

RESEARCH TOOLS 2011

VIDEO 2

2011-Sep-25

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<http://schwehr.org>

UNH CCOM/JHC

More advanced emacs



Research Tools 2011
Video 2

More Advanced Emacs

by Kurt Schwehr



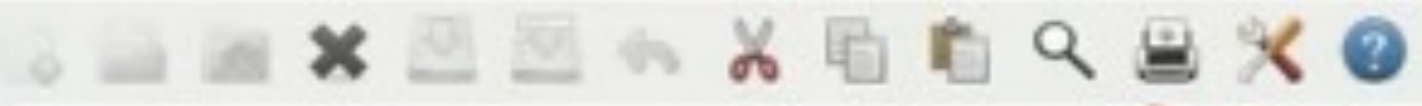
Welcome to [GNU Emacs](#), one component of the [GNU/Linux](#) operating system.

- [Emacs Tutorial](#) Learn basic keystroke commands
- [Emacs Guided Tour](#) Overview of Emacs features at gnu.org
- [View Emacs Manual](#) View the Emacs manual using Info
- [Absence of Warranty](#) GNU Emacs comes with **ABSOLUTELY NO WARRANTY**
- [Copying Conditions](#) Conditions for redistributing and changing Emacs
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To start... [Open a File](#) [Open Home Directory](#) [Customize Startup](#)
To quit a partially entered command, type Control-g.

This is GNU Emacs 23.2.1 (i686-pc-linux-gnu, GTK+ Version 2.24.4)
of 2011-04-04 on rothera, modified by Debian

-U:%%- *GNU Emacs* All L5 (Fundamental)-----
For information about GNU Emacs and the GNU system, type C-h C-a.



C-x C-f
Open a file or directory

Select a directory to enter
dired mode



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/home/researchtools:

total used in directory 480 available 11724444

drwxr-xr-x	37	researchtools	researchtools	4096	2011-09-24	21:38	.
drwxr-xr-x	4	root	root	4096	2011-09-01	19:33	..
-rw-r--r--	1	researchtools	researchtools	16343	2011-09-22	12:33	8-more-emacs-and-script-files.org
-rw-r--r--	1	researchtools	researchtools	16343	2011-09-22	11:14	8-more-emacs-and-script-files.org-
-rw-----	1	researchtools	researchtools	14258	2011-09-24	21:39	.bash_history
-rw-r--r--	1	researchtools	researchtools	220	2011-09-01	19:33	.bash_logout
-rw-r--r--	1	researchtools	researchtools	3353	2011-09-01	19:33	.bashrc
drwxr-xr-x	12	researchtools	researchtools	4096	2011-09-24	18:49	.cache
drwxr-xr-x	3	researchtools	researchtools	4096	2011-09-22	11:49	class
drwxr-xr-x	14	researchtools	researchtools	4096	2011-09-24	18:48	.config
drwx-----	3	researchtools	researchtools	4096	2011-09-13	11:23	.dbus
drwxr-xr-x	2	researchtools	researchtools	4096	2011-09-13	11:23	Desktop
-rw-r--r--	1	researchtools	researchtools	63	2011-09-24	13:33	.dmrc
drwxr-xr-x	2	researchtools	researchtools	4096	2011-09-13	11:23	Documents
drwxr-xr-x	2	researchtools	researchtools	4096	2011-09-13	11:23	Downloads
drwx-----	3	researchtools	researchtools	4096	2011-09-24	13:33	.dropbox
drwx-----	14	researchtools	researchtools	4096	2011-09-24	13:33	Dropbox
drwxr-xr-x	5	researchtools	researchtools	4096	2011-09-15	12:09	.dropbox-dist
-rw-r--r--	1	researchtools	researchtools	296	2011-09-24	21:13	.emacs
-rw-r--r--	1	researchtools	researchtools	301	2011-09-24	20:57	.emacs-
drwxr-xr-x	3	researchtools	researchtools	4096	2011-09-13	12:29	.emacs.d
-rw-r--r--	1	researchtools	researchtools	116497	2011-07-31	02:56	emacs-refcard.pdf
-rw-----	1	researchtools	researchtools	16	2011-09-13	11:23	.esd_auth
-rw-r--r--	1	researchtools	researchtools	179	2011-09-01	19:33	examples.desktop
drwxr-xr-x	2	researchtools	researchtools	4096	2011-09-22	10:40	.fontconfig
drwx-----	4	researchtools	researchtools	4096	2011-09-24	13:33	.gconf

d
Mark a file for deletion

```

/home/researchtools:
total used in directory 480
drwxr-xr-x 37 researchtools
drwxr-xr-x  4 root
-rw-r--r--  1 researchtools
D -rw-r--r--  1 researchtools
-rw-----  1 researchtools
-rw-r--r--  1 researchtools
-rw-r--r--  1 researchtools
drwxr-xr-x 12 researchtools
drwxr-xr-x  3 researchtools
drwxr-xr-x 14 researchtools
drwx-----  3 researchtools
drwxr-xr-x  2 researchtools
-rw-r--r--  1 researchtools
drwxr-xr-x  2 researchtools
drwxr-xr-x  2 researchtools
drwx-----  3 researchtools
drwx----- 14 researchtools
drwxr-xr-x  5 researchtools
-rw-r--r--  1 researchtools
D -rw-r--r--  1 researchtools
drwxr-xr-x  3 researchtools
-rw-r--r--  1 researchtools
-rw-----  1 researchtools
-rw-r--r--  1 researchtools
drwxr-xr-x  2 researchtools
drwx-----  4 researchtools

```

- Copy to...
- Rename to...
- Delete
- Shell Command...
- Asynchronous Shell Command...
- Symlink to...
- Hardlink to...
- Print...
- Compress
- Byte-compile
- Load
- Change Timestamp...
- Change Mode...
- Change Group...
- Change Owner...
- Isearch Files...
- Isearch Regexp Files...
- Search Files...
- Query Replace in Files...
- Encrypt
- Sign
- Verify
- Decrypt

C	
R	
D	:38 .
l	:33 ..
&	:33 8-more-emacs-and-script-files.org
S	:14 8-more-emacs-and-script-files.org-
S	:39 .bash_history
H	:33 .bash_logout
p	:33 .bashrc
Z	:49 .cache
Z	:49 class
B	:48 .config
L	:23 .dbus
L	:23 Desktop
T	:33 .dmrc
M	:23 Documents
G	:23 Downloads
G	:33 .dropbox
O	:33 Dropbox
M-s a C-s	:09 .dropbox-dist
M-s a C-M-s	:13 .emacs
A	:57 .emacs-
A	:29 .emacs.d
Q	:56 emacs-refcard.pdf
Q	:23 .esd_auth
e	:33 examples.desktop
s	:40 .fontconfig
s	:33 .gconf
v	
d	

X
Delete files that have been marked for deletion

emacs23@ubuntu

File Edit Options Buffers Tools Operate Mark Regexp Immediate Subdir Help

/home/researchtools:

```
total used in directory 480 available 11724444
drwxr-xr-x 37 researchtools researchtools 4096 2011-09-22 10:39 .
drwxr-xr-x 4 root root 4096 2011-09-22 10:39 ..
-rw-r--r-- 1 researchtools researchtools 16343 2011-09-22 10:39 .Xresources
-rw----- 1 researchtools researchtools 14258 2011-09-22 10:39 .Xresources.defaults
-rw-r--r-- 1 researchtools researchtools 220 2011-09-22 10:39 .Xresources.defaults.defaults
-rw-r--r-- 1 researchtools researchtools 3353 2011-09-22 10:39 .Xresources.defaults.defaults.defaults
drwxr-xr-x 12 researchtools researchtools 4096 2011-09-22 10:39 .emacs.d
drwxr-xr-x 3 researchtools researchtools 4096 2011-09-22 10:39 .emacs.d
drwxr-xr-x 14 researchtools researchtools 4096 2011-09-22 10:39 .emacs.d
drwx----- 3 researchtools researchtools 4096 2011-09-22 10:39 .emacs.d
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-22 10:39 .emacs.d
-rw-r--r-- 1 researchtools researchtools 63 2011-09-22 10:39 .emacs.d
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-22 10:39 .emacs.d
drwx----- 3 researchtools researchtools 4096 2011-09-22 10:39 .emacs.d
drwx----- 14 researchtools researchtools 4096 2011-09-22 10:39 .emacs.d
drwxr-xr-x 5 researchtools researchtools 4096 2011-09-15 12:09 .dropbox-dist
-rw-r--r-- 1 researchtools researchtools 296 2011-09-24 21:13 .emacs
drwxr-xr-x 3 researchtools researchtools 4096 2011-09-13 12:29 .emacs.d
-rw-r--r-- 1 researchtools researchtools 116497 2011-07-31 02:56 emacs-refcard.pdf
-rw----- 1 researchtools researchtools 16 2011-09-13 11:23 .esd_auth
-rw-r--r-- 1 researchtools researchtools 179 2011-09-01 19:33 examples.desktop
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-22 10:40 .fontconfig
drwx----- 4 researchtools researchtools 4096 2011-09-24 13:33 .gconf
drwx----- 2 researchtools researchtools 4096 2011-09-24 21:39 .gconfd
-rw-r----- 1 researchtools researchtools 0 2011-09-22 10:39 .gksu.lock
```

U:* - ~ Top L21 (Dired by name) -----

2 deletions done

Edit File Names C-x C-q
 Create Directory... +
 Find This File RET
 Find This File in Other Window o
 Display in Other Window C-o
 View This File v
 Diff... =
 Compare with Backup M-
 Compare Directories...
 Issearch in File Names... M-s f C-s
 Issearch Regexp in File Names... M-s f C-M-s
 Refresh g
 Display Image C-t i
 Display Image Externally C-t x

les.org

+ Create a subdirectory



/home/researchtools:

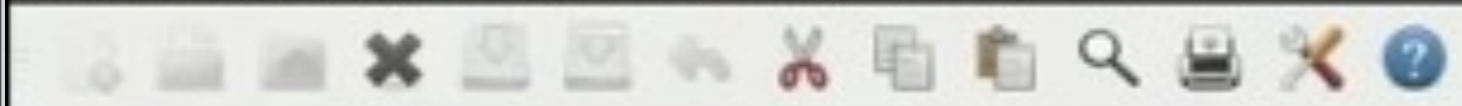
total used in directory 480 available 11724444

```

drwxr-xr-x 37 researchtools researchtools 4096 2011-09-24 21:38 .
drwxr-xr-x 4 root root 4096 2011-09-01 19:33 ..
-rw-r--r-- 1 researchtools researchtools 16343 2011-09-22 12:33 8-more-emacs-and-script-files.org
-rw----- 1 researchtools researchtools 14258 2011-09-24 21:39 .bash_history
-rw-r--r-- 1 researchtools researchtools 220 2011-09-01 19:33 .bash_logout
-rw-r--r-- 1 researchtools researchtools 3353 2011-09-01 19:33 .bashrc
drwxr-xr-x 12 researchtools researchtools 4096 2011-09-24 18:49 .cache
drwxr-xr-x 3 researchtools researchtools 4096 2011-09-22 11:49 class
drwxr-xr-x 14 researchtools researchtools 4096 2011-09-24 18:48 .config
drwx----- 3 researchtools researchtools 4096 2011-09-13 11:23 .dbus
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-13 11:23 Desktop
-rw-r--r-- 1 researchtools researchtools 63 2011-09-24 13:33 .dmrc
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-13 11:23 Documents
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-13 11:23 Downloads
drwx----- 3 researchtools researchtools 4096 2011-09-24 13:33 .dropbox
drwx----- 14 researchtools researchtools 4096 2011-09-24 13:33 Dropbox
drwxr-xr-x 5 researchtools researchtools 4096 2011-09-15 12:09 .dropbox-dist
-rw-r--r-- 1 researchtools researchtools 296 2011-09-24 21:13 .emacs
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-24 21:45 tutorial-2
drwxr-xr-x 3 researchtools researchtools 4096 2011-09-13 12:29 .emacs.d
-rw-r--r-- 1 researchtools researchtools 116497 2011-07-31 02:56 emacs-refcard.pdf
-rw----- 1 researchtools researchtools 16 2011-09-13 11:23 .esd_auth
-rw-r--r-- 1 researchtools researchtools 179 2011-09-01 19:33 examples.desktop
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-22 10:40 .fontconfig
drwx----- 4 researchtools researchtools 4096 2011-09-24 13:33 .gconf
drwx----- 2 researchtools researchtools 4096 2011-09-24 21:39 .gconfd

```

<ENTER>
Open a file or go into a directory



```
/home/researchtools/tutorial-2:  
total used in directory 8 available 11724452  
drwxr-xr-x  2 researchtools researchtools 4096 2011-09-24 21:45 .  
drwxr-xr-x 38 researchtools researchtools 4096 2011-09-24 21:45 ..  
█
```

M-x shell
Open a terminal

-U:%%- tutorial-2 All L5 (Dired by name)-----

```
/home/researchtools/tutorial-2:  
total used in directory 8 available 11724452  
drwxr-xr-x  2 researchtools researchtools 4096 2011-09-24 21:45 .  
drwxr-xr-x 38 researchtools researchtools 4096 2011-09-24 21:45 ..  
█
```

-U:%%- tutorial-2 All L5 (Dired by name)-----

```
C-x 2 <--- split  
C-x b <--- switch to a different buffer in a window  
C-x o <--- jump to other buffer  
█
```

-U:--- tutorial.txt All L4 (Text yas)-----

M-x



```
researchtools@ubuntu:~/tutorial-2$ ls
tutorial.txt tutorial.txt-
researchtools@ubuntu:~/tutorial-2$ ls -la
total 16
drwxr-xr-x  2 researchtools researchtools 4096 2011-09-24 21:47 .
drwxr-xr-x 38 researchtools researchtools 4096 2011-09-24 21:45 ..
-rw-r--r--  1 researchtools researchtools  143 2011-09-24 21:47 tutorial.txt
-rw-r--r--  1 researchtools researchtools  101 2011-09-24 21:46 tutorial.txt-
researchtools@ubuntu:~/tutorial-2$
```

-U:**- *shell* All L8 (Shell:run)-----

```
/home/researchtools/tutorial-2:
total used in directory 8 available 11724452
drwxr-xr-x  2 researchtools researchtools 4096 2011-09-24 21:45 .
drwxr-xr-x 38 researchtools researchtools 4096 2011-09-24 21:45 ..
```

-U:%%- tutorial-2 All L5 (Dired by name)-----

```
C-x 2 <--- split
C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line
█
```

-U:--- tutorial.txt All L5 (Text yas)-----

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help

drwxr-xr-x 2 researchtools researchtools 4096
 drwxr-xr-x 38 researchtools researchtools 4096
 -rw-r--r-- 1 researchtools researchtools 143
 -rw-r--r-- 1 researchtools researchtools 101
 researchtools@ubuntu:~/tutorial-2\$ pwd
 /home/researchtools/tutorial-2
 researchtools@ubuntu:~/tutorial-2\$ less tutorial.txt
 WARNING: terminal is not fully functional
 tutorial.txt (press RETURN)

-U:*** *shell* Bot L13 (Shell:run)-----

```

/home/researchtools/tutorial-2:
total used in directory 16 available 11724440
drwxr-xr-x  2 researchtools researchtools 4096 2011-09-24 21:47 .
drwxr-xr-x 38 researchtools researchtools 4096 2011-09-24 21:45 ..
-rw-r--r--  1 researchtools researchtools  143 2011-09-24 21:47 tutorial.txt
-rw-r--r--  1 researchtools researchtools  101 2011-09-24 21:46 tutorial.txt~

```

-U:%%- tutorial-2 All L5 (Dired by name)-----

```

C-x 2 <--- split
C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line

```

-U:--- tutorial.txt All L5 (Text yas)-----

BREAK	C-c C-c
STOP	C-c C-z
CONT	
QUIT	C-c C-\
KILL	
EOF	C-c C-d



```
C-x 2 <--- split  
C-x b <--- switch to a different buffer in a window  
C-x o <--- jump to other buffer  
M-x shell <--- start a bash command line
```

C-x 1
Hide all other buffers

emacs23@ubuntu

File Edit Options Buffers Tools Minibuf Help

✕ 🔍 🖨️ 🛠️ ?

```
-x 2 <--- split
C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line
```

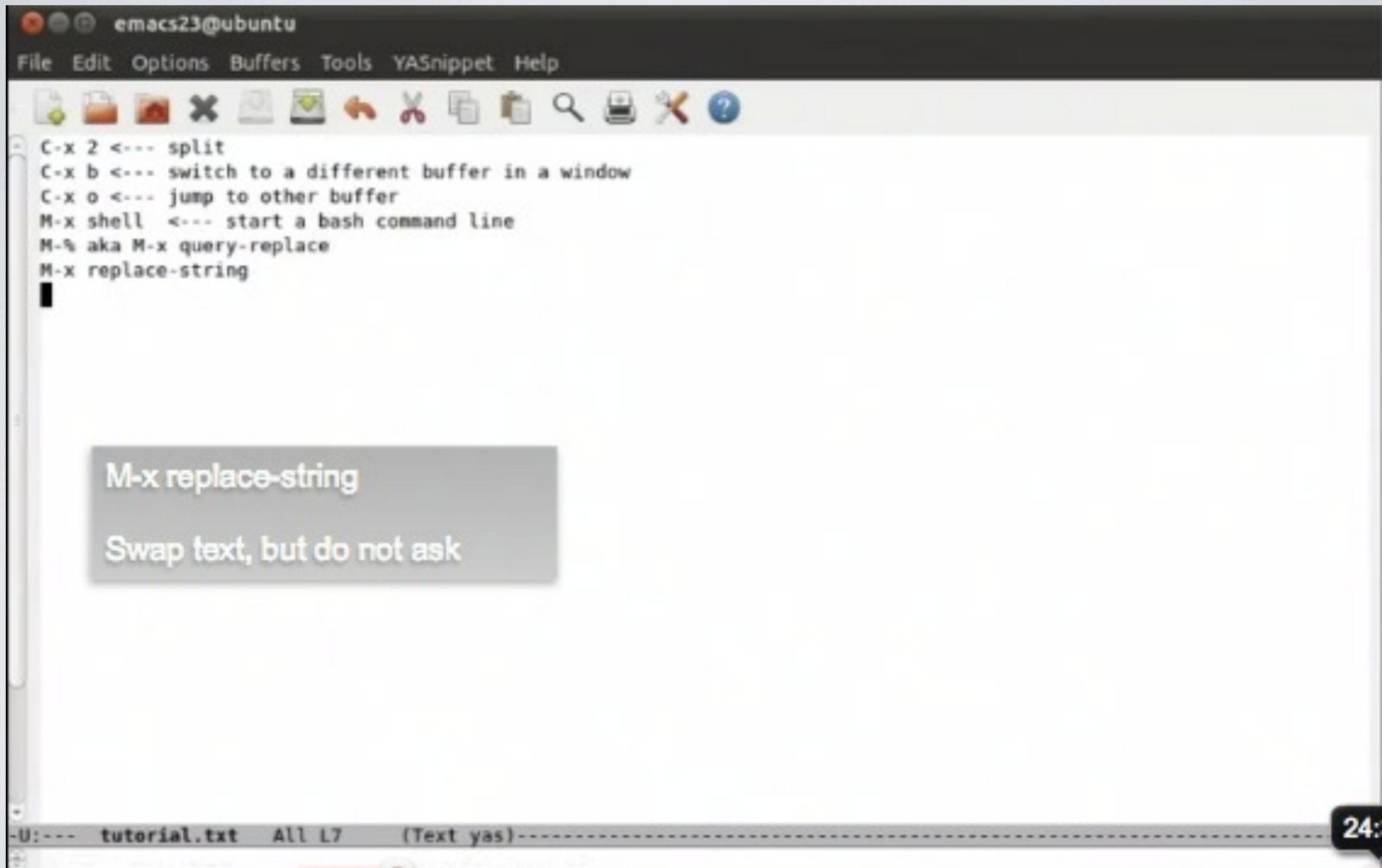
M-x query-replace

Yes/no replace text from the point until the end of the file

-U:--- tutorial.txt All L1 (Text yas)-----

Query replace:

24:2





```
C-x 2 <--- split  
C-x b <--- switch to a different buffer in a window  
C-x o <--- jump to other buffer  
M-x shell <--- start a bash command line  
M-% aka M-x query-replace  
M-x replace-string  
M-u -> upper case  
M-l -> lower case  
M-c -> capitalize
```

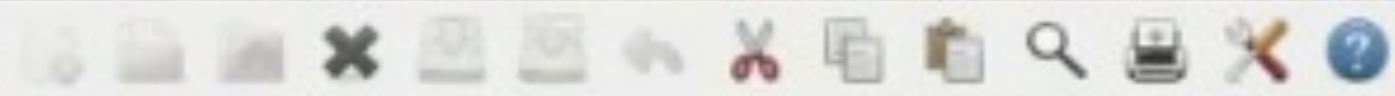
M-\$

Spell check word

```
emacs23@ubuntu
File Edit Options Buffers Tools YASnippet Help
C-x 2 <--- split
C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line
M-% aka M-x query-replace
M-x replace-string
M-u -> upper case
M-l -> lower case
M-c -> capitalize
C-space to start marking

M-x ispell-region
M-x ispell-buffer

-U:**- tutorial.txt All L10 (Text yas)-----
Spell-checking tutorial.txt using aspell with default dictionary...done
```



M-l -> lower case
 M-c -> capitalize
 C-space to start marking
 M-x ispell-region <--- check a small region
 M-x ispell-buffer <--- check all of the buffer

sudo apt-get install erc

-U:**- tutorial.txt Bot L14 (Text yas)-----

click <mouse-2> on a completion to select it.
 In this buffer, type RET to select the completion near point.

Possible completions are:

Completions	*GNU Emacs*	*Messages*
scratch	*shell*	tutorial-2
~		

-U:%%- *Completions* All L1 (Completion List)-----

Switch to buffer (default *shell*):



```

- C-x 2 <--- split
C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line
tutorial.txt (END) <menu-bar> <signals> <kill>Killed
researchtools@ubuntu:~/tutorial-2$ sudo apt-get install erc
[sudo] password for researchtools:
Reading package lists... Done
Building dependency tree
Reading state information... Done
erc is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
- researchtools@ubuntu:~/tutorial-2$

```

-U: ** *shell* Bot L25 (Shell:run)-----

```

- C-x 2 <--- split
C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line
M-% aka M-x query-replace
M-x replace-string
M-u -> upper case
M-l -> lower case
M-c -> capitalize
C-space to start marking
M-x ispell-region <--- check a small region
M-x ispell-buffer <--- check all of the buffer

- sudo apt-get install erc

```

-U: ** tutorial.txt All L14 (Text yas)-----

```
emacs23@ubuntu
File Edit Options Buffers Tools Minibuf Help
C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line
tutorial.txt (END) <menu-bar> <signals> <kill>Killed
researchtools@ubuntu:~/tutorial-2$ sudo apt-get install erc
[sudo] password for researchtools:
Reading package lists... Done
Building dependency tree
Reading state information... Done
erc is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
researchtools@ubuntu:~/tutorial-2$
researchtools@ubuntu:~/tutorial-2$
-U:*. *shell* Bot L26 (Shell:run)-----
M-l -> lower case
M-c -> capitalize
C-space to start marking
M-x ispell-region <--- check a small region
M-x ispell-buffer <--- check all of the buffer

sudo apt-get install erc

M-x erc <--- start irc inside of emacs
-U:--- tutorial.txt Bot L16 (Text yas)-----
M-x erc
```

M-x erc
Start ERC Internet Relay Chat client software

```
emacs23@ubuntu
File Edit Options Buffers Tools Minibuf Help
- C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line
tutorial.txt (END) <menu-bar> <signals> <kill>Killed
researchtools@ubuntu:~/tutorial-2$ sudo apt-get install erc
[sudo] password for researchtools:
Reading package lists... Done
Building dependency tree
Reading state information... Done
erc is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
researchtools@ubuntu:~/tutorial-2$
- researchtools@ubuntu:~/tutorial-2$
-U: ** - *shell* Bot L26 (Shell:run)-----
- M-l -> lower case
M-c -> capitalize
C-space to start marking
M-x ispell-region <--- check a small region
M-x ispell-buffer <--- check all of the buffer

sudo apt-get install erc

M-x erc <--- start irc inside of emacs
- U: --- tutorial.txt Bot L16 (Text yas)-----
IRC server: irc.freenode.net
```

M-x erc
Start ERC Internet Relay Chat client software

```
emacs23@ubuntu
File Edit Options Buffers Tools Minibuf Help
- C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line
tutorial.txt (END) <menu-bar> <signals> <kill>Killed
researchtools@ubuntu:~/tutorial-2$ sudo apt-get install erc
[sudo] password for researchtools:
Reading package lists... Done
Building dependency tree
Reading state information... Done
erc is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
researchtools@ubuntu:~/tutorial-2$
-U: ** *shell* Bot L26 (Shell:run)-----
- M-l -> lower case
M-c -> capitalize
C-space to start marking
M-x ispell-region <--- check a small region
M-x ispell-buffer <--- check all of the buffer

sudo apt-get install erc

M-x erc <--- start irc inside of emacs
-U: --- tutorial.txt Bot L16 (Text yas)-----
IRC server: researchtools.ccom.nh
```

researchtools.ccom.nh
An internal IRC server at CCOM

```
emacs23@ubuntu
File Edit Options Buffers Tools Minibuf Help
- C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line
tutorial.txt (END) <menu-bar> <signals> <kill>Killed
researchtools@ubuntu:~/tutorial-2$ sudo apt-get install erc
[sudo] password for researchtools:
Reading package lists... Done
Building dependency tree
Reading state information... Done
erc is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
researchtools@ubuntu:~/tutorial-2$
researchtools@ubuntu:~/tutorial-2$
-U: ** - *shell* Bot L26 (Shell:run)-----
- M-l -> lower case
M-c -> capitalize
C-space to start marking
M-x ispell-region <--- check a small region
M-x ispell-buffer <--- check all of the buffer

sudo apt-get install erc

M-x erc <--- start irc inside of emacs
-U: --- tutorial.txt Bot L16 (Text yas)-----
IRC port: 6667
```

researchtools.ccom.nh
An internal IRC server at CCOM

6667
The IRC port number

```

- C-x b <--- switch to a different buffer in a window
C-x o <--- jump to other buffer
M-x shell <--- start a bash command line
tutorial.txt (END) <menu-bar> <signals> <kill>Killed
researchtools@ubuntu:~/tutorial-2$ sudo apt-get install erc
[sudo] password for researchtools:
Reading package lists... Done
Building dependency tree
Reading state information... Done
erc is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
researchtools@ubuntu:~/tutorial-2$
- researchtools@ubuntu:~/tutorial-2$

```

-U: *- *shell* Bot L26 (Shell:run)-----

```

- M-l -> lower case
M-c -> capitalize
C-space to start marking
M-x ispell-region <--- check a small region
M-x ispell-buffer <--- check all of the buffer

sudo apt-get install erc

M-x erc <--- start irc inside of emacs

```

Make sure to change the Nickname to something other than "researchtools"

A good choice is to match your normal login name

-U: --- tutorial.txt Bot L16 (Text yas)-----

```
Nickname: kurt
```

```
emacs23@ubuntu
File Edit Options Buffers Tools ERC Help
kurt on irc.debian.org:6667 (+,)
*** - *****
*** - *           H   E   L   L   O           *
*** - *   Welcome on our new IRC server, running on: *
*** - *   Debian GNU/Linux (www.debian.org)         *
*** - *****
*** End of MOTD command
ERC>
-U:**- Unknown Bot L25 (ERC)-----
- M-l -> lower case
M-c -> capitalize
C-space to start marking
M-x ispell-region <--- check a small region
M-x ispell-buffer <--- check all of the buffer

sudo apt-get install erc

M-x erc <--- start irc inside of emacs[]
-U:--- tutorial.txt Bot L16 (Text yas)-----
Logging in as 'kurt'... done
```

Press <ENTER> for the password.

Many IRC servers do not require that you have a password for your nickname

emacs23@ubuntu

File Edit Options Buffers Tools ERC Help

kurt on #unhresearchtools (+,lag:0)

[Sat Sep 24 2011] [21:57]
*** You have joined channel #unhresearchtools
*** Users on #unhresearchtools: kurt @goatbar
*** #unhresearchtools modes: +
ERC>

-U:**- #unhresearchtools@Unknown All LB (ERC)-----

- M-l -> lower case
M-c -> capitalize
C-space to start marking
M-x ispell-region <--- check a small region
M-x ispell-buffer <--- check all of the buffer

sudo apt-get install erc

M-x erc <--- start irc inside of emacs

59 tutorial.txt Bot l16 (Text yas)-----

`/join #unhresearchtools`
Connect up to a chat channel

emacs23@ubuntu

File Edit Options Buffers Tools Sh-Script Help



```
#!/bin/bash  
  
# comment  
  
echo "Hello World"  
  
█
```

C-x C-s
Save the file

-U:--- sample.sh All L7 (Shell-script[sh])-----

```
- M-l -> lower case  
M-c -> capitalize  
C-space to start marking  
M-x ispell-region <--- check a small region  
M-x ispell-buffer <--- check all of the buffer  
  
sudo apt-get install erc  
  
M-x erc <--- start irc inside of emacs█
```

-U:--- tutorial.txt Bot L16 (Text yas)-----

(No changes need to be saved)



```
#!/bin/bash  
  
# comment  
  
echo "Hello World"
```

-U:--- sample.sh All L7 (Shell-script[sh])-----

```
researchtools@ubuntu:~/tutorial-2$ ls -l  
total 8  
-rw-r--r-- 1 researchtools researchtools 425 2011-09-24 21:55 tutorial.txt  
-rw-r--r-- 1 researchtools researchtools 101 2011-09-24 21:46 tutorial.txt-  
researchtools@ubuntu:~/tutorial-2$ ls -l  
total 16  
-rw-r--r-- 1 researchtools researchtools 44 2011-09-24 21:59 sample.sh  
-rw-r--r-- 1 researchtools researchtools 43 2011-09-24 21:59 sample.sh-  
-rw-r--r-- 1 researchtools researchtools 425 2011-09-24 21:55 tutorial.txt  
-rw-r--r-- 1 researchtools researchtools 101 2011-09-24 21:46 tutorial.txt-  
researchtools@ubuntu:~/tutorial-2$ chmod +x sample.sh  
researchtools@ubuntu:~/tutorial-2$ ls -l sample.sh  
-rwxr-xr-x 1 researchtools researchtools 44 2011-09-24 21:59 sample.sh
```

-U:**- *shell* Bot L39 (Shell:run)-----

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
#!/bin/bash
```

```
# comment
```

```
echo "Hello World"
```

```
-U:--- sample.sh All L7 (Shell-script[sh])-----  
- -rw-r--r-- 1 researchtools researchtools 44 2011-09-24 21:59 sample.sh  
-rw-r--r-- 1 researchtools researchtools 43 2011-09-24 21:59 sample.sh~  
-rw-r--r-- 1 researchtools researchtools 425 2011-09-24 21:55 tutorial.txt  
-rw-r--r-- 1 researchtools researchtools 101 2011-09-24 21:46 tutorial.txt~  
researchtools@ubuntu:~/tutorial-2$ chmod +x sample.sh  
researchtools@ubuntu:~/tutorial-2$ ls -l sample.sh  
-rwxr-xr-x 1 researchtools researchtools 44 2011-09-24 21:59 sample.sh  
researchtools@ubuntu:~/tutorial-2$ sample.sh  
sample.sh: command not found  
researchtools@ubuntu:~/tutorial-2$ echo $PATH  
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games  
researchtools@ubuntu:~/tutorial-2$ ./sample.sh  
Hello World  
researchtools@ubuntu:~/tutorial-2$
```

```
-U:**- *shell* Bot L45 (Shell:run)-----
```



```
#!/bin/bash  
  
# comment  
  
echo "Hello World"  
  
█
```

-U:--- sample.sh All L7 (Shell-script[sh])-----

```
-*- mode: compilation; default-directory: "/home/researchtools/tutorial-2/" -*-  
Compilation started at Sat Sep 24 22:02:14  
  
./sample.sh  
Hello World  
  
█ compilation finished at Sat Sep 24 22:02:14
```

02 *- *compilation* All L7 (Compilation:exit [0])-----

```
emacs23@ubuntu
File Edit Options Buffers Tools Complete In/Out Signals Help
#!/usr/bin/env python
print "Hello World from Python"
[]
-U:--- sample.py All L4 (Python yas)-----
- Hello World
researchtools@ubuntu:~/tutorial-25 ls -l
total 20
-rw-r--r-- 1 researchtools researchtools 55 2011-09-24 22:03 sample.py
-rwxr-xr-x 1 researchtools researchtools 44 2011-09-24 21:59 sample.sh
-rw-r--r-- 1 researchtools researchtools 43 2011-09-24 21:59 sample.sh-
-rw-r--r-- 1 researchtools researchtools 425 2011-09-24 21:55 tutorial.txt
-rw-r--r-- 1 researchtools researchtools 101 2011-09-24 21:46 tutorial.txt-
researchtools@ubuntu:~/tutorial-25 chmod +x sample.py
researchtools@ubuntu:~/tutorial-25 ls -l sample.py
-rwxr-xr-x 1 researchtools researchtools 55 2011-09-24 22:03 sample.py
researchtools@ubuntu:~/tutorial-25 ./sample.py
Hello World from Python
- researchtools@ubuntu:~/tutorial-25
-U:**- *shell* Bot L57 (Shell:run)-----
```



Click <mouse-2> on a completion to select it.
In this buffer, type RET to select the completion near point.

Possible completions are:

- | | |
|----------------------------|---------------|
| #unhresearchtools | *Completions* |
| *GNU Emacs* | *Messages* |
| *scratch* | *shell* |
| researchtools.ccom.nh:6667 | sample.sh |
| sample2.py | tutorial-2 |
| tutorial.txt | - |

-U:%%- *Completions* All L1 (Completion List)-----

-*- mode: compilation; default-directory: */home/researchtools/tutorial-2/* -*-

Compilation started at Sat Sep 24 22:04:06

./sample.py
Hello World from Python

Compilation finished at Sat Sep 24 22:04:07

█

09 *- *compilation* All L8 (Compilation:exit [0])-----

Switch to buffer (default *shell*):

- ~/tutorial-2/
- sample.py
- sample2.py

```
sample2.py
File Edit Options Buffers Tools IM-Python Python YASnippet Help
#!/usr/bin/env python
print "Hello World from Python"
what am I doing ?
█
-U:--- sample2.py All L6 (Python yas)-----
-[- mode: compilation; default-directory: "/home/researchtools/tutorial-2/" -*.
Compilation started at Sat Sep 24 22:06:48
./sample2.py
File "./sample2.py", line 5
  what am I doing ?
      ^
SyntaxError: invalid syntax
Compilation exited abnormally with code 1 at Sat Sep 24 22:06:48
-U:%*-*compilation* All L1 (Compilation:exit [1])-----
Compilation exited abnormally with code 1
```

Speedbar 1.0

- ~/tutorial-2/
- sample.py
- sample2.py

<< # Files 3 >>

```
sample2.py~
File Edit Options Buffers Tools IM-Python Python YASnippet Help
#!/usr/bin/env python
print "Hello World from Python"
```

Speedbar 1.0

- /tutorial-2/
 + sample.py
 + sample2.py

<< # Files 1 >>

```
--:%%- sample2.py~ All L3 (Python yas)-----
-.*- mode: grep; default-directory: "/home/researchtools/tutorial-2/" -.*-
Grep started at Sat Sep 24 22:07:54

grep -nH -e print *
sample2.py:3:print "Hello World from Python"
▶ sample2.py~:3:print "Hello World from Python"
sample.py:3:print "Hello World from Python"

Grep finished (matches found) at Sat Sep 24 22:07:54
```

```
04 *-* *grep* All L6 (Grep:exit [matched])-----
```