#### **EMMS**

Play & Manage Music in Emacs

**Igfang** 

plexus platform

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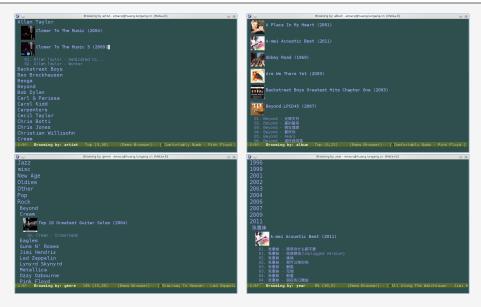
- 1 为什么是Emacs
- 2 基本功能
- 3 定制、扩展与补丁

#### 为什么用Emacs管理音乐?

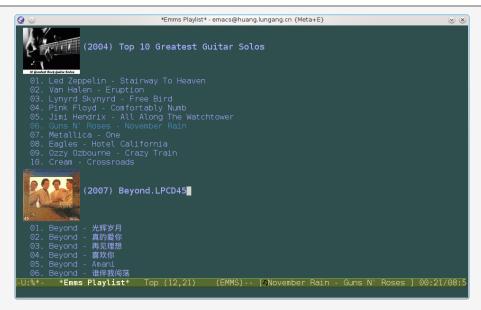
- (我觉得)简洁、实用的界面
- 跨平台
- 无限扩展
- 无限定制
- 其它各种Emacs的便利

- 1 为什么是Emacs
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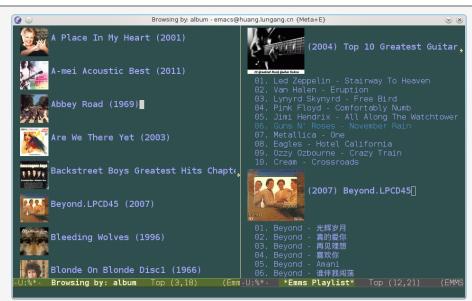
## 分类(专辑、流派等)浏览音乐库



#### 播放列表



#### 同时显示,选歌更方便



#### 闲的时候会想看看同步歌词



#### 没有图形环境照用不误

```
lgfang@huang:~
                                                                          Bleeding Wolves (1996)
Blonde On Blonde Disc1 (1966)
                                         年且把拥有变做失去
Blonde On Blonde Disc2 (1966)
Blood On The Tracks (1975)
Blue Eves (1993)
Breathe (1999)
Carol Kidd Gold (1995)
Carpenters Gold (2002)
Cat on a Hot Fiddle (1959)
Chris Botti In Boston (2009)
Closer To The Music (2004)
·UUU:%*--F1 Browsing by: album 14% (17,1不分你我高低
(2007) Beyond.LPCD45
 01. Beyond - 光辉岁月
 02. Beyond - 真的爱你
 03. Beyond - 再见理想
                                         年月把拥有变做失去
 04. Beyond - 喜欢你
 05. Beyond - Amani
 06. Beyond - 谁伴我闯荡
 07. Beyond - 午夜怨曲
 08. Beyond - 灰色轨迹
 09. Beyond - 冷雨夜
 10. Beyond - 大地
 11. Beyond - 无悔这一生
                            Top (1,0) -- [NP:光辉岁月 - Beyond ] 01:03/05:00
·UUU:%*--F1 *Emms Plavlist*
```

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#### 专辑视图里把年份放在最后 (参见前图)

这样专辑视图里专辑就按名称排序,而不是"先年份再名称"排序。

#### 自动下载歌词

```
(when (require 'emms-lyrics-download nil t) (ad-activate 'emms-lyrics-find-lyric))
歌名、歌手名中带单引号打这个补丁:
                                       2010-06-09 23:37:03.000000000 +0800
*** lgfang/emms-lyrics-download.el~
   lgfang/emms-lyrics-download.el
                                       2012-01-01 11:42:55.000000000 +0800
******
*** 36,42 ****
    (let* ((itrack (emms-playlist-current-selected-track))
         (artist (emms-track-get itrack 'info-artist))
         (title (emms-track-get itrack 'info-title))
         (iartist (replace-regexp-in-string "[ ,]" "" artist))
         (ititle (replace-regexp-in-string "[ .]" "" title))
         (uartist (http-url-encode iartist 'gb2312))
         (utitle (http-url-encode ititle 'gb2312))
--- 36,42 ----
    (let* ((itrack (emms-playlist-current-selected-track))
         (artist (emms-track-get itrack 'info-artist))
         (title (emms-track-get itrack 'info-title))
         (iartist (replace-regexp-in-string "[ .']" "" artist))
         (ititle (replace-regexp-in-string "[ ,']" "" title))
         (uartist (http-url-encode iartist 'gb2312))
         (utitle (http-url-encode ititle 'gb2312))
```

#### 中文的哈希好像有点问题

经常出现专辑不显示的情况,打上这个patch就好了(貌似armarok也有这个问题,不过还是emacs改起来简单)。

(when (require 'emms-lyrics-download nil t) (ad-activate 'emms-lyrics-find-lyric))

```
歌名、歌手名中带单引号打这个补丁:
*** lgfang/emms-lvrics-download.el~
                                       2010-06-09 23:37:03.000000000 +0800
--- lgfang/emms-lyrics-download.el
                                       2012-01-01 11:42:55.000000000 +0800
*** 36,42 ****
    (let* ((itrack (emms-playlist-current-selected-track))
         (artist (emms-track-get itrack 'info-artist))
         (title (emms-track-get itrack 'info-title))
         (iartist (replace-regexp-in-string "[ ,]" "" artist))
         (ititle (replace-regexp-in-string "[ ,]" "" title))
         (uartist (http-url-encode iartist 'gb2312))
         (utitle (http-url-encode ititle 'gb2312))
--- 36,42 ----
    (let* ((itrack (emms-playlist-current-selected-track))
         (artist (emms-track-get itrack 'info-artist))
         (title (emms-track-get itrack 'info-title))
         (iartist (replace-regexp-in-string "[ ,']" "" artist))
         (ititle (replace-regexp-in-string "[ ,']" "" title))
         (uartist (http-url-encode iartist 'gb2312))
         (utitle (http-url-encode ititle 'gb2312))
```

#### flac歌曲的标签信息不对

```
*** /home/lgfang/tmp/emms/lisp/emms-info-metaflac.el
                                                         2011-01-09 21:53:40.904903408
     +0800
--- /home/storage/daily/my-notes/emacs/extensions/emms/emms-info-metaflac.el
     2011-01-10 20:56:29 000000000 +0800
*** 62.68 ****
      "--show-tag=ARTIST"
      "--show-tag=ALBUM"
      "--show-tag=NOTE"
     "--show-tag=YEAR"
      "--show-tag=TRACKNUMBER"
      "--show-tag=GENRE")
    "The argument to pass to 'emms-info-metaflac-program-name'."
--- 62.68 ----
      "--show-tag=ARTIST"
      "--show-tag=ALBUM"
      "--show-tag=NOTE"
     "--show-tag=DATE"
      "--show-tag=TRACKNUMBER"
      "--show-tag=GENRE")
    "The argument to pass to 'emms-info-metaflac-program-name'."
  ********
*** 91,97 ****
                               (string-to-number (buffer-substring (point)
                                     (line-end-position)))))
          (forward-line 1)
          (while (looking-at "^{\(\hat{}^=\n]+\)=\(.*\)$")
            (let ((name (intern (concat "info-" (downcase (match-string 1)))))
                  (value (match-string 2)))
```

## flac歌曲的标签信息不对 (cont'd)

#### 恢复缓存 (emms cache) 时清掉现有的

#### 默认是不清除的。我觉得用处不大,于是改了改。

#### 同步显示歌词的补丁

同步显示歌词的功能其实用处不大,不过没有好像又有点被人鄙 视:), 所以我稍微改了改emms源码实现了这个功能:

```
*** /tmp/ediff2397pPj
                      2010-07-11 23:09:51.000000000 +0800
--- /home/lgfang/homepage/source/emacs/extensions/emms/emms-lvrics.el
                                                                         2010-07-11
     23:09:02.00000000 +0800
**********
*** 41.47 ****
  ;; 3. Search .lrc format lyrics from internet ?
  ;;; Code:
  (require 'emms)
  (require 'emms-player-simple)
  (require 'emms-source-file)
--- 41.47 ----
  ;; 3. Search .lrc format lyrics from internet ?
  ::: Code:
! (require 'hl-line)
  (require 'emms)
  (require 'emms-player-simple)
  (require 'emms-source-file)
 *********
*** 116.121 ****
--- 116,124 ----
  (defvar emms-lyrics-mode-line-string ""
    "Current lyric.")
```

```
+ (defvar emms-lyrics-lyrics-buffer nil
    "Buffer to show lyrics, create/updated by emms-lyrics-start")
  ;;;###autoload
  (defun emms-lvrics-enable ()
    "Enable displaying emms lyrics."
*** 281,286 ****
--- 284,305 ----
                (sort emms-lyrics-alist (lambda (a b) (< (car a) (car b))))))
        t)))
 (defun emms-lyrics-create-buffer ()
    "Create a buffer dedicated to lyrics"
    ;; leading white space in buffer name to hide the buffer
    (setq emms-lyrics-lyrics-buffer (get-buffer-create " *Emms Lyrics*"))
    (set-buffer emms-lyrics-lyrics-buffer)
    (setg buffer-read-only nil
          cursor-type nil)
    (erase-buffer)
    (when (window-system) (hl-line-mode 1)) : hl-line-face for terminal too ugly
    (let* ((lyrics-alist emms-lyrics-alist))
      (while lyrics-alist
        (insert (cdar lyrics-alist) "\n")
        (setg lyrics-alist (cdr lyrics-alist))))
    (goto-char 1)
    (setq buffer-read-only t))
```

```
(defun emms-lyrics-start ()
    "Start displaying lryics."
    (setq emms-lyrics-start-time (current-time)
*** 295,300 ****
--- 314,320 ----
            (concat "\\." (file-name-extension file) "\\'")
              ".lrc"
              (file-name-nondirectory file))))
     (emms-lvrics-create-buffer)
      (emms-lyrics-set-timer)))
  (defun emms-lyrics-catchup (lrc)
 *********
*** 362,368 ****
  (defun emms-lvrics-set-timer ()
    "Set timers for displaying lyrics."
   (setq emms-lyrics-timers '())
  (let ((lvrics-alist emms-lvrics-alist))
     (while lyrics-alist
        (let ((time (- (caar lyrics-alist) emms-lyrics-elapsed-time))
              (lyric (cdar lyrics-alist))
--- 382,388 ----
  (defun emms-lyrics-set-timer ()
    "Set timers for displaying lyrics."
    (seta emms-lvrics-timers '())
   (let ((lyrics-alist emms-lyrics-alist) (line 0))
      (while lyrics-alist
        (let ((time (- (caar lyrics-alist) emms-lyrics-elapsed-time))
```

```
(lyric (cdar lyrics-alist))
*** 371.376 ****
--- 391,397 ----
                                 emms-lyrics-elapsed-time)))
              (next-lyric (and (cdr lyrics-alist)
                               (cdr (cadr lyrics-alist)))))
         (setq line (1+ line))
          (seta emms-lvrics-timers
                (append emms-lyrics-timers
                        (list
******
*** 379.384 ****
--- 400.406 ----
                                      'emms-lyrics-display-handler
                                      lvric
                                      next-lyric
                                      line
                                      (and next-time (- next-time time)))))))
       (setg lyrics-alist (cdr lyrics-alist)))))
******
*** 397.410 ****
       (remove 'emms-lyrics-mode-line-string global-mode-string))
   (force-mode-line-update))
! (defun emms-lyrics-display-handler (lyric next-lyric diff)
   "DIFF is the timestamp differences between current LYRIC and
 NEXT-LYBIC "
```

```
(emms-lyrics-display (format emms-lyrics-display-format lyric))
    (when emms-lyrics-scroll-p
      (emms-lvrics-scroll lvric next-lvric diff)))
! (defun emms-lyrics-display (lyric)
    "Display LYRIC now.
  See 'emms-lyrics-display-on-modeline' and
  'emms-lyrics-display-on-minibuffer' on how to config where to
--- 419,432 ----
        (remove 'emms-lyrics-mode-line-string global-mode-string))
    (force-mode-line-update))
! (defun emms-lyrics-display-handler (lyric next-lyric line diff)
    "DIFF is the timestamp differences between current LYRIC and
 NEXT-LYRIC."
    (emms-lyrics-display (format emms-lyrics-display-format lyric) line)
    (when emms-lyrics-scroll-p
      (emms-lyrics-scroll lyric next-lyric diff)))
! (defun emms-lyrics-display (lyric line)
    "Display LYRIC now.
 See 'emms-lyrics-display-on-modeline' and
  'emms-lyrics-display-on-minibuffer' on how to config where to
*** 421,427 ****
        (force-mode-line-update))
      (when emms-lyrics-display-on-minibuffer
        (unless (minibuffer-window-active-p (selected-window))
          (message lvric)))))
```

```
(defun emms-lyrics-find-lyric (file)
    "Return full path of found lrc FILE, or nil if not found.
--- 443,466 ----
        (force-mode-line-update))
      (when emms-lyrics-display-on-minibuffer
        (unless (minibuffer-window-active-p (selected-window))
          (message lyric)))
      :: update lyrics buffer
      (set-buffer emms-lyrics-lyrics-buffer)
      (goto-char 1)
      (forward-line (1- line))
                                         :goto-line push-mark to many
      (hl-line-highlight)
 ))
  (defun emms-lyrics-toggle-window ()
    "Show lyrics in a dedicated window"
    (interactive)
    (let ((window (get-buffer-window emms-lyrics-lyrics-buffer)))
     (if window
          (delete-window window)
        (pop-to-buffer emms-lyrics-lyrics-buffer)
        (set-window-dedicated-p
         (get-buffer-window emms-lyrics-lyrics-buffer) t) )))
  (defun emms-lyrics-find-lyric (file)
    "Return full path of found lrc FILE, or nil if not found.
```

#### 用了一阵子后又做了点改动:

```
*** /home/lgfang/tmp/emms/lisp/emms-lyrics.el 2011-10-05 17:03:23.000000000 +0800
--- /home/lgfang/.emacs.d/extensions/emms/emms-lyrics.el
                                                               2011-10-05
     17:28:36 000000000 +0800
 **********
*** 309,315 ****
    (setq emms-lyrics-buffer (get-buffer-create " *EMMS Lyrics*"))
    (set-buffer emms-lyrics-buffer)
    (setq buffer-read-only nil
          cursor-type nil)
    (erase-buffer)
    (mapc (lambda (time-lyric) (insert (cdr time-lyric) "\n"))
          emms-lyrics-alist)
--- 309,320 ----
    (setq emms-lyrics-buffer (get-buffer-create " *EMMS Lyrics*"))
    (set-buffer emms-lyrics-buffer)
    (setg buffer-read-only nil
          cursor-type nil
          mode-line-format '(global-mode-string
                             (#("--" 0 2
                                (help-echo "Buffer dedicated to EMMS lyrics"))
                              global-mode-string)))
    (erase-buffer)
    (mapc (lambda (time-lyric) (insert (cdr time-lyric) "\n"))
          emms-lyrics-alist)
*** 465.476 ****
```

```
(unless (minibuffer-window-active-p (selected-window))
          (message lvric)))
      (when emms-lyrics-display-buffer
        (with-current-buffer emms-lyrics-buffer
          (when line
            (goto-char (point-min))
            (forward-line (1- line))
            (hl-line-highlight)))))
  (defun emms-lyrics-find-lyric (file)
    "Return full path of found lrc FILE, or nil if not found.
--- 470.484 ----
        (unless (minibuffer-window-active-p (selected-window))
          (message lvric)))
      (let ((cur-win (selected-window))
            (lyric-win (get-buffer-window emms-lyrics-buffer)))
        (when (and line lyric-win)
          (select-window lyric-win)
          (goto-char (point-min))
          (forward-line (1- line))
          (hl-line-highlight)
          (recenter 2)
          (select-window cur-win)))))
  (defun emms-lyrics-find-lyric (file)
    "Return full path of found lrc FILE, or nil if not found.
```