

BList

Display bookmarks in an Ibuffer way.

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1 About

The built-in library `bookmark.el` is useful for storing information that can be retrieved later. But I find the built-in mechanism to display the list of bookmarks not so satisfactory, so I wrote this little package to display the list of bookmarks in an Ibuffer way.

2 Dependency

This package is driven by another package: `ilist` (<https://gitlab.com/mmemmew/ilist.git>). So make sure to install that before using this package. In fact, the package `ilist` was written as an abstraction of the mechanisms of this package.

3 Usage

After installing, one can call the function `blist-list-bookmarks` to display the list of bookmarks. Of course, one can bind a key to that function for easier invocations.

3.1 Screenshot

A picture says more about the package than a thousand words. Below is how the list of bookmarks looks like on my end:

```

A Name                                     Location
- ----                                     -
[ PDF ]
* computation                             ~/Desktop/Computation of L-series for elliptic curve
parse                                    ~/Desktop/Centre/A propos de programmes/C/parsers/Pa
tate nakayama thm                       ~/Desktop/Centre/Documents partout/Cohomologie cryst
adele                                   ~/Desktop/Centre/PDF/En train de lire/Adeles and alg
extreme c                               ~/Desktop/Centre/A propos de programmes/C/Extreme C
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intersection                             ~/Downloads/documents intéressants/AG/intersection t
complete intersection                   ~/Downloads/documents intéressants/AG/intersection t
algebraic cycles                        ~/Desktop/Centre/PDF/Des sujets/géométrie algébrique
hilbert                                 ~/Desktop/Centre/PDF/Pas encore lu/Elementary Intro
[ Eshell ]
(Eshell) tibetan                         ~/Desktop/Centre/Tibetan/
(Eshell) scripts                         ~/ffmpeg-scripts/
(Eshell) Musique                         /Users/durand/Desktop/Centre/Musique/Chansons/
(Eshell) ita                             /Users/durand/Desktop/Centre/Introduction to algebra
(Eshell) Haskell                         /Users/durand/Desktop/Centre/A propos de programmes/
(Eshell) emacs.d                         /Users/durand/.emacs.d/
(Eshell) C                               /Users/durand/Desktop/Centre/A propos de programmes/
(Eshell) Autres                         /Users/durand/Desktop/Centre/Autres/
* (Eshell) Desktop                       /Users/durand/Desktop/
(Eshell) Vidéos                          /Users/durand/Desktop/Centre/Vidéos/
[ ELisp ]
bconf                                   ~/.emacs.d/bookmark-conf.el
blist                                   ~/elisp_packages/blist/blist.el
[ Emacs ]
R *Bookmark List* 17:1 Top 5.9k
BList 14

```

3.2 Example configuration

An example configuration is included so that it is easier to begin configuring the package.

```

(setq blist-filter-groups
  (list
    (cons "Eshell" #'blist-eshell-p)
    (cons "ELisp" #'blist-elisp-p)
    (cons "PDF" #'blist-pdf-p)
    (cons "Info" #'blist-info-p)
    (cons "Default" #'blist-default-p)))

```

```
;; Eshell and Default are defined in the package by default

(blist-define-criterion "elisp" "ELisp"
  (string-match-p
   "\\..el$"
   (bookmark-get-filename bookmark)))

(blist-define-criterion "pdf" "PDF"
  (eq (bookmark-get-handler bookmark)
      #'pdf-view-bookmark-jump))

(blist-define-criterion "info" "Info"
  (eq (bookmark-get-handler bookmark)
      #'Info-bookmark-jump))
```

See the following subsections for more details.

3.3 Columns

As one can see, the display has two columns: a name column and a location column. The name column shows the names of the bookmarks, while the location column shows the *locations*, which are either the **filename** or the **location** attributes of the bookmarks.

The variable `blist-display-location-p` controls whether to display the locations or not. Also, one can toggle the display of the locations interactively by `blist-toggle-location`.

The variable `blist-maximal-name-len` determines the maximal length of the name column. And the variable `blist-elide-string` determines how to elide the name, when it gets too long.

If one feels like so, then one can play with the function `blist-name-column` to control the name column.

3.4 Groups

An important feature of this package is the *filter groups*. They are criteria that group bookmarks together under various sections. So one can find all bookmarks of, say, *Eshell buffers* in one section.

The groups are stored in the variable `blist-filter-groups`. One can add or remove filter groups to that variable. That variable is a list of filter groups, while each filter group is a cons cell of the form `(NAME . FUN)`, where `NAME` is a string which will be displayed as the section header, and `FUN` is a function that accepts a bookmark as its argument, and returns non-nil when and only when that bookmark belongs to the group.

Since defining the group functions might be tedious, the package also provides a convenient macro `blist-define-criterion` for the users to define filter groups easily. See the documentation string of that macro for details.

Also, the order of the filter groups matters: the filter groups that occur earlier on the list have higher priority. So if an item belongs to multiple groups, it will be classified under the group that is the earliest on the list.

In addition, the default filter group simply returns `t` for every bookmark. It is important to have the default group since items that belong to no groups will not be shown in the buffer. This design is intentional, so that other packages that use `ilist` can display the lists more flexibly.

3.5 Calling convention(s)

For the ease and brevity of writing, let's establish a convention for describing the interactive arguments of functions.

In this document, the phrase **XYZ-convention** should be understood as a specification of how the arguments to a function are supposed to be obtained when called interactively. Here the letters **XYZ** have special meanings:

<i>M</i>	Use marked bookmarks.
<i>R</i>	Use the bookmarks in the region, if the region is active.
<i>G</i>	Use the bookmarks of a group, if the point is at the heading of that group.
<i>O</i>	Use the 0-th bookmark, that is, the bookmark at point, if any.
<i>C</i>	Use use <code>completing-read</code> to let the user choose a bookmark.
<i>P</i>	Use the ARG next bookmarks, where ARG is the prefix argument.

3.6 Navigations

The following is a list of default key-bindings to navigate in the list of bookmarks. Except for the two *jump* commands, they all follow the **P-convention**.

<i>n</i>	
<i>p</i>	go to next/previous line. Whether it treats the top of the buffer as identified with the bottom of the buffer is controlled by the variable <code>blist-movement-cycle</code> .
<i>N</i>	
<i>P</i>	go to next/previous line that is not a group heading.
<i>M-n</i>	
<i>M-p</i>	go to next/previous group heading.
<i>j</i>	
<i>M-g</i>	jump to a bookmark, using the C-convention .
<i>J</i>	
<i>M-j</i>	
<i>M-G</i>	jump to a group heading, using the C-convention .
<i>M-{</i>	
<i>(</i>	go to the previous marked bookmark.
<i>)</i>	
<i>M-}</i>	go to the next marked bookmark.

3.7 Marking

The following is a list of default key-bindings to mark bookmarks and to operate on the bookmarks.

Unless stated otherwise, they all follow the **P-convention**.

<i>m</i>	Mark the bookmark with the default mark (<code>blis^t-default-mark</code>) and advance.
<i>d</i>	
<i>k</i>	Mark for deletion and advance.
<i>C-d</i>	Mark for deletion and go backwards.
<i>x</i>	Delete all bookmarks that are marked for deletion.
<i>D</i>	Delete the bookmark immediately (the MRG0-convention).
<i>u</i>	Unmark the bookmark and advance.
<i>DEL</i>	Unmark the bookmark and go backwards.
<i>U</i>	Unmark all bookmarks.
<i>M-DEL</i>	
<i>* *</i>	prompt for a mark and unmark all bookmarks that are marked with the entered mark (using <code>read-char</code>).
<i>% n</i>	Mark bookmarks whose name matches a regular expression.
<i>% l</i>	Mark bookmarks whose location matches a regular expression.
<i>* c</i>	Change the marks from OLD to NEW (using <code>read-char</code>)

3.8 Jump to bookmarks

The following lists the default key-bindings for jumping to, or opening bookmarks. Except for *v*, they operate on the bookmark (or group) at point.

<i>RET</i>	Either open the bookmark in this window or toggle the group at point.
<i>o</i>	Open the bookmark in another window.
<i>v</i>	Select the bookmarks (the MG0-convention). How multiple bookmarks are opened is controlled by the variable <code>blis^t-select-manner</code> . See its documentation for details.

3.9 Annotations

The following lists the default key-bindings for operating on the annotations of bookmarks.

<i>a</i>	View the annotations of bookmarks (the MGC-convention).
<i>A</i>	View the annotations of all bookmarks.
<i>e</i>	Edit the annotation of the bookmark at point. If called with <code>universal-argument</code> , prompt for the bookmark to edit with completion.

3.10 Others

Some functions are too minor to record here. Use `describe-mode` in the list of bookmarks to see all available key-bindings.

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Version 1.3, 3 November 2008

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