

## Computer Programming II Quick Reference / Bookmark (BYUH, CS201, Winter 2003)

<http://gradebot.byuh.edu/>

### Professor Colton

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**Office:** GCB 130B

### Tutoring in GCB 101

**Hours:** Mon-Thu, 3–11:30+ PM

**Hours:** Fri, 3–8 PM

**Hours:** Sat, 3–6 PM

### ssh: Secure Telnet Client

Connect to **cs.byuh.edu**

Or to **cgi.cs.byuh.edu**

Under Microsoft Windows use **ssh**  
(available at gradebot.byuh.edu)

### Unix Commands

**fg** right before logging out

**jobs** see what jobs are still running

**exit** or **logout** to log out

**passwd** change your password

**perl abc** use Perl to run abc

**cat** (concatenate) type out a file

**ls -l** list (long format) the directory

**mv** move (rename) a file

**rm** remove (delete) a file

**mkdir** make a new directory

**cd** change directory

**pwd** print working (current) directory

**rmdir** remove a directory

**du** disk usage (lists directory tree)

**df** disk freespace

**w** see who is logged in

**top** see why machine is slow

**Delete-key** delete prior character

**Backspace-key** not always = delete

**info xyz** learn how to use xyz

**man xyz** learn how to use xyz

**chmod** change permissions on a file

### Emacs Commands

**emacs** (from unix) start the editor

**M-** (meta) press Esc, then release

**C-** (ctrl) means hold down Ctrl

**C-g** abandon the command in progress

**C-x C-c** exit emacs (see also C-z)

**C-h t** tutorial: learn emacs better

**C-x C-f** edit a file (maybe new)

**C-x C-s** save your changes

**C-x C-w** write: save-as (rename)

**C-x i** insert text from another file

**C-x b** bounce between buffers

**C-x C-b** see a list of buffers

**C-x 1** (one) reduce screen to one window

**C-p** go to previous line (cursor up 1)

**C-n** go to next line (cursor down 1)

**C-f** go forward one position

**C-b** go backward one position

**C-d** delete current character

**Delete-key** delete prior character

**C-a** go to start of line

**C-e** go to end of line

**C-k** kill (cut) to end of line

kill several times to cut several lines

**C-y** yank (paste) back what was killed

**C-k C-y** kill/yank (copy)

**C-s** search (type one letter at a time)

**C-\_** undo last change

**C-x u** undo last change

**M-C-f** go to matching close paren/brace

**M-C-b** go to matching open paren/brace

**C-l** (el) center and redraw screen

### Shell Out / Compile / Test

**C-x C-w myprogram** save your file

**C-z** put something to sleep temporarily  
this is also called “shelling out”

**fg** (foreground) wakes it up again

**C-x C-c** exit emacs permanently

**perl myprogram** run it (test it)

**chmod 750 myprogram** make it executable

**myprogram** run it (if it is executable)

**C-c** kill what’s running

**turnin** CS command to turn in a lab

**fg** foreground: wake up emacs

### Submitting via Rmail

**M-x rmail** (from emacs) do email

**q** quit rmail, go back to emacs

**C-x C-c** quit rmail and emacs

**m** start a new email message

**To:** **GradeBot@gradebot.byuh.edu**

**Subject:** **cs201 labname** submit a lab

**Subject:** **cs201 status** for status report

**BEGIN** on line before program (optional)  
make sure nothing else is on that line

**C-x i** insert the program you want to send

**END** on line after program (optional)

make sure nothing else is on that line

do **not** use any attachments

do **not** use any fancy encoding

**C-c C-c** send the message

**after sending wait five seconds...**

**g** get new mail

**C-s ###** search for trouble

**C-l** (el) stop the search right here

**n** go to next message

**p** go to previous message

**d** delete current message

**u** undelete prior deleted message

**c** continue editing an email

**C-x 1** (one) reduce screen to one window

**C-x 2** split screen into two windows

**C-x o** jump to next (other) window