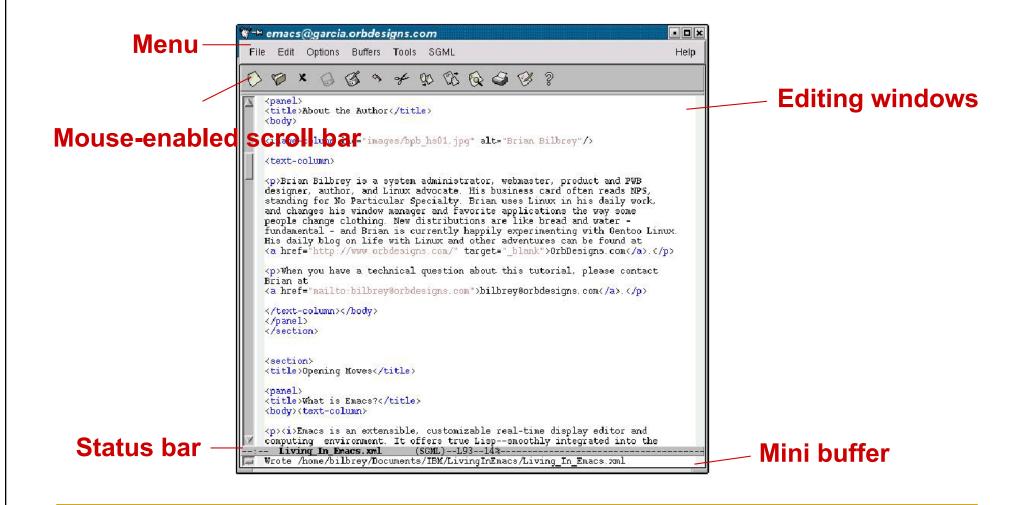


#### What is Emacs?

- Emacs is the extensible, customizable, selfdocumenting real-time display editor.
- Emacs can do so very many different things so well that it would make a fine operating system.

### The Emacs view



### Emacs keystroke conventions

- C-<chr> == Control + character, pressed at the same time.
- M-<chr> == Meta + character, pressed at the same time.
  - p.s. Meta might be the Alt key, or the Esc key

# Commands and key-bindings

- Emacs implements a version of LISP to build its commands and extensions.
- All commands have names, like Buffermenu-bury, backward-char.
- Many of the commands are bound to key combinations, prefaced with the Control and Meta keys.

#### First instructions

- C-x C-c : Quit the Emacs
- C-x C-f : open a file
- C-x C-s: save my work and continue typing
- C-x C-w : save as
- C-space: set mark
- C-w: cut text to the cursor position after marking
- M-w: copy text to cursor position post marking
- C-y" paste txt

### Emacs cut and paste

- C-d: deletes the character under the cursor
- M-d: kill-word
- M-Delete: backward-kill-word
- M-k: kill-sentence
- C-x: Delete backward-kill-sentence
- C-k : kill-line
- C-y : yank the most recent block

### The universal argument

C-u: universal-argument. It can be used as a prefix for a great number of other actions

■ Ex: type C-u 3 C-k kills three lines.

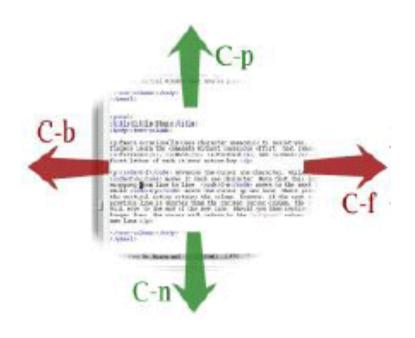
# Basic operations in review

Key-binding	Action (command)
C-g (Esc Esc Esc)	keyboard-quit to get out of
	a command that's been started
Backspace	backward-delete-char
Delete (C-d)	delete-char
C-x u (C)	advertised-undo
M-d	kill-word
M-Delete	backward-kill-word

# Basic operations in review (conti.)

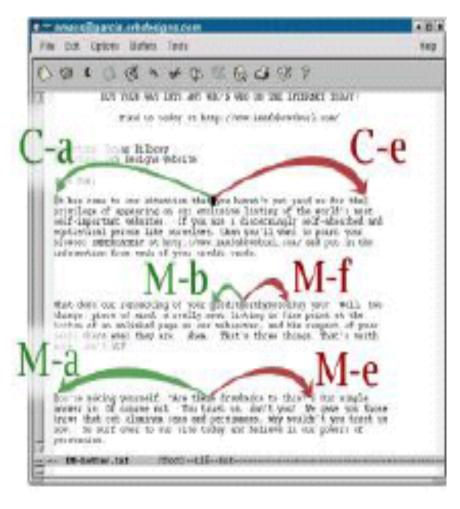
Key-binding	Action (command)
M-k	kill-sentence
C-x Delete	backward-kill-sentence
C-k	kill-line
С-У	yank is the paste equivalent
M-y	Traverse the kill ring, must follow C-y
C-u, C-u N	universal-argument, adds count prefix to commands

## Little steps



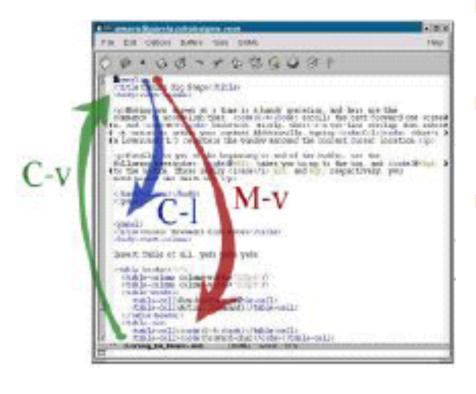
- C-f advances the cursor one character
- C-b moves it back one character
- C-n moves to the next line
- C-p moves the cursor up one line

### Words, lines, and sentences



- C-a takes you to the first column in the current line
- C-e takes you to the line's end
- M-b moves back one word
- M-f moves the cursor forward one word
- M-a takes us backward to the beginning of the current sentence
- M-e moves forward in the same manner, relative to sentence ends

## Taking big steps



- C-v scrolls the text forward one screen
- M-v scrolls the text backward one screen
- C-1 re-centers the window around the current cursor location

### Incremental searches

C-s: isearch-forward

C-r : isearch-backward

## Regexp searches

- ESC C-s: start a forward regexp search
- ESC C-r: start a backwards regexp search

Ex: I have the words *bartok* and *footok* someplace in my text. I want to find the closest instance of either one.

ESC C-r bar\|foo

## Replacing text

- M-X replace-string: This is followed by the target string/expression and the replacement string. Replacement is unconditional and forward from the cursor location only.
- M-%: query-replace

### Windows in Emacs

- C-x 2: split them horizontally
- C-x 3: split them vertically
- C-x ○: switch between visible windows

#### Buffers in action

■ Type C-x C-b. Your listing should resemble this:

### Buffers in action (conti.)

- The MR column reflects the "Modified" and "Read-Only" status of each buffer.
- Buffer (name), Size and File are selfexplanatory.
- Switch to the buffer listing window (using C-x o), and press Enter to select it.

### More about buffers

- C-x b: get a prompt in the mini-buffer, and then type the name of the destination buffer Press Enter to open that buffer in the current window.
- C-x k: kill the current buffer

#### Modes

- Modes are the methods by which Emacs features are expressed in the context of specific types of content.
- That is, indenting behaves differently in a C source code file than in an HTML file or in a letter to your boss.
- There are two different types of modes: major and minor.

## Modes (conti.)

M-x valid mode name : set the mode of a buffer

Ex: If I open a file named *bob.txt*, the buffer will open in text-mode. To start working in c-mode, I can type this:

M-x c-mode

# Compiling code

Type M-x compile and the prompt in the mini-buffer reads, Compile command:

Type in

gcc -o hello hello.c

To see if my program works, I'll run it from inside Emacs:

 $M-! \sim /hello.$ 

There in the mini-buffer is my output:

Hello, World!

## Connectivity in Emacs

- C-x m : start a new e-mail message
- M-x browse-url-lynx-emacs: invoke Lynx, enter the URL