



**muCommander**

**Project:**  
**Breadcrumb bar  
for  
muCommander**

author: Tomáš Tunys

contact: [tunystom@fel.cvut.cz](mailto:tunystom@fel.cvut.cz)



## muCommander (reminder)

*"I have found Jesus. He came to me in the form of muCommander.,,  
-- a happy user*

- ✓ **lightweight, cross-platform file manager featuring a Norton Commander style interface (dual-pane)**
- ✓ **runs on any system with Java support (Mac OS X, Windows, Linux, \*BSD, Solaris, ...)**
- ✓ **free software (GPL)**



# muCommander (preview)

The screenshot displays the muCommander file manager interface. The main window shows a file list for the directory `/Users/nrinaudo/Pictures/Holidays/`. The list includes several JPEG files (DSCF0340.jpg to DSCF0345.jpg) and a directory listing. A sidebar on the left shows the file system tree, with `Downloads` selected. An `Edit credentials` dialog box is open in the foreground, showing a list of protocols: `ftp://ftp.lip6.fr/`, `sftp://192.168.0.5/`, `smb://TechDoc/`, and `http://dev-wiki/`. The `Login` field is set to `anonymous` and the `Password` field is masked with asterisks. The dialog has `Delete` and `Close` buttons.

Ex...	Name	Size	Date	Perm...
<DIR>	..		07/03/14 12:09	
<DIR>	.ant		06/04/23 01:34	drw-
<DIR>	.cpan		05/06/08 18:18	drw-
<DIR>	.emacs.d		04/10/06 20:57	drw-
<DIR>	.jprofiler4		07/01/23 12:40	drw-
<DIR>	.mucommander		07/02/22 21:44	drw-
<DIR>	.ssh		07/01/23 17:17	drw-
<DIR>	.Trash			
<DIR>	.xchat2			
<DIR>	Desktop			
<DIR>	dev			
<DIR>	Documents			
<DIR>	Downloads			
<DIR>	Incomplete			
<DIR>	Library			
<DIR>	Movies			
<DIR>	Music			
<DIR>	Pictures			
<DIR>	Public			
<DIR>	Sites			
<FILE>	.bash_history	6.0 KB	07/02/27 13:36	-rw-
<FILE>	.bash_profile	4.4 KB	07/01/08 12:51	-rw-
<FILE>	.CFUserTextEncoding	41 KB	05/09/11 21:59	-rw-
<FILE>	.cvspass	2.3 KB	05/10/06 19:21	-rw-
<FILE>	.DS_Store	1 KB	06/06/10 10:11	-rw-
<FILE>	.emacs	1 KB	05/08/29 11:57	-rw-
<FILE>	.fonts.cache-1	1.3 KB	06/04/25 07:25	-rw-
<FILE>	.recently-used	0 KB	05/10/06 19:36	-rw-
<FILE>	.starteam			
<FILE>	.sversionrc			
<FILE>	.viminfo			
<FILE>	.Xauthority			

1 of 31 selected - Downloads

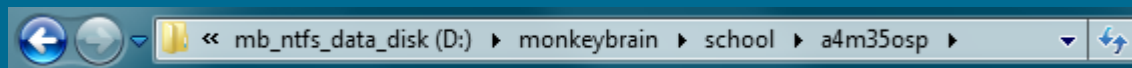
Free: 31 GB / 74 GB

View [F3] Edit [F4] Copy [F5] Move [F6] Make dir [F7] Delete [F8] Refresh [F9] Close window [F..]

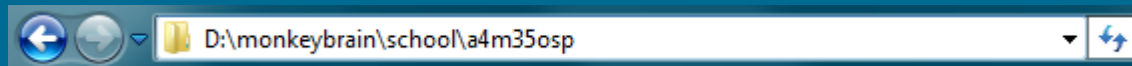


## muCommander (breadcrumb bar)

- ✓ the goal of my assignment was to implement a (location-based) breadcrumb bar, which is going to replace the existing (plane) location text field



- ✓ one of objectives is to keep the former functionality of the location text field (basically, the bar has to be editable)



-- snapshots of a location-based breadcrumb bar in Windows 7



## muCommander (what has been done)

- ✓ **Selfstanding, reliable and reusable BreadcrumbBar component, implemented in standard Java MVC architecture (model-delegate).**
- ✓ **Use the implemented BreadcrumbBar to create a location bar that would meet the team expectations.**
- ✓ **Study muCommander APIs mainly connected with file processing.**
- ✓ **Results: 6 components coded in 4800 LOCs (33% comments).**

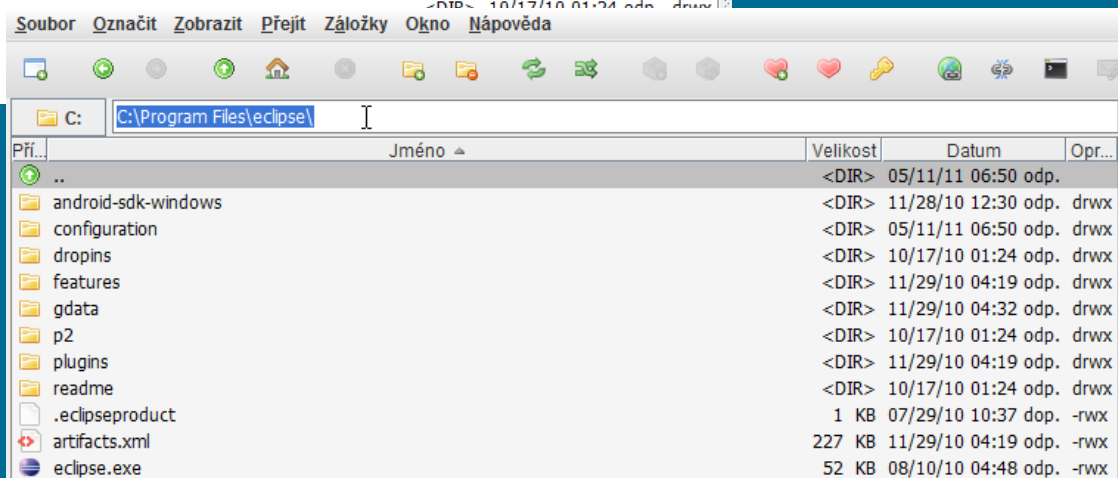
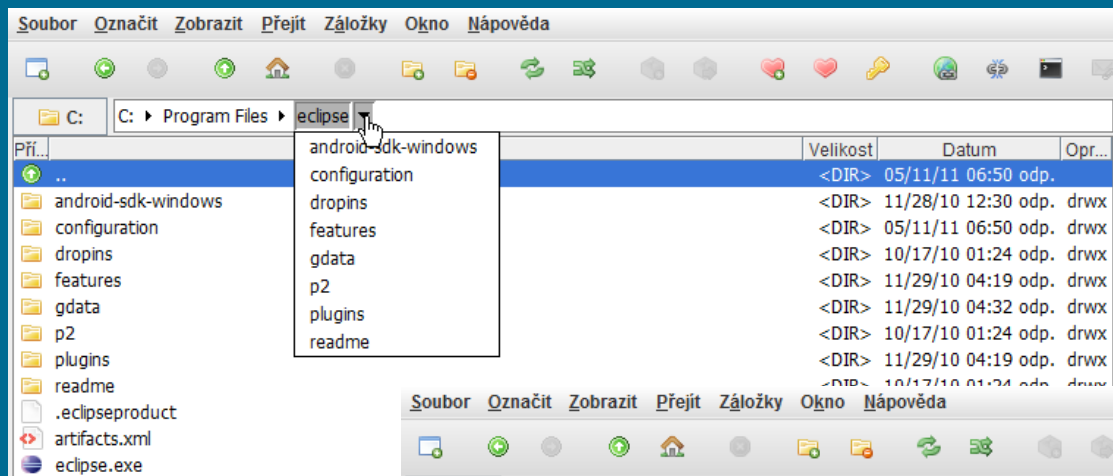


## muCommander (project review)

- ✓ My breadcrumb bar implementation has been successful and it has been accepted by Maxence (head developer).
- ✓ Testing of the integration of the location breadcrumb bar into the muCommander has been done by Maxence himself, who keeps feeding me with a new and improving suggestions (and this process hasn't stopped...)
- ✓ Now the LocationBreadcrumbBar Component is making its way to the next release of muCommander.
- ✓ Next comes a small preview of my work...



# muCommander (breadcrumb location bar)





## muCommander (team cooperation)

- ✓ **The most of the communication was done through emails**
  - ✓ I basically communicated only with Maxence, who led the way the breadcrumb bar should follow.
  - ✓ Bulk mails may have been sent to `mucommander-dev@googlegroups.com` which I did not use, cause all of the information I needed it I got from Maxence.
- ✓ **There is an IRC channel `irc://irc.freenode.net/mucommander` that is used to exchange hints and share knowledge with whoever is currently connected, and there is almost always someone (not counting the bot called ChainChomp)**





## muCommander (team cooperation)

- ✓ I have no idea what bad to point out about the project. Frankly, everything went great for me.
- ✓ It's been absolutely great to participate on such a complex application in such a way that always, when someone opens (a new version of) muCommander, there will be my piece of work improving the user's experience.



## muCommander (sources)

**Thank you for your attention!**

✓ **muCommander's homepage**

<http://www.mucommander.com/>

✓ **developer's quickstart guide**

<http://www.mucommander.com/wiki/QuickStartGuide>

✓ **muCommander's FAQ**

<http://www.mucommander.com/wiki/FAQ>