Introduction to Emacs

Emacs is a very powerful text editing environment. It is in the nature that I use writing this
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Emacs and org-mode

2011-Sep-20
Kurt Schwehr
http://schwehr.org

UNH CCOM/JHC
Emacs and org-mode
**Introduction**

The goal of this UNH course is to give students some understanding of R and work on it during their career. I am hoping to get this wrapped together with CCOM. I am releasing all course material under a Creative Commons License, so that students can pass copies to their co-workers. 2011 is the first year that the course is being taught in this style. Please email me if you find any typos.

**NOTE:** The order was flipped on 2012-June-26 to have the beginning at the top.

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Video</th>
<th>Present</th>
<th>Blog</th>
<th>Audio</th>
<th>Title/Notes</th>
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<tr>
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<td>YouTube</td>
<td>pdf key</td>
<td>comment</td>
<td>mp3</td>
<td>Introduction</td>
</tr>
<tr>
<td>02</td>
<td>2011-09-01</td>
<td>YouTube</td>
<td>pdf key</td>
<td>comment</td>
<td>mp3</td>
<td>IRC, Wiki, Basic Shell</td>
</tr>
<tr>
<td>03</td>
<td>2011-09-06</td>
<td>YouTube</td>
<td>pdf key</td>
<td>comment</td>
<td>mp3</td>
<td>Wiki editing, Weather Demo, Command Line</td>
</tr>
<tr>
<td>04</td>
<td>2011-09-08</td>
<td>YouTube</td>
<td>pdf key</td>
<td>comment</td>
<td>mp3</td>
<td>VMWare Ubuntu Image</td>
</tr>
<tr>
<td>05</td>
<td>2011-09-13</td>
<td>YouTube</td>
<td>pdf key</td>
<td>comment</td>
<td>mp3</td>
<td>File types, Emacs intro, beginning scripts</td>
</tr>
<tr>
<td>06</td>
<td>2011-09-15</td>
<td>Coming soon</td>
<td>pdf key</td>
<td>comment</td>
<td>mp3</td>
<td>KeePassX and Dropbox</td>
</tr>
<tr>
<td>07</td>
<td>2011-09-20</td>
<td>Coming soon</td>
<td>soon</td>
<td>comment</td>
<td>mp3</td>
<td>Emacs and org-mode</td>
</tr>
</tbody>
</table>
Rob Braswell taught class 25 on R for statistics. Rob is an Affiliate Faculty in EOS at UNH and works at Applied Geographics.

**Introduction**

The goal of this class is to start your career. I am an Associate Professor of Computer Science at CCOM. I am not going to give you a single piece of advice that will make you successful. However, if you follow these directions, you will be better prepared for your future.

**NOTE:** The following is a joke.

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Type</th>
<th>Key</th>
<th>Comment</th>
<th>Type</th>
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<td>2011-09-13</td>
<td>YouTube</td>
<td>mp4</td>
<td></td>
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<tr>
<td>02</td>
<td>2011-09-15</td>
<td>Coming soon</td>
<td>pdf key</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>2011-09-20</td>
<td>Coming soon</td>
<td>pdf key</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*client* freenode

User mode for kurtvm is now +i

IRC server: irc://freenode/
This is a UNH CCOM computer system. UNH CCOM computer systems are provided for the processing of authorized information only. All data contained on UNH CCOM computer systems are owned by UNH CCOM and may be monitored, intercepted, recorded, read, copied, or captured in any manner and disclosed in any manner by authorized personnel. THERE IS NO RIGHT OF PRIVACY IN THIS SYSTEM. System personnel may give to law enforcement officials any potential evidence of crime found on UNH CCOM computer systems. USE OF THIS SYSTEM BY ANY USER, AUTHORIZED OR UNAUTHORIZED, CONSTITUTES CONSENT TO THIS MONITORING, INTERCEPTION, RECORDING, READING, COPYING, OR CAPTURING AND DISCLOSURE.

**WARNING**

schwehr@researchtools.com.nh's password: Your password will expire in 11 days.

Welcome to Ubuntu 11.04 (GNU/Linux 2.6.38-8-generic-pae i686)

* Documentation: https://help.ubuntu.com/

System information as of Sat Jun 30 17:53:23 EDT 2012

System load: 0.0 Processes: 93
Usage of /home: 1.5% of 21.54GB Users logged in: 0
Memory usage: 54% IP address for eth0: 192.168.2.28
Swap usage: 0%

Graph this data and manage this system at https://landscape.canonical.com/

New release 'oneiric' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Tue Jun 26 21:57:54 2012 from 192.168.12.150

on pages online man

I have a second computer next to you when working. One of the many ways that we advantage of that computer by using it to view "man pages". Ubuntu has the man pages online "Ubuntu 11.04" during this class, but man pages for other versions should be very similar.
have a second computer next to you when working. One of the many ways to advantage of that computer by using it to view "man pages". Ubuntu has the man pages online. "Ubuntu 11.04" during this class, but man pages for other versions should be very similar.
schwehr@researchtools:~

17:55 -!- Irssi: Looking up researchtools.com.nh
17:55 -!- Irssi: Connecting to researchtools.com.nh [192.168.2.28] port 6667
17:55 -!- Irssi: Connection to researchtools.com.nh established
17:55 -!- Welcome to the Internet Relay Network
schwehr@researchtools.com.nh
17:55 -!- Your host is irc.debian.org, running version ngircd-15
 (486/pc/linux-gnu)
17:55 -!- This server has been started Sun Sep 25 2011 at 16:05:06 (EDT)
17:55 -!- irc.debian.org ngircd-15 aios bliklmpnoostv
17:55 -!- RFC2812 CASEMAPPING=ascii PREFIX=(ov)+ CHANTYPES=#&+
CHANMODS=b1,k,l,immPst CHANLIMIT=#&+;10 are supported on this server
17:55 -!- CHANNELLEN=50 NICKLEN=9 TOPICLEN=490 AWAYLEN=127 KICKLEN=400 PENALTY
are supported on this server
17:55 -!- There are 2 users and 0 services on 1 servers
17:55 -!- 2 channels formed
17:55 -!- I have 2 users, 0 services and 0 servers
17:55 -!- 2 19 Current local users: 2, Max: 19
17:55 -!- 2 19 Current global users: 2, Max: 19
17:55 -!- irc.debian.org message of the day
17:55 -!- * HELLO *
17:55 -!- Welcome on our new IRC server, running on: *
17:55 -!- Debian GNU/Linux (www.debian.org)
17:55 -!- * *)
17:55 -!- End of MOTD command
17:55 -!- Mode change [+i] for user schwehr_
17:55 -!- Irssi: Your nick is owned by Unknown [~schwehr@researchtools.com.nh]

17:55 -!- schwehr (1) :researchtools (change with ^X)

/status)

Saturday, June 30, 12

Have a second computer next to you when working. One of the many ways to
advantage of that computer by using it to view "man pages". Ubuntu has the man pages online
"Ubuntu 11.04" during this class, but man pages for other versions should be very similar.
Class 7: Emacs and org-mode (DRAFT)

Contents

To log in to the IRC
IRC org-mode reference cards
IRC pages online
/Computer Online Books at UNH - Safari
Book at Ubuntu and Software
Which version of Linux?
Command line exploration of software on the system and available for installation
Software management - Synaptic
Installation to Emacs
Global setup
Moving files
IRC org-mode - outlining
Viewing the results?
Examples and sample code
IRC strategies for note taking
IRC - shell and org-mode

Make sure to not use "researchtools" as your login name for the IRC channel!
Class 7: Emacs and org-mode (DRAFT)

Table of Contents

- Reminder to log in to the IRC
- Introduction
- Emacs and org-mode reference cards
- Ubuntu man pages online
- Technical/Computer Online Books at UNH - Safari
- A quick look at Ubuntu and Software
  - Which version of Linux?
  - Command line exploration of software on the system and available for install
  - Graphical software management - Synaptic
- Introduction to Emacs
  - Initial setup
  - Opening files
  - Basic org-mode - outlining
  - Seeing the results?
  - Tables
  - Examples and source code
- Alternative strategies for note taking
- HOMEWORK - shell and org-mode

Reminder to log in to the IRC

Please only use the Ubuntu virtual machine in class today. There is too much confusion when switching between Windows and Ubuntu.

Make sure to use "researchtools" as your login name for the IRC channel!
Welcome to the Ubuntu Manpage Repository

This site contains hundreds of thousands of dynamically generated manuals, extracted from every package of every supported version of Ubuntu, and updated on a daily basis. Traditionally, manpages are browsed on the command line. This project renders a subset of the manuals included in Ubuntu into an HTML, web-browsable format.

Navigating the Repository

- Browse the repository as a hierarchical file structure
- Use the search form at the top of every page
- Install the search engine plug-in for your browser
- Download the 'dman' shell script to run on a command line

Other Resources

You may also find the following Ubuntu documentation resources useful:
- Official Documentation maintained by the Ubuntu Documentation Team
- Community Documentation maintained by the Ubuntu Community
- Developer Documentation maintained by the Ubuntu Development Community
- Ubuntu Documentation Search indexes a number of unique Ubuntu web resources

http://manpages.ubuntu.com/manpages/natty
The Ubuntu Manpage Repository

Hundreds of thousands of dynamically generated manuals, extracted from the Ubuntu Manpage Repository by the Ubuntu Documentation Team, are browsed on the command line. This project renders all such manuals into an HTML, web-browsable format.

Sources

The following Ubuntu documentation resources are useful:

- manpages.ubuntu.com maintained by the Ubuntu Documentation Team
- manpage maintained by the Ubuntu Community
- manpage maintained by the Ubuntu Development Community
- manpage maintained by the Ubuntu web search engine

The Manpage repository indexes a number of unique Ubuntu web resources.
natty (1) minmax.1gmt.gz
Provided by: gmt-manpages_3.4.4-1_all

NAME
minmax - Find extreme values in data tables

SYNOPSIS
minmax [ files ] [ -C ] [ -D ] [ -H[nrec] ] [ -1dx/dy ] [ -L ]
[ -M[flag] ] [ -o ] [ -bi[s][n] ]

DESCRIPTION
minmax reads its standard input [or from files] and finds the extreme values in each of the columns. It recognizes NaNs and will print warnings if the number of columns vary from record to record. As an option, minmax will find the extent of the first two columns rounded up and down to the nearest multiple of dx/dy. This output will be in the form -Rw/e/s/n which can be used directly in the command line for other programs, or simply in column form.

xyzfile
ASCII [or binary, see -b] file(s) holding a fixed number of data columns.

OPTIONS

-C Report the min/max values per column in separate columns
[Default uses <min/max> format]

-D Sets longitude discontinuity to the Dateline (-180/+180)
[Default is Greenwich (0-360)]. Requires -L.

-H Input file(s) has Header record(s). Number of header records can be changed by editing your .gmtdefaults file. If used, GMT default is 1 header record.

-I Report the min/max of the first two columns to the nearest multiple of dx and dy, and output this in the form -Rw/e/s/n
NAME
minmax - Find extreme values in data tables

SYNOPSIS
minmax [ files ] [-C ] [ -EL|H|hcol ] [ -H[i|nrec] ] [ -l|p|dxf/dy/dz... ] [ -S|x|y ] [ -Tdx|col ] [ -tl|io ] [ -bi|s|d|D[ncol][c[yar]/...]] [ -fl|o|colinfo ] [ -mi|o|flag ]

DESCRIPTION
minmax reads its standard input [or from files] and finds the extreme values in each of the columns. It recognizes NaNs and will print warnings if the number of columns vary from record to record. As an option, minmax will find the extent of the first n columns rounded up and down to the nearest multiple of the supplied increments. By default, this output will be in the form -Rw/es/n which can be used directly in the command line for other programs (hence only dx and dy are needed), or the output will be in column form for as many columns as there are increments provided. A similar option (-T) will provide a -Tzmin/zmax/dx string for makeplt.

xyzfile
ASCII [or binary, see -b] file(s) holding a fixed number of data columns.

OPTIONS
-C Report the min/max values per column in separate columns [Default uses <min/max> format].
-E Returns the record whose column col contains the minimum (I) or maximum (h) value. Upper case (L|H) works on absolute value of the data. In case of multiple matches, only the first record is returned.
Technical/Computer Online Books at UNH - Safari

Safari Books Online provides technical books online. UNH has a subscription, so if you are a student, staff or faculty at UNH, you can get access to a wide range of technical books. If you are not at UNH and your job does not provide the service, you can sign up for a personal account. This can save you a lot of money over buying a large number of books. However, I do not think that you can take these with you off line and I still like "dead tree" books (aka the real thing).

- [https://blackboard.unh.edu](https://blackboard.unh.edu)
- Click "Library" Tab
- Click "Connect to Databases" Link - [http://www.library.unh.edu/researchtools/databases/index.shtml](http://www.library.unh.edu/researchtools/databases/index.shtml)
- Click "[S-T]"
- Click on "Safari Books Online"

You should now be able to get access to a very large number of books. Some books that might be useful for this lecture ""NOTE:"" I have not necessarily read these books.

- Ubuntu Linux
  - [Ubuntu: Up and Running](http://example.com) by Robin Nixon, O'Reilly, April, 2010.
  - [Beginning Ubuntu Linux, Fifth Edition](http://example.com) by Emilio Raggi; Keir Thomas; Trevor Parsons; Andy Channelle; Sander van Vugt, Apress, September 2010.

- Emacs
  - [Learning GNU Emacs, Third Edition](http://example.com) by Debra Cameron; James Elliott; Marc Loy; Eric S. Raymond; Bill Rosenblatt, Dec, 2004.
Safari Books Online is a digital library providing on-demand subscription access to thousands of learning resources.

- Resources from leading publishers.
- For technology, creative & business pros.
- Customize & organize your learning resources.

DEMO
Unless otherwise noted, access is limited to UNH faculty, students, staff and on-site visitors to the UNH Library.

Safari Books Online

provides access to the electronic versions of hundreds of technical books from the premier IT Publishers. The database content covers more than 20 categories, including Business Reference, Certification, Cisco, Creative Media, Database, Desktop Productivity, e-Business, Enterprise Computing, Java, Linux/Unix, Macintosh, .NET, Networking, Perl, Photoshop, Programming, Software Engineering, Web Administration, Web Authoring and Design, Web Development, Windows, Windows Administration, Windows Programming, and XML. The powerful Safari Tech Books Online search engine provides relevancy-ranked results for books and terms within the books; hit-lists of book chapters containing the search terms; keywords in context in the hit-list; complete tables of contents and indexes for each book for easy page-to-page browsing; charts, graphs, and other graphics in full image, just as originally published; and cut-and-paste code segments to save time and eliminate typos.

- Dates of Coverage: N/A
- Copyright: Safari Books Online
Search Results for: emacs

Books
(1302 Results)

Show: Books  Short Cuts

Sort By: Relevancy

1. Macintosh Terminal Pocket Guide
   By: Daniel J. Barrett
   Publisher: O'Reilly Media, Inc.
   Publication Date: 22-JUN-2012
   Insert Date: 19-JUN-2012
   Table of Contents  Start Reading

   Chapter Title: Emacs
   Emacs Name emacs -- stdin stdout - file -- opt
   --help --version Synopsis emacs [ options ] [ files]
   Emacs is an extremely powerful editing environment
   with ... language to define your own editing features.
   To run Emacs in a Terminal window

   More Results From This Book

2. Learning GNU Emacs, Third Edition
   By: Debra Cameron; James Elliott; Marc Loy; Eric S. Raymond; Bill Rosenblatt

   Section Title: Navigating Emacs Documentation, Pg. 452
   Subject in User Manual Command name help-with-tutorial info info-emacs-manual Action Run the Emacs
   Info file of your choice. Open the Emacs manual
12.3. Using Emacs

The history of Emacs was described earlier in this chapter—now, let's meet our new best friend. As I mentioned earlier, I am a long-time Emacs user and find it to be "the right editor" for me. Your mileage may vary, but no one can deny the power and flexibility of Emacs. Many of the old arguments against using Emacs, such as its memory requirements, simply don't matter anymore thanks to the generally increasing memory requirements of desktop systems and improvements in the type of hardware that most people use.
First, what is installed?

```
researchtools@ubuntu:~$ dpkg --get-selections | wc -l
1789
```

```
<table>
<thead>
<tr>
<th>Package</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>adduser</td>
<td>install</td>
</tr>
<tr>
<td>apel</td>
<td>install</td>
</tr>
<tr>
<td>apparmor</td>
<td>install</td>
</tr>
<tr>
<td>apparmor-utils</td>
<td>install</td>
</tr>
<tr>
<td>apport</td>
<td>install</td>
</tr>
<tr>
<td>apport-symptoms</td>
<td>install</td>
</tr>
<tr>
<td>apt</td>
<td>install</td>
</tr>
<tr>
<td>apt-transport-https</td>
<td>install</td>
</tr>
<tr>
<td>apt-utils</td>
<td>install</td>
</tr>
<tr>
<td>apt-xapian-index</td>
<td>install</td>
</tr>
</tbody>
</table>
```

```
researchtools@ubuntu:~$ dpkg --get-selections | grep emacs
emacs
emacs-jabber
emacs23
emacs23-bin-common
emacs23-common
emacsen-common
python-ropeemacs
```

If you want to read through them all, use a pager (e.g. more, less or most):

```
researchtools@ubuntu:~$ dpkg --get-selections | less
```

If you know a package that is installed, you can use listfiles option to dpkg. A common task is to list the programs available in a package.

```
researchtools@ubuntu:~$ dpkg --listfiles gmt | grep bin | head
/usr/bin/GMT
```
Introduction to Emacs

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I got started in seriously using an electronic work log in 2004 at the suggestion of Anne Wright, while I was working at NASA JPL. Paper logs are really helpful, but they are hard to search.

We will start out jumping right into writing a log in emacs. I use emacs org-mode to keep most of my work logs. I don't use as many features of org-mode as I would like, but it really pushes me to take better notes. I started using org-mode for my work log in 2010 (I found some old notes files and have since converted them into org mode. e.g. 1998, 2000, and 2001).

From the number of lines of log files, you can see that I take electronic logs very seriously.

```
wc -l ?????.txt
 192 kurt-1998.org
 149 kurt-2000.org
 327 kurt-2001.org
 62 kurt-2002.txt
 475 kurt-2003.txt
12139 kurt-2004.txt
 6644 kurt-2005.txt
 19332 kurt-2006.txt
 28292 kurt-2007.txt
 28746 kurt-2008.txt
 18740 kurt-2009.txt
 30945 kurt-2010.org
```
2010 Work Log

Table of Contents

- Style guide
- Key references and links
- Jan 01 - Dover, NH
- Jan 02 - Dover, NH
  - Watching linux kernel dev video
  - Watching JavaScript: The Good Parts
  - Learning more about org-mode
- Jan 03 - Dover, NH
  - Fink
  - More org mode
    - Working through the org mode manual
- Jan 04 - CCOM, Durham, NH
  - RDC AIS feed
  - IHO Hydrographic Services & Standards Committee (HSSC) 1st mtg Minutes from 22 Oct
  - AIS troubles on Gall
    - Fix the ERMA boston area AIS
  - Risk analysis
  - Org mode
  - IPRW
  - Talking to Glen Rice
- Jan 05 - CCOM, Durham, NH
  - Misc for today
  - BAG for the Field Procedures Workshop
  - Learning more about Org Mode
  - hdf 4 not compiling
  - Augmented reality

Waiting for cowfish.unh.edu...
Learning more about Org Mode

To get around the trouble of emacs not listening to the local variables at the top of this file, I found this at the same place that I first learned about flyspell:


; always turn on flyspell
(add-hook 'org-mode-hook
(lambda()
  (flyspell-mode 1)))

I really should get better at emacs lisp if I am really going to be using org mode more effectively. Add that to wanting to learn JavaScript/JQuery, Autoconf, Python 3.x, Ruby, and more/better SQL.


Reading through Sacha's outlining your notes for emacs and org stuff

http://sachachua.com/wp/2008/01/outlining-your-notes-with-org/

Linking back to a day Jan 01 just put text in double brackets like with hyper links. To make a target / link anchor use, two angle brackets. target

Since I am trying to switch to AquaEmacs, I have to get a non-x11 terminal again. The Apple terminal is no fun, so I'm again trying iTerm.

http://iterm.sourceforge.net/

An interesting list of things that people have tweaked with their org mode setups:

http://orgmode.org/worg/org-config/org-customization-survey.php

Looks like setting org-agenda-n-days to something like 30 would be what I want. And setting skip-scheduled-if-done to t would be good.

org-agenda-sorting-strategy

Transferring data from cowfish.unh.edu...
NAIS missing Boston in ERMA  erma nais

Why does ERMA not have anything for the Boston area for vessel traffic? I let it run since yesterday and now I need to check to make sure things are running and have not crashed in that time.

https://portsmouthresponse.unh.edu/erma.html

ERMA as it looks after one day of running since I dropped and added the position table
Tidemet installation at the UNH Pier  ohmex tide waterlevel field

The bluetooth password is 1234

Tidemet water level offset set 42.75 inches. Reads 1.13m

43.072N  70.7117W

This led me to wonder about geotagging in Emacs org mode.

Andy will be taking *whalewatch-4* out to test logging the serial feed from the Tidemet. There was some concern by Will and Les about how this machine was setup for Windows XP last fall. Need to have them wipe and redo what was done before.

Photos taken by Andy McLeod during the install:
Opening files

I will give an introduction to using emacs for basic files here. This really needs a video of the section to show what I'm doing.

- opening a directory
- searching with C-s

Basic org-mode - outlining

The format for org-mode is very similar to Mediawiki. However, the characters used to mark up the text are slightly different. There are large numbers of markup languages, but we will ignore the others right now.

Start by opening a new org mode file. Org-mode starts by default if the file name ends in ".org", "File" -> "Visit New File" and pick type in "example.org".

An alternative approach is to use the keyboard shortcut:

C-x C-f example.org

At the bottom of the window, you will see:

--- example.org All L1 (Org) ---------

You are staring at a blank page, but there are helpers under the "Org" and "Tbl" (meaning table) menus that just appeared at the top of the Window. Select Org -> New Heading. You will see a "*" appear. Headings are made up of 1 or more "*" characters followed by
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Emacs is an open source component of the GNU/Linux operating system.

It is a full-screen window with a high degree of flexibility and customization. Emacs comes with absolutely no warranty.

Emacs has a variety of features, which include:

- Basic keystroke commands
- Customization for redistributing and changing Emacs files
- A well-documented manual

Emacs is usually launched using the following command:

```
emacs
```

It is possible to open a new file in Emacs by typing `C-x c`.

Emacs is similar to Mediawiki, but there are some differences. There are large numbers of markup languages, but Emacs is right now.

To open Org mode, type `C-x 3` and then `C-x C-f`.

To create a new file, type `C-x 1` and then `C-x C-f`.

At the bottom of the window, you will see:

```
--- example.org All L1 (Org) ---------
```

You are staring at a blank page, but there are helpers below. Under the "Org" and "Tbl" (meaning table) menus that just appeared at the top of the Window. Select Org -> New Heading. You will see a "*" appear. Headings are made up of 1 or more "*" characters followed by

---
You are staring at a blank page, but there are helpers under the "Org" and "Tbl" (meaning table) menus that just appeared at the top of the Window. Select Org -> New Heading. You will see a "**" appear. Headings are made up of 1 or more "**" characters followed by
<table>
<thead>
<tr>
<th>Mode</th>
<th>Type</th>
<th>Owner</th>
<th>Size</th>
<th>Date/Time</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>drwrx-</td>
<td>r-x</td>
<td>researchtools</td>
<td>320</td>
<td>2012-06-30 14:53</td>
<td></td>
</tr>
</tbody>
</table>

```
/home/researchtools:
total used in directory 320 available 12150072
drwrxr-x-x 33 researchtools researchtools 4096 2012-06-30 14:53 .
drwrxr-x-x  4 root          root      4096 2011-09-01 16:33 ..
-rw------- 1 researchtools researchtools 129 2012-06-30 15:47 .bash_history
-rw-r-r--  1 researchtools researchtools 220 2011-09-01 16:33 .bash_logout
-rw-r-r--  1 researchtools researchtools 3353 2011-09-01 16:33 .bashrc
-drwxr-x-x  7 researchtools researchtools 4096 2012-06-30 14:44 .cache
-drwrxr-x-x  4 researchtools researchtools 4096 2012-06-30 15:47 .class
-drwrxr-x-x 11 researchtools researchtools 4096 2012-06-30 09:12 .config
-drwrxr-x-x  3 researchtools researchtools 4096 2012-06-26 19:08 .dbus
-drwrxr-x-x  2 researchtools researchtools 4096 2012-06-30 14:44 Desktop
-rw-r-r--  1 researchtools researchtools  63 2012-06-30 14:40 .dmrc
-drwrxr-x-x  2 researchtools researchtools 4096 2012-06-26 19:08 Documents
-drwrxr-x-x  2 researchtools researchtools 4096 2012-06-26 19:08 Downloads
-drwrxr-x-x  3 researchtools researchtools 4096 2012-06-30 14:42 .dropbox
-drwrxr-x-x 19 researchtools researchtools 4096 2012-06-30 14:41 Dropbox
-rw-r-r--  1 researchtools researchtools 92720 2012-04-25 20:40 dropbox_1.4.0_i386.deb
-drwrxr-x-x  4 researchtools researchtools 4096 2012-06-30 09:12 .dropbox-dist
-drwrxr-x-x  3 researchtools researchtools 4096 2012-06-26 19:33 .emacs.d
-rw-r-r--  1 researchtools researchtools  16 2012-06-26 19:08 .esd_auth
-rw-r-r--  1 researchtools researchtools 179 2011-09-01 16:33 examples.desktop
-drwrxr-x-x  2 researchtools researchtools 4096 2012-06-30 07:52 .fontconfig
-drwrxr-x-x  4 researchtools researchtools 4096 2012-06-30 14:40 .gconf
-drwrxr-x-x  2 researchtools researchtools 4096 2012-06-30 15:47 .gconfd
-rw-r-r--  1 researchtools researchtools  0 2012-06-30 15:35 .gksu.lock
-drwrxr-x-x  7 researchtools researchtools 4096 2012-06-30 14:41 .gnome2
-rw-r-r--  1 researchtools researchtools 177 2012-06-30 14:48 .gtk-bookmarks
-drwrxr-x-x  2 researchtools researchtools  0 2012-06-30 14:40 .gvfs
-drwrxr-x-x  1 researchtools researchtools 1272 2012-06-30 14:40 .ICEauthority
-rw-r-r--  1 researchtools researchtools 1228 2012-06-30 08:27 kurt.kdb
```

s-3 is undefined
C-x C-f example.org

At the bottom of the window, you will see:

---:--- example.org All L1 (Org)----------------
The Virtual Machine. Without a code colored. It is a part of the documents.

However, the characters used to numbers of markup languages, but

by default if the file name ends in example.org”.

C-x C-f example.org

At the bottom of the window, you will see:

--:-- example.org All L1 (Org)----------
Shapes: 00006  
Rows: 00000  
Score: 00033  

At the bottom of the window, you will see:  

--::--- example.org All L1 (Org)------------
There are many formats, but we will start with HTML.

"Org" -> "Export/Publish"

You will now see lots of options for the output. Start off by trying "export as HTML and open in browser".

Press the letter "b"
A first heading

some text under the first heading

A Second heading

sub heading

Introduction

Sub-headings have two like this:

This is a sub heading

You can type paragraphs in any heading or sub-heading.
* A first heading

some text under the first heading

* A Second heading...

Lists start with `-`. A list looks like this:

- first item
- another item
- yet another

The list will look like this:
* A first heading

some text under the first heading

* A Second heading

** sub heading

** another sub heading

Lists start with `-`. A list looks like this:

- first item
- another item
- yet another

The list will look like this:
Lists start with `-`. A list looks like this:

- first item
- another item
- yet another
There are many formats, but we will start with HTML.

"Org" -> "Export/Publish"

You will now see lots of options for the output. Start off by trying "export as HTML and open in browser".

Press the letter "b"
* A first heading

some text under the first heading

* A Second heading

** sub heading

** another sub heading

asdfadasdfs;alksjдается;owieuoiqwrfa;lsdfjha

There are many formats, but we will start with HTML.

"Org" -> "Export/Publish"

You will now see lots of options for the output. Start off by trying "export as HTML and open in browser".

Press the letter "b"
** another sub heading

asdasdasdf;laksjdf;owieuroiqwrfa;lsdfjha

- U:--- example.org  Bot L12  (Org)  

[t] insert the export option template  
[v] limit export to visible part of outline tree  
[l] only export the current subtree  
[SPC] publish enclosing subtree (with \LaTeX\_CLASS or EXPORT\_FILE\_NAME prop)  
[a/n/u] export as ASCII/Latin-1/UTF-8  
[h] export as HTML  
[b] export as HTML and open in browser  
[l] export as \LaTeX  
[p] export as \LaTeX and process to PDF  
[d] ... and open PDF file  
[D] export as DocBook  
[j] export as TaskJuggler  
[m] export as Freemind mind map  
[x] export as XOXO  
[g] export using Wes Hardaker's generic exporter  
[i] export current file as iCalendar file  
[I] export all agenda files as iCalendar files  
[F] publish current file  
[X] publish a project...  
[P] publish current project  
[E] publish every projects

Select command:

There are many formats, but we will start with HTML.

"Org" -> "Export/Publish"

You will now see lots of options for the output. Start off by trying "export as HTML and open in browser".

Press the letter "b"
A first heading

some text under the first heading

A Second heading

** sub heading

** another sub heading

1 A first heading

some text under the first heading

2 A Second heading

2.1 sub heading

2.2 another sub heading

example

Table of Contents

- 1 A first heading
- 2 A Second heading
  - 2.1 sub heading
  - 2.2 another sub heading

1 A first heading

some text under the first heading

2 A Second heading

2.1 sub heading

2.2 another sub heading

asdfadfasdf;laksjdf;owieuroiqwrfa;lsdfjha

Author: researchtools

Date: 2012-06-30 16:02:50 PDT

HTML generated by org-mode 7.4 in emacs 23
* A first heading

some text under the first heading

* A Second heading

** sub heading

** another sub heading
* A first heading

some text under the first heading

* A Second heading

** sub heading

** another sub heading

- http://ccom.unh.edu/
- http://yahoo.com
- http://unh.edu

Lists start with "-". A list looks like this:

- first item
- another item
- yet another

The list will look like this:
example

Table of Contents

1 A first heading

2 A Second heading
   2.1 sub heading
   2.2 another sub heading

1 A first heading

some text under the first heading

2 A Second heading

2.1 sub heading

2.2 another sub heading

http://ccom.unh.edu/
http://yahoo.com
http://unh.edu

Author: researchtools
Date: 2012-06-30 16:09:44 PDT
HTML generated by org-mode 7.4 in emacs 23
* A first heading

some text under the first heading

* A Second heading

** sub heading

** another sub heading

- http://ccom.unh.edu/
- http://yahoo.com
- http://unh.edu
Lists start with "-". A list looks like this:

- first item
- another item
- yet another

The list will look like this:
** another sub heading

- http://ccom.unh.edu/
- http://yahoo.com
- http://unh.edu

Would look like this:

<table>
<thead>
<tr>
<th>Column header</th>
<th>something else</th>
</tr>
</thead>
<tbody>
<tr>
<td>hello</td>
<td>world</td>
</tr>
</tbody>
</table>

| a second entry | what do you want to say? |
Another file that we are editing

** another sub heading

- http://ccom.unh.edu/
- http://yahoo.com
- http://unh.edu

---

** Example.org

<table>
<thead>
<tr>
<th>Column header</th>
<th>something else</th>
</tr>
</thead>
<tbody>
<tr>
<td>hello</td>
<td>world</td>
</tr>
<tr>
<td>a second entry</td>
<td>what do you want to say?</td>
</tr>
</tbody>
</table>

Would look like this:

```
<table>
<thead>
<tr>
<th>Column header</th>
<th>something else</th>
</tr>
</thead>
<tbody>
<tr>
<td>hello</td>
<td>world</td>
</tr>
<tr>
<td>a second entry</td>
<td>what do you want to say?</td>
</tr>
</tbody>
</table>
```
A first heading

some text under the first heading

A Second heading

** sub heading

** another sub heading

- http://ccom.unh.edu/
- http://yahoo.com
- http://unh.edu

A table

<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

Would look like this:

<table>
<thead>
<tr>
<th>Column header</th>
<th>something else</th>
</tr>
</thead>
<tbody>
<tr>
<td>hello</td>
<td>world</td>
</tr>
<tr>
<td>a second entry</td>
<td>what do you want to say?</td>
</tr>
</tbody>
</table>
* A first heading

some text under the first heading

* A Second heading

* sub heading

** another sub heading

- [http://ccom.unh.edu/](http://ccom.unh.edu/)
- [http://yahoo.com](http://yahoo.com)
- [http:// unh.edu](http:// unh.edu)

* A table

<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

Would look like this:

<table>
<thead>
<tr>
<th>Column header</th>
<th>something else</th>
</tr>
</thead>
<tbody>
<tr>
<td>hello</td>
<td>world</td>
</tr>
<tr>
<td>a second entry</td>
<td>what do you want to say?</td>
</tr>
</tbody>
</table>

Would look like this:

---

- publish or export the document.
- by trying "export as HTML and example.html".

With all "—" characters create
* A first heading

some text under the first heading

* A Second heading

** sub heading

** another sub heading

- http://ccom.unh.edu/
- http://yahoo.com
- http://unh.edu

* A table

<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

Would look like this:

<table>
<thead>
<tr>
<th>Column header</th>
<th>something else</th>
</tr>
</thead>
<tbody>
<tr>
<td>hello</td>
<td>world</td>
</tr>
<tr>
<td>a second entry</td>
<td>what do you want to say?</td>
</tr>
</tbody>
</table>
A first heading
some text under the first heading

A Second heading
** sub heading
** another sub heading

- [http://ccom.unh.edu/](http://ccom.unh.edu/)
- [http://yahoo.com](http://yahoo.com)
- [http://unh.edu](http://unh.edu)

* A table

<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

** Export/Publish...**

- LaTeX
- MobileOrg
- Documentation
- Customize
- Send bug report
- Refresh/Reload

Would look like this:

<table>
<thead>
<tr>
<th>Column header</th>
<th>something else</th>
</tr>
</thead>
<tbody>
<tr>
<td>hello</td>
<td>world</td>
</tr>
<tr>
<td>a second entry</td>
<td>what do you want to say?</td>
</tr>
</tbody>
</table>

Would look like this:

Column header  something else
hello          world
a second entry  what do you want to say?
A first heading

some text under the first heading

A Second heading

** sub heading

** another sub heading

- http://ccom.unh.edu/
- http://yahoo.com
- http://unh.edu

A table

<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

1 A first heading

some text under the first heading

2 A Second heading

2.1 sub heading

2.2 another sub heading

3 A table

<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

Author: researchtools
Date: 2012-06-30 16:14:23 PDT

HTML generated by org-mode 7.4 in emacs 23
* A table
<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

- [ ] This a checklist entry
- [X] C-c C-c toggles through things. X marks done

```org
#+BEGIN_EXAMPLE
* This is a heading
#+END_EXAMPLE
```

**Alternative strategies for note taking**

- Wiki on a stick - Some people have had some data loss with WOAS
- Twiki - Your own local wiki
- [https://github.com/github/gollum](https://github.com/github/gollum)
- [http://www.google.com/notebook](http://www.google.com/notebook)

See also: [Comparison of Notetaking Software](https://www.geeksforgeeks.org/comparison-of-notetaking-software/) and [Comparison of Wiki Software](https://www.geeksforgeeks.org/comparison-of-wiki-software/)
Alternative strategies for note taking

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- [https://github.com/github/gollum](https://github.com/github/gollum)
- [http://www.google.com/notebook](http://www.google.com/notebook)

See also: [Comparison of Notetaking Software](http://www.comparisonof.com/software/notetaking) and [Comparison of Wiki Software](http://www.comparisonof.com/software/wiki)
* A table

<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

- [ ] This a checklist entry
- [X] C-c C-c toggles through things.
- [ ] another checklist item

1 A first heading

some text under the first heading

2 A Second heading

2.1 sub heading

2.2 another sub heading

- http://ccom.unh.edu/
- http://yahoo.com
- http://unh.edu

3 A table

<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

- [ ] This a checklist entry
- [X] C-c C-c toggles through things.
- [ ] another checklist item

Author: researchtools
Date: 2012-06-30 16:22:16 PDT

HTML generated by org-mode 7.4 in emacs 23
C-c .  <- insert a date

- [ ] This a checklist entry
- [X] C-c C-c toggles through things.
- [ ] another checklist item

Alternative strategies for note taking

- Wiki on a stick - Some people have had some data loss with WOAS
- Twiki - Your own local wiki
- https://github.com/github/gollum
- http://www.tiddlywiki.com/
- http://www.google.com/notebook

See also: Comparison of Notetaking Software and Comparison of Wiki Software
* A table

<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

- [ ] This a checklist entry
- [X] C-c C-c toggles through things.
- [ ] another checklist item

"." is a "period" in American English and "full-stop" in British English

<2012-07-01 Sun>

---

Alternative strategies for note taking

- Wiki on a stick - Some people have had some data loss with WOAS
- Twiki - Your own local wiki
- https://github.com/github/gollum
- http://www.tiddlywiki.com/
- http://www.google.com/notebook

See also: [Comparison of Notetaking Software](https://example.org) and [Comparison of Wiki Software](https://example.org)
Wiki on a stick - Some people have had some data loss with WOAS
Twiki - Your own local wiki
https://github.com/github/gollum
http://www.tiddlywiki.com/
http://www.google.com/notebook

See also: Comparison of Notetaking Software and Comparison of Wiki Software
- [ ] This a checklist entry
- [X] C-c C-c toggles through things.
- [ ] another checklist item

"." is a "period" in American English and "full-stop" in British English

<2012-07-01 Sun>

C-x 1  ⊢ Unsplits your window
C-x 2  ⊢ Split window
C-x 3  ⊢ Split sideways

* Wiki on a stick - Some people have had some data loss with WOAS
* Twiki - Your own local wiki
  * [https://github.com/github/gollum](https://github.com/github/gollum)
  * [http://www.tiddlywiki.com/](http://www.tiddlywiki.com/)
  * [http://www.google.com/notebook](http://www.google.com/notebook)

See also: Comparison of Notetaking Software and Comparison of Wiki Software
<table>
<thead>
<tr>
<th>May 2012</th>
<th>June 2012</th>
<th>July 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Su Mo Tu We Th Fr Sa</td>
<td>Su Mo Tu We Th Fr Sa</td>
<td>Su Mo Tu We Th Fr Sa</td>
</tr>
<tr>
<td>1 2 3 4 5</td>
<td>1 2 3 4 5</td>
<td>1 2</td>
</tr>
<tr>
<td>6 7 8 9 10 11 12</td>
<td>6 7 8 9 10 11 12</td>
<td>6 7</td>
</tr>
<tr>
<td>13 14 15 16 17 18 19</td>
<td>13 14 15 16 17 18 19</td>
<td>13 14</td>
</tr>
<tr>
<td>20 21 22 23 24 25 26</td>
<td>20 21 22 23 24 25 26</td>
<td>23</td>
</tr>
<tr>
<td>27 28 29 30 31</td>
<td>27 28 29 30 31</td>
<td>30</td>
</tr>
</tbody>
</table>

- Wiki on a stick - Some people have had some data loss with WOAS
- Twiki - Your own local wiki
- https://github.com/github/gollum
- http://www.tiddlywiki.com/
- http://www.google.com/notebook

See also: Comparison of Notetaking Software and Comparison of Wiki Software
Saturday, June 30, 12

- Wiki on a stick - Some people have had some data loss with WOAS
- Twiki - Your own local wiki
  - https://github.com/github/gollum
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  - http://www.google.com/notebook

See also: Comparison of Notetaking Software and Comparison of Wiki Software
some text under the first heading

* A Second heading
** sub heading
** another sub heading

- http://ccom.unh.edu/
- http://yahoo.com
- http://unh.edu

* A table

<table>
<thead>
<tr>
<th>Column 1</th>
<th>another column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some data</td>
<td>moredata</td>
</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

- [ ] This a checklist entry
- [X] C-c C-c toggles through things.
- [ ] another checklist item

"." is a "period" in American English and "full-stop" in British English

<2013-07-01 Mon>

C-x 1 <- Unsplits your window
C-x 2 <- Split window
C-x 3 <- Split sideways

** example.org  Bot L30  (Org)---------

- Wiki on a stick - Some people have had some data loss with WOAS
- Twiki - Your own local wiki
- https://github.com/github/gollum
- http://www.tiddlywiki.com/
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See also: Comparison of Notetaking Software and Comparison of Wiki Software
some text under the first heading

* A Second heading
** sub heading
** another sub heading
  - http://ccom.unh.edu/
  - http://yahoo.com
  - http://unh.edu

* A table
<table>
<thead>
<tr>
<th>Column 1</th>
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</tr>
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<tr>
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</tr>
<tr>
<td>1234</td>
<td></td>
</tr>
</tbody>
</table>

- [ ] This a checklist entry
- [X] C-c C-c toggles through things.
- [ ] another checklist item

"." is a "period" in American English and "full-stop" in British English

<2024-07-06 Sat>

C-x 1 <- Unsplits your window
C-x 2 <- Split window
C-x 3 <- Split sideways

- Wiki on a stick - Some people have had some data loss with WOAS
- Twiki - Your own local wiki
  - https://github.com/github/gollum
  - http://www.tiddlywiki.com/
  - http://www.google.com/notebook

See also: Comparison of Notetaking Software and Comparison of Wiki Software
5 TODO Fill in your name and email at the top

If you don’t put your name on your homework, even if sending it to me and naming the files appropriately, I will deduct points.

Go to the top of this file and do the following:

- [ ] Replace “FIX: your name” with your name
- [ ] Replace “FIX: your email” with your email address. This must be UNH or NOAA address, or no points.

6 TODO Shell basics

6.1 TODO download the example data


Place the command inside the “SRC” and the results inside of the example. I will do the first one for you.

```
```

Results:

```
Resolving vislab-ccom.unh.edu... 132.177.103.235
Connecting to vislab-ccom.unh.edu|132.177.103.235|:80... connected.
HTTP request sent, awaiting response... 200 OK
http://vislab-ccom.unh.edu...n-construction.csv.bz2 5b/x-bzip2
```
Some data | moredata
| 1234 |

- [ ] This a checklist entry
- [X] C-c C-c toggles through things.
- [ ] another checklist item

"." is a "period" in American English and "full-stop" in British English

\[2012-07-01\ Sun\]

C-x 1 ← Unsplits your window
C-x 2 ← Split window
C-x 3 ← Split sideways
C-x k ← kills a buffer

* Add some source code

```
#+BEGIN_SRC sh
# This is a comment
echo "Hello World"
#+END_SRC
```

An example:

```
# This is a comment
echo "Hello World"
```

4 Add some source code

An example:

```
yada yada
```

Author: researchtools
Date: 2012-06-30 16:37:18 PDT
HTML generated by org-mode 7.4 in emacs 23
Open a terminal:
- `mkdir -p hw/2`
- `cd hw/2`
- `wget http://tinyurl.com/hw-2-shell-and-org-mode-dotorg`

Or if you want to do less typing, you can replace the `wget` and `mv` command with this:

```
wget --output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fj...
```

**4 TODO** A little org mode intro
researchtools@ubuntu:~/.hw/2$ mv hw-2-shell-and-org-mode-dotorg hw-2-shell-and-org-mode-dotorg

To do

- [ ] Open a terminal
- [ ] mkdir -p hw/2
- [ ] cd hw/2
- [ ] wget http://tinyurl.com/hw-2-shell-and-org-mode-dotorg
- [ ] mv hw-2-shell-and-org-mode-dotorg hw-2-shell-and-org-mode.org
- [ ] start emacs and open the homework

Or if you want to do less typing, you can replace the wget and mv command with this:

```
wget --output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fj
```

4 TODO A little org mode intro
Homework 2: command line and org-mode

This assignment is due Thurs by 5PM EDT
DEADLINE: <2011-09-22 Thu 17:00>

Introduction

Homework 1 had you create a CCOM wiki page. Much of the homework for the rest of the class will be in emacs org-mode. You will submit your homework as an emacs org-mode file and an exported HTML file as a tar with the proper file name. Make sure to mark all TODO items as DONE. Make sure to fill in all sections. Mark all check boxes when you complete them.

Put your answers in the appropriate "#+BEGIN\_SRC" or "#+VERSE" sections when they are in the homework.

Some questions may start with a "- [ ]". Fill in the line and use \texttt{C-c C-c} to mark the check box as done.

*NOTE:* You should complete this assignment on your own first. But it is okay to check over each other's completed assignments. I strongly recommend that you have another classmate check your work.

Or if you want to do less typing, you can replace the \texttt{wget} and \texttt{mv} command with this:

\texttt{wget \--output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fj}

4 TODO A little org mode intro
*NOTE:* You should complete this assignment on your own first. But it is okay to check over each other’s completed assignments. I strongly recommend that you have another classmate check your work.

This assignment depends on attention to detail.

* TODO Download and get started

- [ ] Log in to your virtual machine
- [ ] Open a terminal
- [ ] `mkdir -p hw/2`
- [ ] `cd hw/2`
- [ ] `wget http://tinyurl.com/hw-2-shell-and-org-mode-dotorg`
- [ ] `mv hw-2-shell-and-org-mode-dotorg hw-2-shell-and-org-mode.org`
- [ ] start emacs and open the homework

Or if you want to do less typing, you can replace the wget and mv command with this:

```
BEGIN_SRC sh
wget ----output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fjdpvh
END_SRC
```

* TODO A little org mode intro

This is what inline questions look like. The first question is answered for you and marked as complete.

- [X] What is the CCOM website?
  [http://ccom.unh.edu](http://ccom.unh.edu)
- [ ] What is the website for the operating system we are using in this class inside of the virtual machine?

Or if you want to do less typing, you can replace the wget and mv command with this:

```
wget ----output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fdphv...
```

4 TODO A little org mode intro
*NOTE:* You should complete this assignment on your own first. But it is okay to check over each other's completed assignments. I strongly recommend that you have another classmate check your work.

This assignment depends on attention to detail.

* TODO Download and get started
  - [X] Log in to your virtual machine
  - [X] Open a terminal
  - [X] `mkdir -p hw/2`
  - [X] `cd hw/2`
  - [X] `mv hw-2-shell-and-org-mode-dotorg hw-2-shell-and-org-mode.org`
  - [X] start emacs and open the homework

Or if you want to do less typing, you can replace the wget and mv command with this:

```sh
BEGIN_SRC sh
wget --output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fjdphev
END_SRC
```

* TODO A little org mode intro

This is what inline questions look like. The first question is answered for you and marked as complete.

- [X] What is the CCOM website?
  `http://ccom.unh.edu`
- [X] What is the website for the operating system we are using in this class inside of the virtual machine?

```
** hw-2-shell-and-org-mode-dotorg 11% L44 (Org)
```

Or if you want to do less typing, you can replace the wget and mv command with this:

```sh
wget --output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fjdphv
```

4 TODO A little org mode intro
This assignment depends on attaining the following steps:

- Log in to your virtual machine and execute the following commands:
  - `mkdir -p hw-2/`
  - `cd hw-2/`
  - `wget http://tinyurl.com/3fj...`

Or if you want to do less typing, you can replace the `wget` and `mv` command with this:

```
wget --output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fj...
```

**4 TODO A little org mode intro**
*NOTE:* You should complete this assignment on your own first. But it is okay to check over each other’s completed assignments. I strongly recommend that you have another classmate check your work.

This assignment depends on attention to detail.

**DONE Download and get started**

- [x] Log in to your virtual machine
- [x] Open a terminal
- [x] mkdir -p hw/2=
- [x] cd hw/2=
- [x] mv hw-2-shell-and-org-mode-dotorg hw-2-shell-and-org-mode.org=
- [x] start emacs and open the homework

Or if you want to do less typing, you can replace the wget and mv command with this:

```sh
###BEGIN_SRC sh
wget ----output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fjdphv
###END_SRC
```

**TODO** A little org mode intro

This is what inline questions look like. The first question is answered for you and marked as complete.

- [x] What is the CCOM website?
  [http://ccom.unh.edu](http://ccom.unh.edu)
- [ ] What is the website for the operating system we are using in this class inside of the virtual machine?

Or if you want to do less typing, you can replace the wget and mv command with this:

```sh
wget ----output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fjdphv
```

**4 TODO** A little org mode intro
Or if you want to do less typing, you can replace the wget and mv command with this:

```sh
wget --output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fjdphv
```

---

**BEGIN_SRC sh**

```
wget --output-file=hw-2-shell-and-org-mode.org http://tinyurl.com/3fjdphv
```

**END_SRC**

---

* TODO A little org mode intro

This is what inline questions look like. The first question is answered for you and marked as complete.

- [X] What is the CCOM website?
  [http://ccom.unh.edu](http://ccom.unh.edu)

- [ ] What is the website for the operating system we are using in this class inside of the virtual machine?
- [ ] What is the URL for the Wikipedia Entry on Multibeam Sonars?

* TODO Fill in your name and email at the top

If you don't put your name on your homework, even if sending it to me and naming the files appropriately, I will deduct points.

Go to the top of this file and do the following:

- [ ] Replace "FIX: your name" with your name
- [ ] Replace "FIX: your email" with your email address. This must be UNH or NOAA address, or no points.

* TODO Shell basics

** TODO download the example data

---

 hw-2-shell-and-org-mode-dot.org  16% L63  (Org)---------------------
** Uncompress

Use the correct command to uncompressed 2007-boston-construction.csv.bz2

###BEGIN_SRC sh
# FIX: put command here
###END_SRC

** TODO What generally is in this file?

Use the =file= command to find out what type of file this is.

###BEGIN_SRC sh
FIX: put answer here
###END_SRC

Results:

###BEGIN_EXAMPLE
FIX: put results here
###END_EXAMPLE

Or if you want to do less typing, you can replace the wget and mv command with this:

```
wget --output-file=hw-2-shell-and-org-mode-dot.org http://tinyurl.com/3fj
```

### 4 TODO A little org mode intro
Verify that your homework is in place.

** Tell your instructor that your homework is done

Email me from your UNH email account (no hotmail/gmail/yahoo/etc email) with the subject line "research tools homework 2".

My email address is kurt@ccom.unh.edu

In the email, include the md5 sum of your .tar.bz2 archive. I will then log into researchtools to check on your homework. I will compute the md5 sum of your tar

Or if you want to do less typing, you can replace the wget and mv command with this:

```
wget ----output-file=hw-2-shell-and-org-mode-dot.org http://tinyurl.com/3fjk
```

4 TODO A little org mode intro