lambda ()
  (setq python-indent 2)))

;; Python Hook
(add-hook 'python-mode-hook
  (function (lambda ()
    (setq indent-tabs-mode nil
          tab-width 2))))

;; Python-mode
(defun my-python-mode-hook ()
  (define-key python-mode-map [f6] 'flymake-goto-next-error)
  (define-key python-mode-map [f7] 'flymake-goto-prev-error)
)
(add-hook 'python-mode-hook 'my-python-mode-hook)
```

Add to the PYTHONPATH variable (so that pylint is found) export

```
PYTHONPATH=/afs/cern.ch/eng/clic/software/PythonPackages-Linux_x86_64_glibc-2.12:${PYTHONPATH}
```

auctex

Add to the list of custom-set-variables (Usually at the top of the .emacs file)

```
'(LaTeX-includegraphics-read-file (quote LaTeX-includegraphics-read-file-relative))
'(LaTeX-top-caption-list (quote ("table")))
'(TeX-electric-sub-and-superscript t)
'(TeX-insert-braces nil)
'(TeX-view-program-list (quote (("ACROBAT" "acroread %o"))))
'(TeX-view-program-selection (quote ((output-dvi style-pstricks) "dvips and gv") (output-dvi "x
'(bibtex-mode-hook (quote (BibTeX-auto-store) t)
'(reftex-cite-format (quote default))
'(reftex-ref-macro-prompt t)
```

Add this somewhere else in the .emacs file

```
(load "auctex.el" nil t t)
(load "preview-latex.el" nil t t)

;; ReFTex for cite support
(add-hook 'LaTeX-mode-hook 'turn-on-reftex) ; with AUCTeX LaTeX mode

(setq TeX-parse-self t) ; Enable parse on load.
(setq TeX-auto-save t) ; Enable parse on save.
```

misc (Rainbow delimiters, multicursor, puppet, ...)

Installation procedure

Emacs installation

```
<PathToEmacsSource>/configure --prefix=<installationDir> --with-tiff=no --with-xpm=no --without-g
make
make install
```

auctex installation

```
git clone http://git.savannah.gnu.org/cgit/auctex.git
cd auctex
autogen.sh
./configure --prefix=<auctexInstallationDir> --with-emacs=<emacsInstallationDir>/bin/emacs --with
make
make install
```

cedet installation

```
git clone http://git.code.sf.net/p/cedet/git cedet
cd cedet
make EMACS=<emacsInstallationDir>/bin/emacs
```

-- AndreSailer - 24 Jul 2014

This topic: CLIC > Emacs

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