

RESEARCH TOOLS 2011

LECTURE 8

2011-Sep-22
Kurt Schwehr
<http://schwehr.org>

UNH CCOM/JHC

emacs23@ubuntu

File Edit Options Buffers Tools Help



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 <i>ABSOLUTELY NO WARRANTY</i>
Copying Conditions	Conditions for redistributing and changing Emacs
Ordering Manuals	Purchasing printed copies of manuals

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
Copyright (C) 2010 Free Software Foundation, Inc.

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

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File Edit Options Buffers Tools Minibuf Help



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-U:%%- *GNU Emacs* All L5 (Fundamental)-----

Find file: ~/

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File Edit Options Buffers Tools Operate Mark Regexp Immediate Subdir Help



```
/home/researchtools:
total used in directory 228 available 11917372
drwxr-xr-x 35 researchtools researchtools 4096 2011-09-22 11:14 .
drwxr-xr-x  4 root            root            4096 2011-09-01 19:33 ..
-rw-r--r--  1 researchtools researchtools 16343 2011-09-22 11:14 8-more-emacs-and-script-files.org
-rw-----  1 researchtools researchtools  7878 2011-09-22 10:43 .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  8 researchtools researchtools  4096 2011-09-22 10:03 .cache
drwxr-xr-x 12 researchtools researchtools  4096 2011-09-22 10:20 .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 2011-09-22 10:03 .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 2011-09-22 10:03 .dropbox
drwx----- 14 researchtools researchtools  4096 2011-09-22 10:03 Dropbox
drwxr-xr-x  5 researchtools researchtools  4096 2011-09-15 12:09 .dropbox-dist
drwxr-xr-x  3 researchtools researchtools  4096 2011-09-13 12:29 .emacs.d
-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 2011-09-22 10:03 .gconf
drwx-----  2 researchtools researchtools  4096 2011-09-22 11:16 .gconfd
-rw-r-----  1 researchtools researchtools     0 2011-09-22 10:39 .gksu.lock
drwx-----  6 researchtools researchtools  4096 2011-09-13 11:48 .gnome2
drwx-----  2 researchtools researchtools  4096 2011-09-13 11:48 .gnome2_private
-rw-----  1 researchtools researchtools    73 2011-09-22 10:34 .gnuplot_history
-rw-r--r--  1 researchtools researchtools    49 2011-09-22 10:30 .gnuplot-wxt
drwx-----  4 researchtools researchtools  4096 2011-09-22 10:28 .googleearth
-rw-r--r--  1 researchtools researchtools   177 2011-09-22 10:03 .gtk-bookmarks
dr-x-----  2 researchtools researchtools     0 2011-09-22 10:03 .gvfs
drwxr-xr-x  3 researchtools researchtools  4096 2011-09-16 05:32 hw
-rw-----  1 researchtools researchtools  1272 2011-09-22 10:03 .ICEauthority
```

-U:%%- ~ Top L5 (Dired by name)-----

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File Edit Options Buffers Tools Operate Mark Regexp Immediate Subdir Help



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/home/researchtools:
total used in directory 228 available 11917372
drwxr-xr-x 35 researchtools researchtools 4096 2011-09-22 11:14 .
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-rw-r--r--  1 researchtools researchtools 16343 2011-09-22 11:14 8-more-emacs-and-script-files.org
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drwxr-xr-x  8 researchtools researchtools  4096 2011-09-22 10:03 .cache
drwxr-xr-x 12 researchtools researchtools  4096 2011-09-22 10:20 .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 2011-09-22 10:03 .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 2011-09-22 10:03 .dropbox
drwx----- 14 researchtools researchtools  4096 2011-09-22 10:03 Dropbox
drwxr-xr-x  5 researchtools researchtools  4096 2011-09-15 12:09 .dropbox-dist
drwxr-xr-x  3 researchtools researchtools  4096 2011-09-13 12:29 .emacs.d
-rw-----  1 researchtools researchtools    16 2011-09-13 11:23 .esd_auth
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drwxr-xr-x  2 researchtools researchtools  4096 2011-09-22 10:40 .fontconfig
drwx-----  4 researchtools researchtools  4096 2011-09-22 10:03 .gconf
drwx-----  2 researchtools researchtools  4096 2011-09-22 11:16 .gconfd
-rw-r-----  1 researchtools researchtools     0 2011-09-22 10:39 .gksu.lock
drwx-----  6 researchtools researchtools  4096 2011-09-13 11:48 .gnome2
drwx-----  2 researchtools researchtools  4096 2011-09-13 11:48 .gnome2_private
-rw-----  1 researchtools researchtools    73 2011-09-22 10:34 .gnuplot_history
-rw-r--r--  1 researchtools researchtools    49 2011-09-22 10:30 .gnuplot-wxt
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-rw-r--r--  1 researchtools researchtools   177 2011-09-22 10:03 .gtk-bookmarks
dr-x-----  2 researchtools researchtools     0 2011-09-22 10:03 .gvfs
drwxr-xr-x  3 researchtools researchtools  4096 2011-09-16 05:32 hw
-rw-----  1 researchtools researchtools  1272 2011-09-22 10:03 .ICEauthority
```

-U:%%- ~ Top L16 (Dired by name Isearch)-----

I-search: drop

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File Edit Options Buffers Tools Minibuf Help



```
/home/researchtools:
total used in directory 228 available 11917372
drwxr-xr-x 35 researchtools researchtools 4096 2011-09-22 11:14 .
drwxr-xr-x  4 root            root            4096 2011-09-01 19:33 ..
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-rw-----  1 researchtools researchtools  7878 2011-09-22 10:43 .bash_history
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dr-x-----  2 researchtools researchtools     0 2011-09-22 10:03 .gvfs
drwxr-xr-x  3 researchtools researchtools  4096 2011-09-16 05:32 hw
-rw-----  1 researchtools researchtools  1272 2011-09-22 10:03 .ICEauthority
```

-U:%%- ~ Top L11 (Dired by name)-----

Failing I-search: drop

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File Edit Options Buffers Tools Org Tbl Help



#+STARTUP: showall

#+TITLE: **Class 8: More emacs and script files (DRAFT)**

#+AUTHOR: Kurt Schwehr

#+EMAIL: schwehr@ccom.unh.edu

#+DATE: <2011-09-22 Thu>

#+DESCRIPTION: Marine Research Data Manipulation and Practices

#+KEYWORDS: emacs, org-mode

#+LANGUAGE: en

#+OPTIONS: H:3 num:nil toc:t \n:nil @:t ::t |:t ^:t -:t f:t *:t <:t

#+OPTIONS: TeX:t LaTeX:nil skip:t d:nil todo:t pri:nil tags:not-in-toc

#+INFOJS_OPT: view:nil toc:nil ltoc:t mouse:underline buttons:0 path:http://orgmode.org/org-info.js

#+LINK_HOME: http://vislab-ccom.unh.edu/~schwehr/Courses/2011/esci895-researchtools/

* todo

* todo items

- Why am I teaching these tools? <http://slashgeo.org/2011/09/16/FOSS4G-2011-Brian-Timoney-GeoSpatial-One-Stop-Irene-USA>

- create homework

- <http://manpages.ubuntu.com> and use the ones for 11.04# - <http://stackoverflow.com/>

- finding out about software in Ubuntu

- How to create a script

- Getting images from the healy

* Introduction

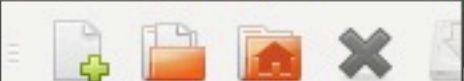
* Getting help

:stackoverflow:

<http://stackoverflow.com/questions/7431167/escaping-org-mode-example-block-inside-of-an-example-block>

* Videos on Emacs

--- 8-more-emacs-and-script-files.org Top L1 (Org) ---



#+STARTUP: showall

#+TITLE: clas

#+AUTHOR: Kurt S

#+EMAIL: schweh

#+DATE: <2011-

#+DESCRIPTION: Mari

#+KEYWORDS: emacs,

#+LANGUAGE: en

#+OPTIONS: H:3 nu

#+OPTIONS: TeX:t

#+INFOJS_OPT: view:

#+LINK_HOME: http://

* todo

* todo items

- Why am I teachi

- create homework

- http://manpages

- http://stackove

- finding out abo

- How to create a

- Getting images

* Introduction

* Getting help

<http://stackoverflow.com>

* Videos on Emacs

8-more-emacs-s

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No.	Date	Title/Notes	Audio/Podcast
8.	2011-09-22	More emacs and script files [org]	[mp3] [m4a] [ogg]
HW 2	2011-09-20	Homework 2: shell and org-mode due Thurs 2011-09-22 5PM EDT [org]	
7.	2011-09-20	Emacs and org-mode [org]	[mp3] [m4a] [ogg]
6.	2011-09-15	KeyPassX and Dropbox [org]	[mp3] [m4a] [ogg]
5.	2011-09-13	File types, Intro to Emacs, beginning scripts [org]	[mp3] [m4a] [ogg]
4.	2011-09-08	VMWare Ubuntu Image (Coming soon)	[mp3] [m4a] [ogg]
3.	2011-09-06	Wiki editing, Weather Demo, Basic Command Line [org]	[mp3] [m4a] [ogg]
2.	2011-09-01	IRC, Wiki, Basic Shell [org]	[mp3] [m4a] [ogg]
http://vislab-ccom.unh.edu/~schwehr/rt/emacs-and-script-files.org			[mp3] [m4a] [ogg]

p-Irene-USA



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#+TITLE: clas

#+AUTHOR: Kurt S

#+EMAIL: schweh

#+DATE: <2011-

#+DESCRIPTION: Mari

#+KEYWORDS: emacs,

#+LANGUAGE: en

#+OPTIONS: H:3 nu

#+OPTIONS: TeX:t

#+INFOJS_OPT: view

#+LINK_HOME: http:/

* todo

* todo items

- Why am I teachi

- create homework

- http://manpages

- http://stackove

- finding out abo

- How to create a

- Getting images

* Introduction






* Getting help

http://stackoverflow

* Videos on Emacs

8-more-emacs-a

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http://vislab-ccom.unh.e...acs-and-script-files.org			[mp3] [m4a] [ogg]

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Copy Link Location

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File Edit Options Buffers Tools Org Tbl Help



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#+LANGUAGE: en

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<http://stackoverflow.com/questions/7431167/escaping-org-mode-example-block-inside-of-an-example-block>

* Videos on Emacs

--- 8-more-emacs-and-script-files.org Top L1 (Org) ---

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File Edit Options Buffers Tools Org Tbl Help

Visit New File... C-x C-f

Open File...

Open Directory... C-x d

Insert File... C-x i

Close

Save

Save As... C-x C-w

Revert Buffer

Recover Crashed Session

Print Buffer

Print Region

Postscript Print Buffer

Postscript Print Region

Postscript Print Buffer (B+W)

Postscript Print Region (B+W)

Split Window C-x 2

Remove Splits C-x 1

New Frame C-x 5 2

New Frame on Display...

Delete Frame C-x 5 0

Quit C-x C-c

#+LINK_HOME: <http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/>

* todo

* todo items

8-more-emacs-and-script-files.org Top L1 (Org)-----

C-x 2

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File Edit Options Buffers Tools Org Tbl Help



* todo items

```
# - Why am I teaching these tools? http://slashgeo.org/2011/09/16/FOSS4G-2011-Brian-Timoney-GeoSpatial-One-Stop-Irene-USA
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# - finding out about software in Ubuntu
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* Introduction

* Getting help

:stackoverflow:

<http://stackoverflow.com/questions/7431167/escaping-org-mode-example-block-inside-of-an-example-block>

----- 8-more-emacs-and-script-files.org 4% L30 (Org) -----

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#+AUTHOR: Kurt Schwehr

#+EMAIL: schwehr@ccom.unh.edu

#+DATE: <2011-09-22 Thu>

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#+OPTIONS: H:3 num:nil toc:t \n:nil @:t ::t |:t ^:t -:t f:t *:t <:t

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#+INFOJS_OPT: view:nil toc:nil ltoc:t mouse:underline buttons:0 path:http://orgmode.org/org-info.js

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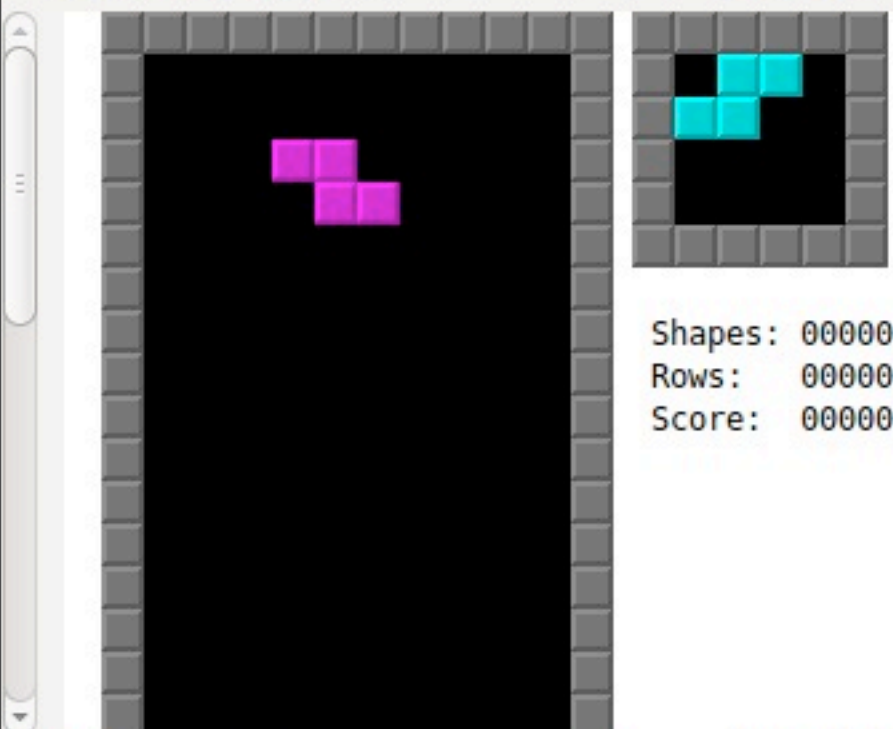
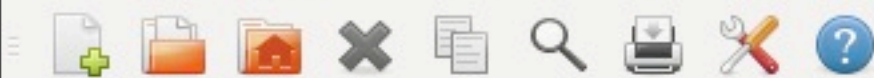
* todo items

----- 8-more-emacs-and-script-files.org Top L1 (Org) -----

Quit

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File Edit Options Buffers Tools Help



-U:%*- *Tetris* Top L1 (Tetris)-----

#+STARTUP: showall

```
#+TITLE:      Class 8: More emacs and script files (DRAFT)
#+AUTHOR:     Kurt Schwehr
#+EMAIL:      schwehr@ccom.unh.edu
#+DATE:       <2011-09-22 Thu>
#+DESCRIPTION: Marine Research Data Manipulation and Practices
#+KEYWORDS:   emacs, org-mode
#+LANGUAGE:   en
#+OPTIONS:    H:3 num:nil toc:t \n:nil @:~ ::t |:t ^:~ -:t f:t *:t <:t
#+OPTIONS:    TeX:t LaTeX:nil skip:t d:nil todo:t pri:nil tags:~ in-toc
#+INFOJS_OPT: view:nil toc:nil ltoc:t mouse:underline buttons:0 path:http://orgmode.org/org-info.js
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# * todo
# * todo items
```

--- 8-more-emacs-and-script-files.org Top L1 (Org)-----

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File Edit Options Buffers Tools Operate Mark Regexp Immediate Subdir Help



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#+AUTHOR:     Kurt Schwehr
#+EMAIL:      schwehr@ccom.unh.edu
#+DATE:       <2011-09-22 Thu>
#+DESCRIPTION: Marine Research Data Manipulation and Practices
#+KEYWORDS:   emacs, org-mode
#+LANGUAGE:   en
#+OPTIONS:    H:3 num:nil toc:t \n:nil @:~ ::t |:t ^:~ -:t f:t *:t <:t
#+OPTIONS:    TeX:t LaTeX:nil skip:t d:nil todo:t pri:nil tags:~ in-toc
#+INFOJS_OPT: view:nil toc:nil ltoc:t mouse:underline buttons:0 path:http://orgmode.org/org-info.js
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# * todo
# * todo items
```

-:--- 8-more-emacs-and-script-files.org Top L1 (Org)-----

emacs23@ubuntu

File Edit Options Buffers Tools Minibuf Help



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-rw-----  1 researchtools researchtools  7878 2011-09-22 10:43 .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  8 researchtools researchtools  4096 2011-09-22 10:03 .cache
drwxr-xr-x 12 researchtools researchtools  4096 2011-09-22 10:20 .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 2011-09-22 10:03 .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 2011-09-22 10:03 .dropbox
```

-U:%%- ~ Top L5 (Dired by name)-----

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*
8-more-emacs-and-script-files.org	~

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

Kill buffer (default ~):

emacs23@ubuntu

File Edit Options Buffers Tools Minibuf Help



```
/home/researchtools:
total used in directory 228 available 11917372
drwxr-xr-x 35 researchtools researchtools 4096 2011-09-22 11:14 .
drwxr-xr-x  4 root            root          4096 2011-09-01 19:33 ..
-rw-r--r--  1 researchtools researchtools 16343 2011-09-22 11:14 8-more-emacs-and-script-files.org
-rw-----  1 researchtools researchtools  7878 2011-09-22 10:43 .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  8 researchtools researchtools  4096 2011-09-22 10:03 .cache
drwxr-xr-x 12 researchtools researchtools  4096 2011-09-22 10:20 .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 2011-09-22 10:03 .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 2011-09-22 10:03 .dropbox
```

-U:%%- ~ Top L5 (Dired by name)-----

#+STARTUP: showall

```
#+TITLE:      Class 8: More emacs and script files (DRAFT)
#+AUTHOR:     Kurt Schwehr
#+EMAIL:      schwehr@ccom.unh.edu
#+DATE:       <2011-09-22 Thu>
#+DESCRIPTION: Marine Research Data Manipulation and Practices
#+KEYWORDS:   emacs, org-mode
#+LANGUAGE:   en
#+OPTIONS:    H:3 num:nil toc:t \n:nil @:~ ::t |:t ^:~ -:t f:t *:t <:t
#+OPTIONS:    TeX:t LaTeX:nil skip:t d:nil todo:t pri:nil tags:not-in-toc
#+INFOJS_OPT: view:nil toc:nil ltoc:t mouse:underline buttons:0 path:http://orgmode.org/org-info.js
#+LINK_HOME:  http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/

# * todo
# * todo items
```

--:--- 8-more-emacs-and-script-files.org Top L1 (Org)-----

Kill buffer (default ~): 8-more-emacs-and-script-files.org

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



researchtools@ubuntu:~\$

-U:*** *shell*

All L1

(Shell:run)

#+STARTUP: showall

#+TITLE: **Class 8: More emacs and script files (DRAFT)**

#+AUTHOR: Kurt Schwehr

#+EMAIL: schwehr@ccom.unh.edu

#+DATE: <2011-09-22 Thu>

#+DESCRIPTION: Marine Research Data Manipulation and Practices

#+KEYWORDS: emacs, org-mode

#+LANGUAGE: en

#+OPTIONS: H:3 num:nil toc:t \n:nil @:t ::t |:t ^:t -:t f:t *:t <:t

#+OPTIONS: TeX:t LaTeX:nil skip:t d:nil todo:t pri:nil tags:not-in-toc

#+INFOJS_OPT: view:nil toc:nil ltoc:t mouse:underline buttons:0 path:http://orgmode.org/org-info.js

#+LINK_HOME: http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/

* todo

* todo items

8-more-emacs-and-script-files.org

Top L1

(Org)

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
researchtools@ubuntu:~$ mkdir -p class/8
researchtools@ubuntu:~$
```

-U:**- *shell* All L2 (Shell:run)-----

For the rest of the semester, you need to keep a log file for this class.

```
mkdir ~/Dropbox/logs
```

* Working with the ocean drilling projects site database :odp:

```
#+BEGIN_SRC sh
```

```
mkdir -p class/8
```

```
cd class/8
```

```
#+END_SRC
```

Today, we will use a program very similar to wget called [curl](#)
([curl.1 man page](#)) to fetch data.

```
#+BEGIN_SRC sh
```

--:--- 8-more-emacs-and-script-files.org 10% L49 (Org)-----

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
researchtools@ubuntu:~$ mkdir -p class/8
researchtools@ubuntu:~$ cd class/8
researchtools@ubuntu:~/class/8$ ls -la
total 8
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-22 11:49 .
drwxr-xr-x 3 researchtools researchtools 4096 2011-09-22 11:49 ..
researchtools@ubuntu:~/class/8$
```

-U:**- *shell* All L7 (Shell:run)-----

For the rest of the semester, you need to keep a log file for this class.

```
mkdir ~/Dropbox/logs
```

* Working with the ocean drilling projects site database :odp:

```
#+BEGIN_SRC sh
mkdir -p class/8
cd class/8
#+END_SRC
```

Today, we will use a program very similar to wget called [curl](#) ([curl.1 man page](#)) to fetch data.

```
#+BEGIN_SRC sh
```

-:--- 8-more-emacs-and-script-files.org 10% L49 (Org)-----

emacs23@ubuntu

researchtools@ubuntu: ~

File Edit View Search Terminal Help

```
researchtools@ubuntu:~$ sudo apt-get install curl
[sudo] password for researchtools:
Reading package lists... Done
Building dependency tree
Reading state information... Done
curl is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
researchtools@ubuntu:~$
```

Today, we will use a program very similar to wget called [curl](#) ([curl.1 man page](#)) to fetch data.

#+BEGIN_SRC sh

```
sudo apt-get install curl
```

```
curl -O http://vislab-ccom.unh.edu/~schwehr/Courses/2011/esci895-researchtools/examples/holes.csv.bz2
```

/esci895-researchtools/examples/holes.csv.bz2

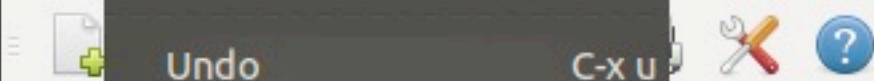
#	% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current
#				Dload Upload	Total	Spent	Left	Speed
#	100	38953	100	38953	0	0	224k	0
					---	---	---	358k

#+END_SRC

8-more-emacs-and-script-files.org 11% L57 (Org)

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



Undo C-x u

Cut <cut> -p class/8

Copy <copy> class/8

Paste

Paste from Kill Menu researchtools 4096 2011-09-22 11:49 .

Paste (yank) text most recently cut/copied 09-22 11:49 ..

Clear

Select All C-x h

Search

Replace

Go To

Bookmarks

Fill

Text Properties

(Shell:run)-----

```
mkdir -p class/8
cd class/8
#+END_SRC
```

Today, we will use a program very similar to wget called [curl](#) ([curl.1 man page](#)) to fetch data.

```
#+BEGIN_SRC sh
```

```
sudo apt-get install curl
```

```
curl -O http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/examples/holes.csv.bz2
```

```
# /esci895-researchtools/examples/holes.csv.bz2
```

```
# % Total    % Received % Xferd  Average Speed   Time    Time       Time  Current
#                                 Dload  Upload   Total   Spent    Left   Speed
# 100 38953  100 38953    0     0  224k      0  --:--:-- --:--:-- --:--:--  358k
```

```
#+END_SRC
```

```
----- 8-more-emacs-and-script-files.org 11% L59 (Org)-----
```

```
Mark set
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
researchtools@ubuntu:~$ mkdir -p class/8
researchtools@ubuntu:~$ cd class/8
researchtools@ubuntu:~/class/8$ ls -la
total 8
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-22 11:49 .
drwxr-xr-x 3 researchtools researchtools 4096 2011-09-22 11:49 ..
researchtools@ubuntu:~/class/8$ curl -O http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/examples/holes.csv.bz2
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 38953  100 38953    0     0  1042k      0  --:--:-- --:--:-- --:--:-- 1729k
researchtools@ubuntu:~/class/8$
```

-U:**- *shell*

All L11

(Shell:run)

```
mkdir -p class/8
cd class/8
#+END_SRC
```

Today, we will use a program very similar to wget called [curl](#) ([curl.1 man page](#)) to fetch data.

#+BEGIN_SRC sh

```
sudo apt-get install curl
```

```
curl -O http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/examples/holes.csv.bz2
```

/esci895-researchtools/examples/holes.csv.bz2

```
# % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
#                                 Dload  Upload   Total   Spent    Left   Speed
# 100 38953  100 38953    0     0  224k      0  --:--:-- --:--:-- --:--:-- 358k
```

#+END_SRC

8-more-emacs-and-script-files.org

11% L59

(Org)

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help

Undo C-x u

Cut <cut>

Copy <copy>

Paste

Paste from Kill Menu

Clear

Select All C-x h

Search

Replace

Go To

Bookmarks

Fill

Text Properties

scissors

two sheets

one sheet

magnifying glass

printer

wrench and screwdriver

question mark

mkdir -p class/8

cd class/8

#+END_SRC

Today, we will use a program very similar to wget called [curl](#) ([curl.1 man page](#)) to fetch data.

#+BEGIN_SRC sh

sudo apt-get install curl

curl -O http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/examples/holes.csv.bz2

/esci895-researchtools/examples/holes.csv.bz2

% Total % Received % Xferd Average Speed Time Time Time Current

% 100 38953 100 38953 0 0 224k 0 --:--:-- --:--:-- --:--:-- 358k

#+END_SRC

99-22 11:49 .

99-22 11:49 ..

ab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/examples/holes.csv.bz2

Time	Time	Time	Current
Total	Spent	Left	Speed
--:--:--	--:--:--	--:--:--	1729k

(Shell:run)

8-more-emacs-and-script-files.org

11% L57

(Org)

Tuesday, September 27, 2011

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
researchtools@ubuntu:~$ mkdir -p class/8
researchtools@ubuntu:~$ cd class/8
researchtools@ubuntu:~/class/8$ ls -la
total 8
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-22 11:49 .
drwxr-xr-x 3 researchtools researchtools 4096 2011-09-22 11:49 ..
researchtools@ubuntu:~/class/8$ curl -O http://vislab-ccom.unh.edu/~schwehr/Courses/2011/esci895-researchtools/examples/holes.csv.bz2
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 38953  100 38953    0     0  1042k      0 --:--:-- --:--:-- --:--:-- 1729k
researchtools@ubuntu:~/class/8$ file *
holes.csv.bz2: bzip2 compressed data, block size = 900k
researchtools@ubuntu:~/class/8$ bunzip2 holes.csv.bz2
```

-U:*** *shell*

All L13

(Shell:run)

#+END_SRC

Uncompress and take a first look at this file:

#+BEGIN_SRC sh

bunzip2 holes.csv.bz2

wc -l holes.csv

3047 holes.csv

head holes.csv

#+END_SRC

The beginning of the holes.csv file looks like this:

#+BEGIN_EXAMPLE

Expedition,Site,Hole,Program,Longitude,Latitude,Water Depth (m),Core Recovered (m)

-:*** 8-more-emacs-and-script-files.org

15% L64

(Org)

Completed

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
researchtools@ubuntu:~$ cd class/8
researchtools@ubuntu:~/class/8$ ls -la
total 8
drwxr-xr-x 2 researchtools researchtools 4096 2011-09-22 11:49 .
drwxr-xr-x 3 researchtools researchtools 4096 2011-09-22 11:49 ..
researchtools@ubuntu:~/class/8$ curl -O http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/examples/holes.csv.bz2
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100 38953  100 38953    0     0  1042k      0 --:--:-- --:--:-- --:--:-- 1729k
researchtools@ubuntu:~/class/8$ file *
holes.csv.bz2: bzip2 compressed data, block size = 900k
researchtools@ubuntu:~/class/8$ bunzip2 holes.csv.bz2
researchtools@ubuntu:~/class/8$ wc -l holes.csv
3047 holes.csv
researchtools@ubuntu:~/class/8$
```

```
-U:***- *shell* Bot L16 (Shell:run)-----
```

```
#+END_SRC
```

```
Uncompress and take a first look at this file:
```

```
#+BEGIN_SRC sh
```

```
bunzip2 holes.csv.bz2
```

```
wc -l holes.csv
```

```
# 3047 holes.csv
```

```
head holes.csv
```

```
#+END_SRC
```

```
The beginning of the holes.csv file looks like this:
```

```
#+BEGIN_EXAMPLE
```

```
Expedition,Site,Hole,Program,Longitude,Latitude,Water Depth (m),Core Recovered (m)
```

```
--:***- 8-more-emacs-and-script-files.org 15% L64 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
holes.csv.bz2: bzip2 compressed data, block size = 900k
researchtools@ubuntu:~/class/8$ bunzip2 holes.csv.bz2
researchtools@ubuntu:~/class/8$ wc -l holes.csv
3047 holes.csv
researchtools@ubuntu:~/class/8$ head holes.csv
Expedition,Site,Hole,Program,Longitude,Latitude,Water Depth (m),Core Recovered (m)
1,1,,DSDP,-92.1833,25.8583,2827,50
1,2,,DSDP,-92.0587,23.0455,3572,13
1,3,,DSDP,-92.0433,23.03,3747,47
1,4,,DSDP,-73.792,24.478,5319,15
1,4,A,DSDP,-73.792,24.478,5319,5.8
1,5,,DSDP,-73.641,24.7265,5354,6.4
1,5,A,DSDP,-73.641,24.7265,5354,1.8
1,6,,DSDP,-67.6477,30.8398,5124,28
1,6,A,DSDP,-67.6477,30.8398,5124
researchtools@ubuntu:~/class/8$
```

```
-U:*** *shell* Bot L27 (Shell:run)-----
```

```
#+END_SRC
```

```
Uncompress and take a first look at this file:
```

```
#+BEGIN_SRC sh
```

```
bunzip2 holes.csv.bz2
```

```
wc -l holes.csv
```

```
# 3047 holes.csv
```

```
head holes.csv
```

```
#+END_SRC
```

```
The beginning of the holes.csv file looks like this:
```

```
#+BEGIN_EXAMPLE
```

```
Expedition,Site,Hole,Program,Longitude,Latitude,Water Depth (m),Core Recovered (m)
```

```
--:*** 8-more-emacs-and-script-files.org 15% L64 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
DSDP
DSDP
DSDP
DSDP
DSDP
DSDP
DSDP
DSDP
DSDP
DSDP
researchtools@ubuntu:~/class/8$ cut -d, -f4 holes.csv | uniq
Program
DSDP
ODP
IODP
researchtools@ubuntu:~/class/8$
```

```
-U:*** *shell* Bot L38 (Shell:run)-----
```

When you run the above command, you will only see the first 10 lines on the screen. That is not very helpful. We would like to see how many unique entry types there are. The `uniq` command removes duplicates in the lines of text that it receives.

```
#+BEGIN_SRC sh
cut -d, -f4 holes.csv | uniq
# Program
# DSDP
# ODP
# IODP
#+END_SRC
```

Next, let's see how many lines there are for each program. We can pass the output of the `grep` to the word count program we used before. `WC=` has an option to only print the number of lines, so we will

```
--:*** 8-more-emacs-and-script-files.org 24% L123 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
DSDP
DSDP
DSDP
DSDP
DSDP
DSDP
DSDP
DSDP
DSDP
researchtools@ubuntu:~/class/8$ cut -d, -f4 holes.csv | uniq
Program
DSDP
ODP
IODP
researchtools@ubuntu:~/class/8$ egrep DSDP holes.csv | wc -l
1116
researchtools@ubuntu:~/class/8$
```

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

pass the output of the grep to the word count program we used before.
=wc= has an option to only print the number of lines, so we will
add "-l" to the command line.

The data gets passed from one program to another by a ***pipe***.
What goes in one side, comes out the other. A pipe is created by the
vertical bar character: "|".

```
#+BEGIN_SRC sh
egrep DSDP holes.csv | wc -l # the letter "l" as in Lima, not the number 1
# 1116

egrep ODP holes.csv | wc -l
# 1930

egrep IODP holes.csv | wc -l
# 153
```

```
--:*** 8-more-emacs-and-script-files.org 27% L131 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
```

```
-U:*** *shell* 98% L940 (Shell:run)-----
```

```
pass the output of the grep to the word count program we used before.
=WC= has an option to only print the number of lines, so we will
add "-l" to the command line.
```

```
The data gets passed from one program to another by a *pipe*.
What goes in one side, comes out the other. A pipe is created by the
vertical bar character: "|".
```

```
#+BEGIN_SRC sh
```

```
egrep DSDP holes.csv | wc -l # the letter "l" as in Lima, not the number 1
# 1116
```

```
egrep ODP holes.csv | wc -l
# 1930
```

```
egrep IODP holes.csv | wc -l
# 153
```

```
--:*** 8-more-emacs-and-script-files.org 27% L131 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
DSDP
DSDP
DSDP
DSDP
DSDP
researchtools@ubuntu:~/class/8$ cut -d, -f4 holes.csv | uniq
Program
DSDP
ODP
IODP
researchtools@ubuntu:~/class/8$ egrep DSDP holes.csv | head
1116
researchtools@ubuntu:~/class/8$ egrep DSDP holes.csv | head
1,1,,DSDP,-92.1833,25.8583,2827,50
1,2,,DSDP,-92.0587,23.0455,3572,13
1,3,,DSDP,-92.0433,23.03,3747,47
```

```
-U:*** *shell* 5% L34 (Shell:run)-----
pass the output of the grep to the word count program we used before.
=wc= has an option to only print the number of lines, so we will
add "-l" to the command line.
```

```
The data gets passed from one program to another by a *pipe*.
What goes in one side, comes out the other. A pipe is created by the
vertical bar character: "|".
```

```
#+BEGIN_SRC sh
egrep DSDP holes.csv | wc -l # the letter "l" as in Lima, not the number 1
# 1116

egrep ODP holes.csv | wc -l
# 1930

egrep IODP holes.csv | wc -l
# 153
```

```
--:*** 8-more-emacs-and-script-files.org 27% L131 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: write error
researchtools@ubuntu:~/class/8$ egrep ODP holes.csv | wc -l
1930
researchtools@ubuntu:~/class/8$
```

```
-U: ** - *shell* Bot L948 (Shell:run)-----
```

pass the output of the grep to the word count program we used before.
=wc= has an option to only print the number of lines, so we will
add "-l" to the command line.

The data gets passed from one program to another by a ***pipe***.
What goes in one side, comes out the other. A pipe is created by the
vertical bar character: "|".

```
#+BEGIN_SRC sh
egrep DSDP holes.csv | wc -l # the letter "l" as in Lima, not the number 1
# 1116

egrep ODP holes.csv | wc -l
# 1930

egrep IODP holes.csv | wc -l
# 153
```

```
--: ** - 8-more-emacs-and-script-files.org 27% L131 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help



```
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: write error
researchtools@ubuntu:~/class/8$ egrep ODP holes.csv | wc -l
1930
researchtools@ubuntu:~/class/8$ egrep IODP holes.csv | wc -l
153
researchtools@ubuntu:~/class/8$
```

```
-U:**- *shell* Bot L950 (Shell:run)-----
```

We have a slight problem here in that the counts are not adding up. The string ODP is found in both the ODP and IODP entries. Here I am using the "binary calculator" ([bc.1 man page](#)) to do a little math. I suspect you can just do this by hand, but the example shows another pipe.

```
#+BEGIN_SRC sh
# The 3 results from the word counts above
echo "1116 + 1930 + 153" | bc
# 3199

# That adds up to more than the number of lines in the file
wc -l holes.csv
# 3047 holes.csv
#+END_SRC
```

```
--:**- 8-more-emacs-and-script-files.org 30% L158 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: write error
researchtools@ubuntu:~/class/8$ egrep ODP holes.csv | wc -l
1930
researchtools@ubuntu:~/class/8$ egrep IODP holes.csv | wc -l
153
researchtools@ubuntu:~/class/8$ echo "1116 + 1930 + 153" | bc
3199
researchtools@ubuntu:~/class/8$
```

```
--U:**- *shell* Bot L952 (Shell:run)-----
```

We have a slight problem here in that the counts are not adding up. The string ODP is found in both the ODP and IODP entries. Here I am using the "binary calculator" ([bc.1 man page](#)) to do a little math. I suspect you can just do this by hand, but the example shows another pipe.

```
#+BEGIN_SRC sh
# The 3 results from the word counts above
echo "1116 + 1930 + 153" | bc
# 3199

# That adds up to more than the number of lines in the file
wc -l holes.csv
# 3047 holes.csv
#+END_SRC
```

```
--:**- 8-more-emacs-and-script-files.org 30% L158 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
^A
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: write error
researchtools@ubuntu:~/class/8$ egrep ODP holes.csv | wc -l
1930
researchtools@ubuntu:~/class/8$ egrep IODP holes.csv | wc -l
153
researchtools@ubuntu:~/class/8$ echo "1116 + 1930 + 153" | bc
3199
researchtools@ubuntu:~/class/8$ echo "1116 + 1930 + 153"
1116 + 1930 + 153
researchtools@ubuntu:~/class/8$ egrep ODP holes.csv
```

-U:***- *shell* Bot L954 (Shell:run)-----

```
^A
echo "1116 + 1930 + 153" | bc
# 3199


# That adds up to more than the number of lines in the file
wc -l holes.csv
# 3047 holes.csv
#+END_SRC

We can use the "," that precedes the ODP to help avoid the IODP.

#+BEGIN_SRC sh
egrep 'ODP' holes.csv | wc -l
# 1930

egrep ',ODP' holes.csv | wc -l
# 1777
#+END_SRC
```

-:***- 8-more-emacs-and-script-files.org 33% L172 (Org)-----

 Completed

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
313,1,C,IODP,-73.616619,39.639419,32,
313,2,D,IODP,-73.497266,39.565720,35,
313,2,E,IODP,-73.496050,39.567083,35,
313,2,F,IODP,-73.492317,39.571200,34,
313,3,A,IODP,-73.413238,39.519533,34,
313,3,B,IODP,-73.418144,39.514094,34,
313,3,C,IODP,-73.408025,39.525037,34,
researchtools@ubuntu:~/class/8$
```

-U:*** *shell* Bot L2878 (Shell:run)-----

```
^ echo "1116 + 1930 + 153" | bc
# 3199
```


```
# That adds up to more than the number of lines in the file
wc -l holes.csv
# 3047 holes.csv
#+END_SRC
```

We can use the "," that precedes the ODP to help avoid the IODP.

```
#+BEGIN_SRC sh
egrep 'ODP' holes.csv | wc -l
# 1930

egrep ',ODP' holes.csv | wc -l
# 1777
#+END_SRC
```

-:*** 8-more-emacs-and-script-files.org 33% L172 (Org)-----

 End of buffer

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
311,U1329,C,IODP,-126.6787,48.7896,946.4,186.16
311,U1329,D,IODP,-126.6786,48.7894,946.4,1.03
311,U1329,E,IODP,-126.6786,48.7898,945.5,37.74
312,1256,D,IODP,-91.9343,6.7365,3634.7,47.32
313,1,A,IODP,-73.621646,39.634091,32,
313,1,B,IODP,-73.620800,39.635066,32,
313,1,C,IODP,-73.616619,39.639419,32,
313,2,D,IODP,-73.497266,39.565720,35,
313,2,E,IODP,-73.496050,39.567083,35,
313,2,F,IODP,-73.492317,39.571200,34,
313,3,A,IODP,-73.413238,39.519533,34,
313,3,B,IODP,-73.418144,39.514094,34,
313,3,C,IODP,-73.408025,39.525037,34,
researchtools@ubuntu:~/class/8$ egrep 'ODP' holes.csv | wc -l
1930
researchtools@ubuntu:~/class/8$
```

```
-U:***- *shell* Bot L2887 (Shell:run)-----
```

```
echo "1116 + 1930 + 153" | bc
# 3199

# That adds up to more than the number of lines in the file
wc -l holes.csv
# 3047 holes.csv
#+END_SRC

We can use the "," that precedes the ODP to help avoid the IODP.

#+BEGIN_SRC sh
egrep 'ODP' holes.csv | wc -l
# 1930

egrep ',ODP' holes.csv | wc -l
# 1777
#+END_SRC
```

```
--:***- 8-more-emacs-and-script-files.org 33% L169 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
311,U1329,E,IODP,-126.6786,48.7898,945.5,37.74
312,1256,D,IODP,-91.9343,6.7365,3634.7,47.32
313,1,A,IODP,-73.621646,39.634091,32,
313,1,B,IODP,-73.620800,39.635066,32,
313,1,C,IODP,-73.616619,39.639419,32,
313,2,D,IODP,-73.497266,39.565720,35,
313,2,E,IODP,-73.496050,39.567083,35,
313,2,F,IODP,-73.492317,39.571200,34,
313,3,A,IODP,-73.413238,39.519533,34,
313,3,B,IODP,-73.418144,39.514094,34,
313,3,C,IODP,-73.408025,39.525037,34,
researchtools@ubuntu:~/class/8$ egrep ',ODP,' holes.csv | wc -l
1930
researchtools@ubuntu:~/class/8$ egrep ',ODP,' holes.csv | wc -l
1777
researchtools@ubuntu:~/class/8$
```

```
-U:***- *shell* Bot L2889 (Shell:run)-----
```

```
echo "1116 + 1930 + 153" | bc
# 3199

# That adds up to more than the number of lines in the file
wc -l holes.csv
# 3047 holes.csv
#+END_SRC

We can use the "," that precedes the ODP to help avoid the IODP.

#+BEGIN_SRC sh
egrep 'ODP' holes.csv | wc -l
# 1930

egrep ',ODP' holes.csv | wc -l
# 1777
#+END_SRC
```

```
--:***- 8-more-emacs-and-script-files.org 33% L169 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
312 cut -d, -f4 holes.csv | head
313 cut -d, -f4 holes.csv | uniq
314 egrep DSDP holes.csv | wc -l
315 egrep DSDP holes.csv | head
316 egrep ODP holes.csv | wc -l
317 egrep IODP holes.csv | wc -l
318 echo "1116 + 1930 + 153" | bc
319 echo "1116 + 1930 + 153"
320 egrep ODP holes.csv
321 egrep 'ODP' holes.csv | wc -l
322 egrep ',ODP,' holes.csv | wc -l
323 history
```

researchtools@ubuntu:~/class/8\$!318

echo "1116 + 1930 + 153" | bc

3199

researchtools@ubuntu:~/class/8\$

-U:***- *shell* Bot L3216 (Shell:run)-----

echo "1116 + 1930 + 153" | bc

3199

That adds up to more than the number of lines in the file

wc -l holes.csv

3047 holes.csv

#+END_SRC

We can use the "," that precedes the ODP to help avoid the IODP.

#+BEGIN_SRC sh

egrep 'ODP' holes.csv | wc -l

1930

egrep ',ODP,' holes.csv | wc -l

1777

#+END_SRC

-:***- 8-more-emacs-and-script-files.org 33% L169 (Org)-----

Absolute reference cannot be expanded

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: write error
researchtools@ubuntu:~/class/8$ egrep ODP holes.csv | wc -l
1930
researchtools@ubuntu:~/class/8$ egrep IODP holes.csv | wc -l
153
researchtools@ubuntu:~/class/8$ echo "1116 + 1930 + 153" | bc
3199
researchtools@ubuntu:~/class/8$ echo "1116 + 1930 + 153"
1116 + 1930 + 153
researchtools@ubuntu:~/class/8$ egrep ODP holes.csv
100,625,A,ODP,-87.16,28.8317,889,18.8
100,625,B,ODP,-87.16,28.8317,889,222.22
100,625,C,ODP,-87.16,28.8317,889,39.36
```

-U:*** *shell* 26% L950 (Shell:run)-----

```
echo "1116 + 1930 + 153" | bc
# 3199

# That adds up to more than the number of lines in the file
wc -l holes.csv
# 3047 holes.csv
#+END_SRC

We can use the "," that precedes the ODP to help avoid the IODP.

#+BEGIN_SRC sh
egrep 'ODP' holes.csv | wc -l
# 1930

egrep ',ODP' holes.csv | wc -l
# 1777
#+END_SRC
```

-:*** 8-more-emacs-and-script-files.org 33% L169 (Org)-----

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
314  egrep DSDP holes.csv | wc -l
315  egrep DSDP holes.csv | head
316  egrep ODP holes.csv | wc -l
317  egrep IODP holes.csv | wc -l
318  echo "1116 + 1930 + 153" | bc
319  echo "1116 + 1930 + 153"
320  egrep ODP holes.csv
321  egrep 'ODP' holes.csv | wc -l
322  egrep ',ODP,' holes.csv | wc -l
323  history
researchtools@ubuntu:~/class/8$ !318
echo "1116 + 1930 + 153" | bc
3199
researchtools@ubuntu:~/class/8$
```

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

-U:*** *shell* Bot L3216 (Shell:run)-----

```
^ echo "1116 + 1930 + 153" | bc
# 3199

# That adds up to more than the number of lines in the file
wc -l holes.csv
# 3047 holes.csv
#+END_SRC

We can use the "," that precedes the ODP to help avoid the IODP.

#+BEGIN_SRC sh
egrep 'ODP' holes.csv | wc -l
# 1930

egrep ',ODP' holes.csv | wc -l
# 1777
#+END_SRC
```

--:*** 8-more-emacs-and-script-files.org 33% L169 (Org)-----

Mark set

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
313 cut -d, -f4 holes.csv | uniq
314 egrep DSDP holes.csv | wc -l
315 egrep DSDP holes.csv | head
316 egrep ODP holes.csv | wc -l
317 egrep IODP holes.csv | wc -l
318 echo "1116 + 1930 + 153" | bc
319 echo "1116 + 1930 + 153"
320 egrep ODP holes.csv
321 egrep 'ODP' holes.csv | wc -l
322 egrep ',ODP,' holes.csv | wc -l
323 history
```

researchtools@ubuntu:~/class/8\$!318

echo "1116 + 1930 + 153" | bc

3199

researchtools@ubuntu:~/class/8\$ <menu-bar> <signals> <break>

researchtools@ubuntu:~/class/8\$

-U:***- *shell* Bot L3217 (Shell:run)-----

echo "1116 + 1930 + 153" | bc

3199

That adds up to more than the number of lines in the file

wc -l holes.csv

3047 holes.csv

#+END_SRC

We can use the "," that precedes the ODP to help avoid the IODP.

#+BEGIN_SRC sh

egrep 'ODP' holes.csv | wc -l

1930

egrep ',ODP,' holes.csv | wc -l

1777

#+END_SRC

-:***- 8-more-emacs-and-script-files.org 33% L169 (Org)-----

menu-bar signals break

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
314 egrep DSDP holes.csv | wc -l
315 egrep DSDP holes.csv | head
316 egrep ODP holes.csv | wc -l
317 egrep IODP holes.csv | wc -l
318 echo "1116 + 1930 + 153" | bc
319 echo "1116 + 1930 + 153"
320 egrep ODP holes.csv
321 egrep 'ODP' holes.csv | wc -l
322 egrep ',ODP,' holes.csv | wc -l
323 history
researchtools@ubuntu:~/class/8$ !318
echo "1116 + 1930 + 153" | bc
3199
researchtools@ubuntu:~/class/8$ <menu-bar> <signals> <break>
researchtools@ubuntu:~/class/8$ C-c C-c
researchtools@ubuntu:~/class/8$
```

-U:*** *shell* Bot L3218 (Shell:run)-----

```
^ echo "1116 + 1930 + 153" | bc
# 3199

# That adds up to more than the number of lines in the file
wc -l holes.csv
# 3047 holes.csv
#+END_SRC

We can use the "," that precedes the ODP to help avoid the IODP.

#+BEGIN_SRC sh
egrep 'ODP' holes.csv | wc -l
# 1930

egrep ',ODP' holes.csv | wc -l
# 1777
#+END_SRC
```

-:*** 8-more-emacs-and-script-files.org 33% L169 (Org)-----

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
317  egrep IODP holes.csv | wc -l
318  echo "1116 + 1930 + 153" | bc
319  echo "1116 + 1930 + 153"
320  egrep ODP holes.csv
321  egrep 'ODP' holes.csv | wc -l
322  egrep ',ODP,' holes.csv | wc -l
323  history
researchtools@ubuntu:~/class/8$ !318
echo "1116 + 1930 + 153" | bc
3199
researchtools@ubuntu:~/class/8$ <menu-bar> <signals> <break>
researchtools@ubuntu:~/class/8$ C-c C-c
researchtools@ubuntu:~/class/8$ egrep Program holes.csv
researchtools@ubuntu:~/class/8$ egrep Program holes.csv
Expedition,Site,Hole,Program,Longitude,Latitude,Water Depth (m),Core Recovered (m)
researchtools@ubuntu:~/class/8$ cut -d, -f5-6
```

```
-U:*** *shell* Bot L3221 (Shell:run)-----
```

Gnuplot works most easily with files that have space delimited rather than comma delimited text data values. We need to pull out the longitude and latitude values from the holes.csv file. We can start back with the cut command that we used before. This time we will give it two different fields in the csv to print with "-f5-6". This means we are asking for fields 5 through 6. We could also have said "-f5,6", which would be fields 5 and 6.

```
#+BEGIN_SRC sh
cut -d, -f5-6 holes.csv | head
#+END_SRC
```

```
#+BEGIN_EXAMPLE
Longitude,Latitude
-92.1833,25.8583
-92.0587,23.0455
```

```
--:*** 8-more-emacs-and-script-files.org 39% L198 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
-126.6785,48.7895
-126.6787,48.7896
-126.6787,48.7896
-126.6786,48.7894
-126.6786,48.7898
-91.9343,6.7365
-73.621646,39.634091
-73.620800,39.635066
-73.616619,39.639419
-73.497266,39.565720
-73.496050,39.567083
-73.492317,39.571200
-73.413238,39.519533
-73.418144,39.514094
-73.408025,39.525037
```

researchtools@ubuntu:~/class/8\$

-U:*** *shell* Bot L6269 (Shell:run)-----

Gnuplot works most easily with files that have space delimited rather than comma delimited text data values. We need to pull out the longitude and latitude values from the holes.csv file. We can start back with the cut command that we used before. This time we will give it two different fields in the csv to print with "-f5-6". This means we are asking for fields 5 through 6. We could also have said "-f5,6", which would be fields 5 and 6.

```
#+BEGIN_SRC sh
cut -d, -f5-6 holes.csv | head
#+END_SRC
```

```
#+BEGIN_EXAMPLE
Longitude, Latitude
-92.1833, 25.8583
-92.0587, 23.0455
```

-:*** 8-more-emacs-and-script-files.org 39% L198 (Org)-----

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
-73.620800,39.635066
-73.616619,39.639419
-73.497266,39.565720
-73.496050,39.567083
-73.492317,39.571200
-73.413238,39.519533
-73.418144,39.514094
-73.408025,39.525037
researchtools@ubuntu:~/class/8$ egrep -v Longitude holes.csv | head
1,1,,DSDP,-92.1833,25.8583,2827,50
1,2,,DSDP,-92.0587,23.0455,3572,13
1,3,,DSDP,-92.0433,23.03,3747,47
1,4,,DSDP,-73.792,24.478,5319,15
1,4,A,DSDP,-73.792,24.478,5319,5.8
1,5,,DSDP,-73.641,24.7265,5354,6.4
1,5,A,DSDP,-73.641,24.7265,5354,1.8
```

```
-U:*** *shell* 65% L6269 (Shell:run)-----
^ The output above is pretty close to being usable, but we have a ","
characters between each longitude and latitude. We can use the
tr (translate) command to exchange the "," for a " " (space).
Make sure to place the =tr= after the =cut= command or cut
will not be able to tell the comma separated fields apart.
```

```
#+BEGIN_SRC sh
egrep -v Longitude holes.csv | cut -d, -f5-6 | tr "," " " | head
#+END_SRC
```

```
#+BEGIN_EXAMPLE
-92.1833 25.8583
-92.0587 23.0455
-92.0433 23.03
-73.792 24.478
-73.792 24.478
-73.641 24.7265
```

```
--:*** 8-more-emacs-and-script-files.org 47% L245 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: writing output: Broken pipe
egrep: write error
researchtools@ubuntu:~/class/8$
```

-U:**- *shell* Bot L9100 (Shell:run)-----

The output above is pretty close to being usable, but we have a "," characters between each longitude and latitude. We can use the [tr](#) (translate) command to exchange the "," for a " " (space). Make sure to place the =tr= after the =cut= command or cut will not be able to tell the comma separated fields apart.

```
#+BEGIN_SRC sh
egrep -v Longitude holes.csv | cut -d, -f5-6 | tr "," " " | head
#+END_SRC
```

```
#+BEGIN_EXAMPLE
-92.1833 25.8583
-92.0587 23.0455
-92.0433 23.03
-73.792 24.478
-73.792 24.478
-73.641 24.7265
```

--:**- 8-more-emacs-and-script-files.org 47% L245 (Org)-----

Mark set

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
egrep: write error
researchtools@ubuntu:~/class/8$ egrep -v Longitude holes.csv | cut -d, -f5-6 | tr ", " " " | head
-92.1833 25.8583
-92.0587 23.0455
-92.0433 23.03
-73.792 24.478
-73.792 24.478
-73.641 24.7265
-73.641 24.7265
-67.6477 30.8398
-67.6477 30.8398
-68.2967 30.134
tr: write error: Broken pipe
tr: write error
cut: write error: Broken pipe
researchtools@ubuntu:~/class/8$
```

```
-U:*** *shell* Bot L9114 (Shell:run)-----
The output above is pretty close to being usable, but we have a ", "
characters between each longitude and latitude. We can use the
tr (translate) command to exchange the ", " for a " " (space).
Make sure to place the =tr= after the =cut= command or cut
will not be able to tell the comma separated fields apart.
```

```
#+BEGIN_SRC sh
egrep -v Longitude holes.csv | cut -d, -f5-6 | tr ", " " " | head
#+END_SRC
```

```
#+BEGIN_EXAMPLE
-92.1833 25.8583
-92.0587 23.0455
-92.0433 23.03
-73.792 24.478
-73.792 24.478
-73.641 24.7265
```

```
--:*** 8-more-emacs-and-script-files.org 47% L245 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
tr: write error: Broken pipe
tr: write error
cut: write error: Broken pipe
researchtools@ubuntu:~/class/8$ egrep -v Longitude holes.csv | cut -d, -f5-6 | tr "," " " > xy.dat
researchtools@ubuntu:~/class/8$ head xy.dat
-92.1833 25.8583
-92.0587 23.0455
-92.0433 23.03
-73.792 24.478
-73.792 24.478
-73.641 24.7265
-73.641 24.7265
-67.6477 30.8398
-67.6477 30.8398
-68.2967 30.134
researchtools@ubuntu:~/class/8$
```

```
-U:*** *shell* Bot L9126 (Shell:run)-----
```

```
# You output may be different depending on the files you have in your
# current directory
cat listing
#+END_SRC

#+BEGIN_EXAMPLE
ls -l
total 124
-rw-r--r-- 1 researchtools researchtools 125861 2011-09-22 04:46 holes.csv
#+END_EXAMPLE
```

Now that you know how to redirect the output to a file, send the results of the chain of pipes consisting of =egrep=, =cut=, and =tr= to the file "xy.dat".

```
#+BEGIN_SRC sh
egrep -v Longitude holes.csv | cut -d, -f5-6 | tr "," " " > xy.dat
```

```
---:*** 8-more-emacs-and-script-files.org 56% L278 (Org)-----
```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



G N U P L O T

Version 4.4 patchlevel 2

last modified Wed Sep 22 12:10:34 PDT 2010

System: Linux 2.6.38-11-generic

Copyright (C) 1986-1993, 1998, 2004, 2007-2010

Thomas Williams, Colin Kelley and many others

gnuplot home: <http://www.gnuplot.info>

faq, bugs, etc: type "help seeking-assistance"

immediate help: type "help"

plot window: hit 'h'

Terminal type set to 'wxt'

gnuplot> plot 'xy.dat'

-U:**- *shell* Bot L9142 (Shell:run)-----

You output may be different depending on the files you have in your

current directory

cat listing

#+END_SRC

#+BEGIN_EXAMPLE

ls -l

total 124

-rw-r--r-- 1 researchtools researchtools 125861 2011-09-22 04:46 holes.csv

#+END_EXAMPLE

Now that you know how to redirect the output to a file, send the results of the chain of pipes consisting of =egrep=, =cut=, and =tr= to the file "xy.dat".

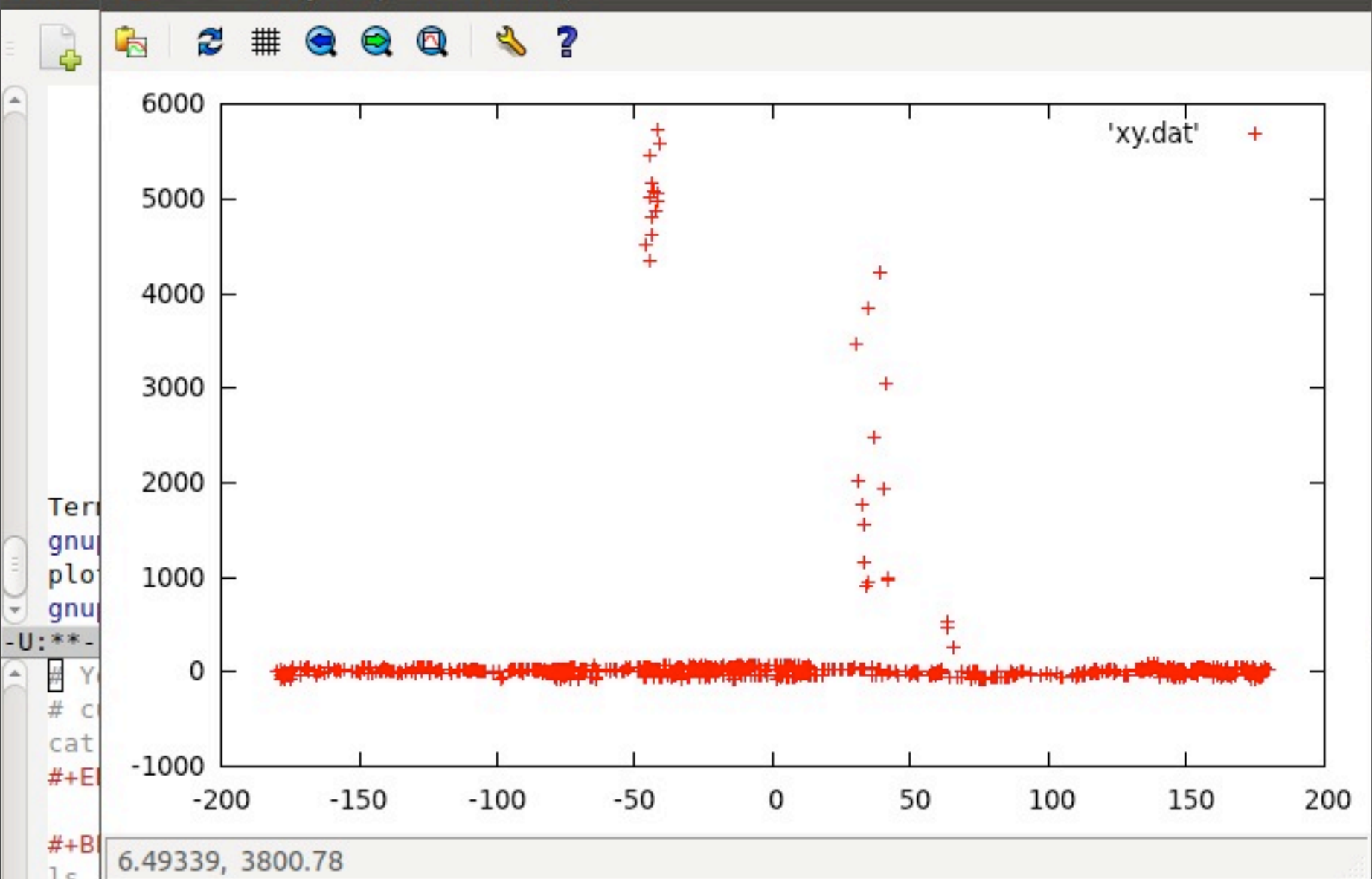
#+BEGIN_SRC sh

egrep -v Longitude holes.csv | cut -d, -f5-6 | tr ", " " " > xy.dat

-:***- 8-more-emacs-and-script-files.org 56% L278 (Org)-----

emacs23@ubuntu

File Gnuplot (window id : 0)



```

6.49339, 3800.78
ls
total 124
-rw-r--r-- 1 researchtools researchtools 125861 2011-09-22 04:46 holes.csv
#+END_EXAMPLE

```

Now that you know how to redirect the output to a file, send the results of the chain of pipes consisting of `=egrep=`, `=cut=`, and `=tr=` to the file "xy.dat".

```

#+BEGIN_SRC sh
egrep -v Longitude holes.csv | cut -d, -f5-6 | tr ", " " " > xy.dat

```

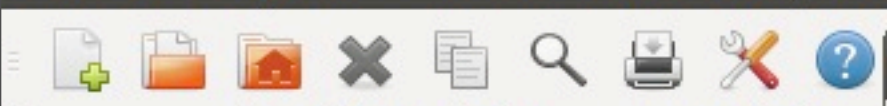
```

--:***- 8-more-emacs-and-script-files.org 56% L278 (Org)-

```


emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



immediate help: type "help"
plot window: hit 'h'

```
Terminal type set to 'wxt'  
gnuplot> plot 'xy.dat'  
plot 'xy.dat'  
gnuplot> set yrange [-90:90]  
set yrange [-90:90]  
^  
Unrecognized option. See 'help'
```

```
gnuplot> set yrange [-90:90]  
set yrange [-90:90]  
gnuplot> plot 'xy.dat'  
plot 'xy.dat'  
gnuplot>
```

-U:*** *shell* Bot L9153 (Shell:

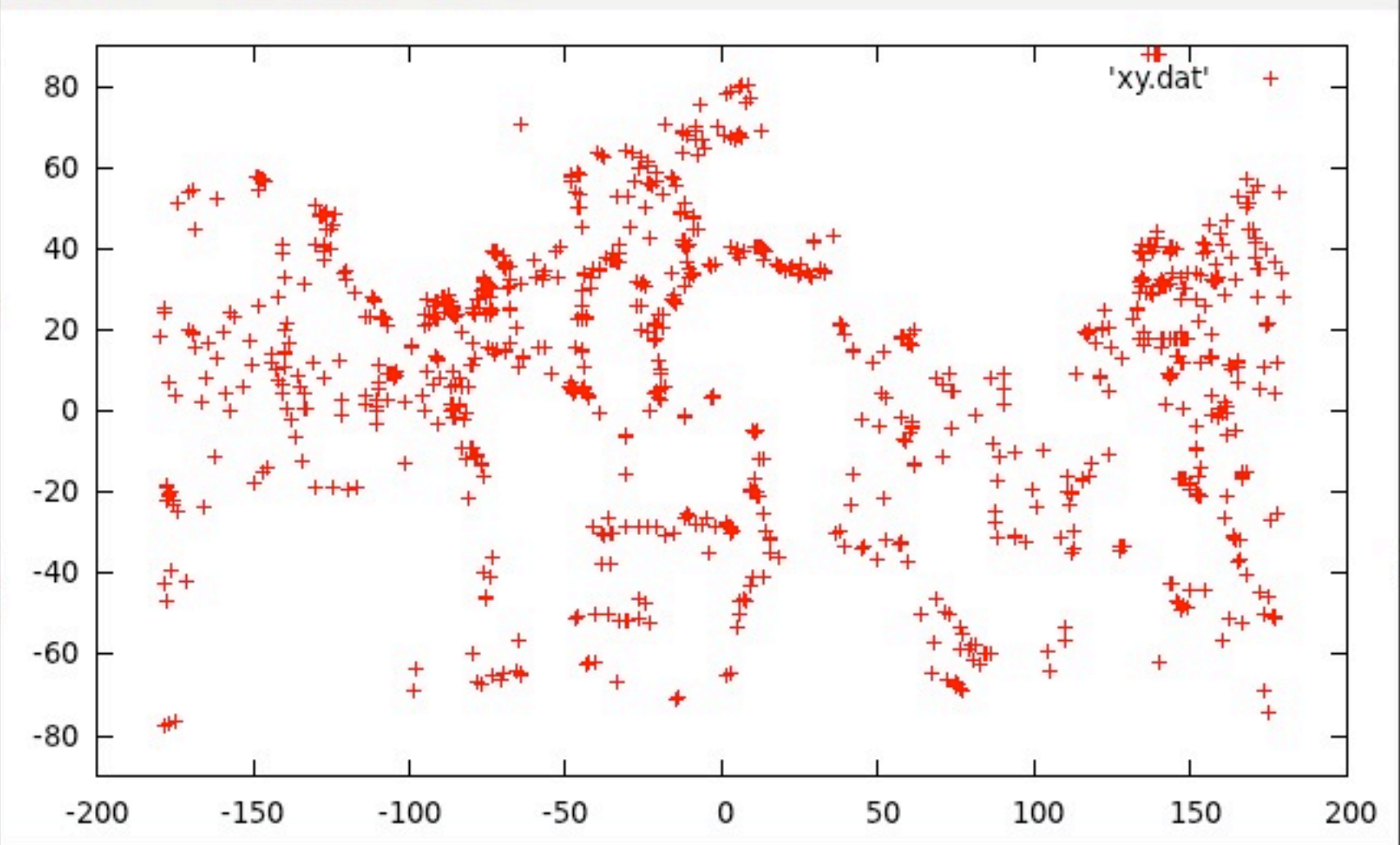
```
# You output may be different depending  
# current directory  
cat listing  
#+END_SRC  
  
#+BEGIN_EXAMPLE  
ls -l  
total 124  
-rw-r--r-- 1 researchtools researchtools 123001 2011-09-22 01:10 holes.csv  
#+END_EXAMPLE
```

Now that you know how to redirect the output to a file, send the results of the chain of pipes consisting of =egrep=, =cut=, and =tr= to the file "xy.dat".

```
#+BEGIN_SRC sh  
egrep -v Longitude holes.csv | cut -d, -f5-6 | tr ", " " " > xy.dat
```

---:***- 8-more-emacs-and-script-files.org 56% L278 (Org)-----

Gnuplot (window id : 0)



-204.196, -6.42568

emacs23@ubuntu

File Edit Options Buffers Tools Complete In/Out Signals Help



```
plot 'xy.dat'
gnuplot> set yrange [-90:90]
set yrange [-90:90]
      ^
Unrecognized option.  See 'help set'.

gnuplot> set yrange [-90:90]
set yrange [-90:90]
gnuplot> plot 'xy.dat'
plot 'xy.dat'
gnuplot> quit
quit
researchtools@ubuntu:~/class/8$ GMT minmax xy.dat
GMT minmax xy.dat
xy.dat: N = 3046      <-179.5558/179.738>      <-77.4413/5736.4>
researchtools@ubuntu:~/class/8$
```

```
-U:***- *shell* Bot L9158 (Shell:run)-----
```

```
# You output may be different depending on the files you have in your
# current directory
cat listing
#+END_SRC

#+BEGIN_EXAMPLE
ls -l
total 124
-rw-r--r-- 1 researchtools researchtools 125861 2011-09-22 04:46 holes.csv
#+END_EXAMPLE

Now that you know how to redirect the output to a file, send the
results of the chain of pipes consisting of =egrep=, =cut=,
and =tr= to the file "xy.dat".

#+BEGIN_SRC sh
egrep -v Longitude holes.csv | cut -d, -f5-6 | tr ", " " " > xy.dat
```

```
---:***- 8-more-emacs-and-script-files.org 56% L278 (Org)-----
```



```
schwehrvm or
researchtools
File Edit View Search
researchtools@ubuntu:~$
[sudo] password for researchtools:
Reading package lists...
Building dependency tree...
Reading state information...
curl is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 0 not installed.
researchtools@ubuntu:~$
```

schwehrvm ▾
Welcome to ChatZilla!

Index of /~schwehr/rt - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Index of /~schwehr/rt

http://vislab-ccom.unh.edu/~schwehr/rt/

Most Visited ▾ Getting Started Latest Headlines ▾

NOTE: The table has been re-ordered so that the newest items are at the top.

No.	Date	Title/Notes	Audio/Podcast
8.	2011-09-22	More emacs and script files [org]	[mp3] [m4a] [ogg]
HW 2	2011-09-20	Homework 2: shell and org-mode due Thurs 2011-09-22 5PM EDT [org]	
7.	2011-09-20	Emacs and org-mode [org]	[mp3] [m4a] [ogg]
6.	2011-09-15	KeyPassX and Dropbox [org]	[mp3] [m4a] [ogg]
5.	2011-09-13	File types, Intro to Emacs, beginning scripts [org]	[mp3] [m4a] [ogg]
4.	2011-09-08	VMWare Ubuntu Image (Coming soon)	[mp3] [m4a] [ogg]
3.	2011-09-06	Wiki editing, Weather Demo, Basic Command Line [org]	[mp3] [m4a] [ogg]
2.	2011-09-01	IRC, Wiki, Basic Shell [org]	[mp3] [m4a] [ogg]
1.	2011-08-30	Introduction [org]	[mp3] [m4a] [ogg]

schwehrvm on #unhresearchtools (No Mode): No Topic

ChatZilla IRC Edit View Help

goatbar
ben
Bwelton
kjerram
mohammad
schwehrvm

URL <irc://researchtools.ccom.nh> Mode **no mode**
Topic <none>

6.0.1/20110830202826]")

<nhasan> bye

|<-- prasadh has left researchtools.ccom.nh (Client closed connection)

|<-- nhasan has left researchtools.ccom.nh ("ChatZilla 0.9.87 [Firefox 6.0.1/20110830202826]")

|<-- sthein has left researchtools.ccom.nh ("ChatZilla 0.9.87 [Firefox 6.0.1/20110830202826]")

<schwehrvm> ttfn

|<-- tnguyen has left researchtools.ccom.nh (Ping timeout: 20 seconds)

client researchtools.ccom.nh #unhresearchtools

schwehrvm

Welcome to ChatZilla!