

RESEARCH TOOLS 2011

LECTURE 07



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

UNH CCOM/JHC
Emacs and org-mode



[Rob Braswell](#) taught class 25 on R for statistics.
[Applied Geosolutions](#).

Introduction

The goal of this UNH course is to give students a career. I am hoping to get this wrapped together CCOM. I am releasing all course material under pass copies to your 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.

No.	Date	Video	Present	Blog	Audio	Title/Notes
01	2011-08-30	YouTube mp4	pdf key	comment	mp3	Introduction
02	2011-09-01	YouTube mp4	pdf key	comment	mp3	IRC, Wiki, Basic Shell
03	2011-09-06	YouTube mp4	pdf key	comment	mp3	Wiki editing, Weather Demo, Command Line
04	2011-09-08	YouTube mp4	pdf key	comment	mp3	VMWare Ubuntu Image
05	2011-09-13	YouTube mp4	pdf key	comment	mp3	File types, Emacs intro, beginning scripts
06	2011-09-15	Coming soon	pdf key	comment	mp3	KeePassX and Dropbox
07	2011-09-20	Coming soon	soon	comment	mp3	Emacs and org-mode

```
researchtools@ubuntu: ~/Desktop
File Edit View Search Terminal Help
researchtools@ubuntu:~$ cd ~/Desktop/
researchtools@ubuntu:~/Desktop$ rm vmwa
rm: cannot remove `vmware-tools-distrib
researchtools@ubuntu:~/Desktop$ rm -rf
researchtools@ubuntu:~/Desktop$
```


[Rob Braswell](#) taught class 25 on R for statistics. Rob is an Affiliate Faculty in EOS at UNH and works at [Applied Ge](#)

Introduct

The goal of
career. I am
CCOM. I am
pass copies
me if you f

NOTE: The

No.	
01	20
02	20
03	20
04	20
05	20
06	20
07	20

URL irc://freenode/ **Connected** **Lag** 5.34 seconds

```

=== - a not for profit organisation registered in England and
Wales.

=== -

=== - If you support the work we do and wish to donate to the
PDPC,

=== - you may do so over at http://freenode.net/pdpc\_donations.shtml

=== -

=== - Thank you for using freenode!

=== -

=== - *****
*****

=== - Please read http://blog.freenode.net/2010/11/be-safe-out-there/

=== - *****
*****

--- End of /MOTD command.

== User mode for kurtym is now +i

```

```
*client* freenode
```

kurtvm

`/join #unhresearchtools`

[2012-06-30 14:48:20] freenode

[mp4](#)

05	2011-09-13	YouTube mp4	pdf key	comment	mp3	File types, Emacs intro, beginning scripts
06	2011-09-15	Coming soon	pdf key	comment	mp3	KeePassX and Dropbox
07	2011-09-20	Coming soon	soon	comment	mp3	Emacs and org-mode


```
Applications Places System
schwehr@researchtools: ~
File Edit View Search Terminal Help
researchtools@ubuntu:~$ ssh schwehr@researchtools.ccom.nh
The authenticity of host 'researchtools.ccom.nh (192.168.2.28)' can't be established.
ECDSA key fingerprint is 16:c1:64:32:da:23:b9:58:0a:87:06:5b:05:1a:c5:35.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'researchtools.ccom.nh,192.168.2.28' (ECDSA) to the list of known hosts.
#####
**WARNING**WARNING**WARNING**

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**WARNING**WARNING**
schwehr@researchtools.ccom.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
schwehr@researchtools:~$ irssi
```

: Emacs and org-mode (DRAFT) - Mozilla Firefox

History Delicious Bookmarks Tools Help

vislab-ccom.unh.edu/~schwehr/Classes/2011/es

vehr/Classes... Class 7: Emacs and org-mod...

which is already installed. There is a section on that, but I will leave it to you

ve into taking notes with emacs org-mode. I take most of my work notes in o
se it to keep track of the their research and draft material for their thesis. All
ass and the homework assignments are written in org-mode format.

: The end of this document links to homework due on Thursday. Please pay c
ng the homework.

org-mode reference cards

le sided:

[mode.org/orgcard.pdf](#)

[refcard.pdf](#)

achine, you can open either of these links:

[/emacs/23.2/etc/refcards/refcard.pdf](#)

[/doc/org-mode/org.pdf.gz](#)

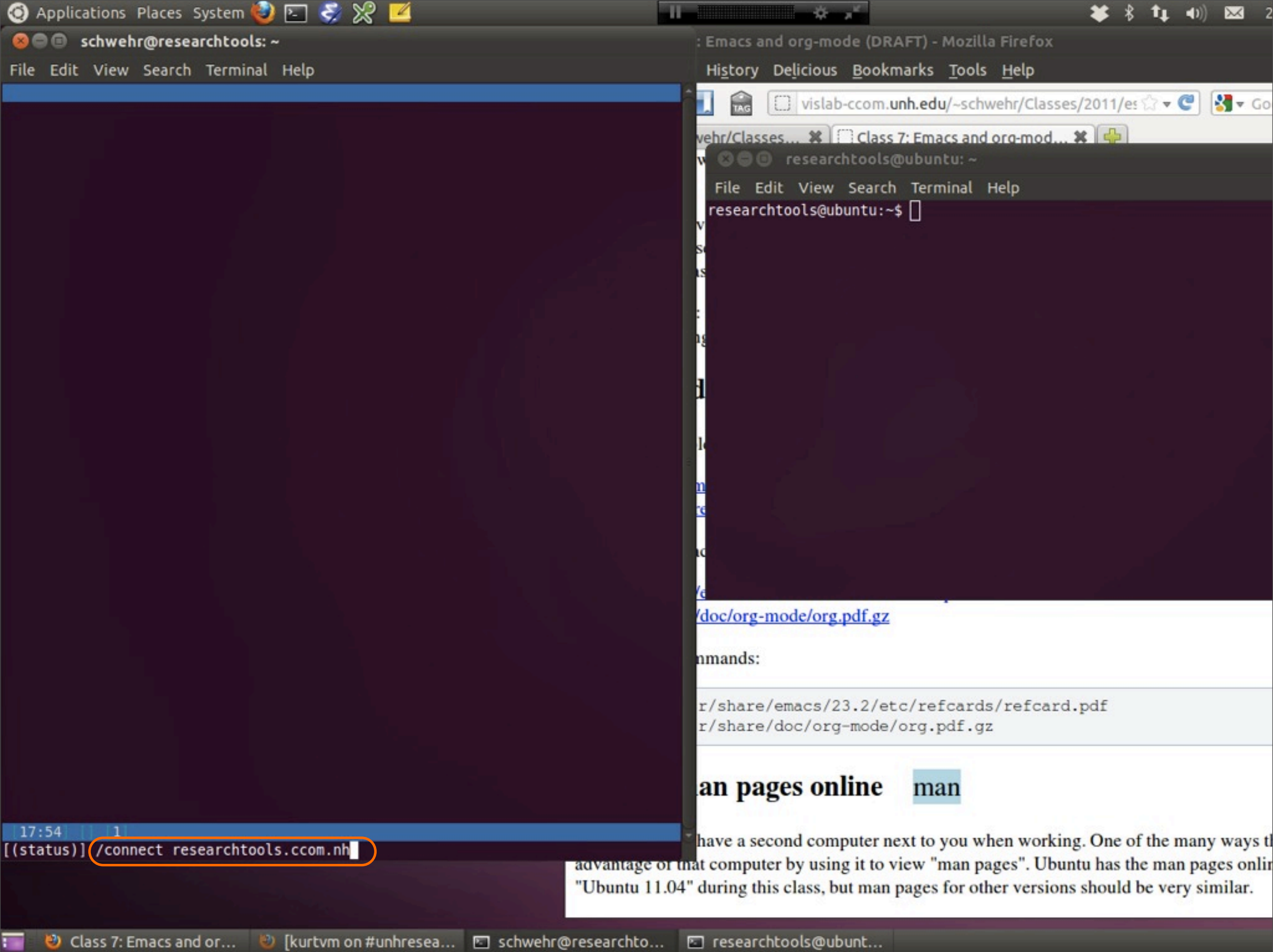
mands:

[r/share/emacs/23.2/etc/refcards/refcard.pdf](#)

[r/share/doc/org-mode/org.pdf.gz](#)

an pages online **man**

have a second computer next to you when working. One of the many ways th
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.



Applications Places System

schwehr@researchtools: ~

File Edit View Search Terminal Help

17:55 -!- Irssi: Looking up researchtools.ccom.nh

17:55 -!- Irssi: Connecting to researchtools.ccom.nh [192.168.2.28] port 6667

17:55 -!- Irssi: Connection to researchtools.ccom.nh established

17:55 -!- Welcome to the Internet Relay Network

schwehr!~schwehr@researchtools.ccom.nh

17:55 -!- Your host is irc.debian.org, running version ngircd-15

(i486/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 biIklmnoPstv

17:55 -!- RFC2812 CASEMAPPING=ascii PREFIX=(ov)@+ CHANTYPES=#&+

CHANMODES=bI,k,l,imnPst 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 -!- - *****

17:55 -!- - * H E L L O *

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.ccom.nh]

17:55

schwehr (i)

1:researchtools (change with ^X)

[(status)]

/join #unhresearchtools

Emacs and org-mode (DRAFT) - Mozilla Firefox

History Delicious Bookmarks Tools Help

vislab-ccom.unh.edu/~schwehr/Classes/2011/es

vehr/Classes... Class 7: Emacs and org-mod...

researchtools@ubuntu: ~

File Edit View Search Terminal Help

researchtools@ubuntu:~\$

mands:

r/share/emacs/23.2/etc/refcards/refcard.pdf

r/share/doc/org-mode/org.pdf.gz

an pages online man

have a second computer next to you when working. One of the many ways t

advantage of that computer by using it to view "man pages". Ubuntu has the man pages onlin

"Ubuntu 11.04" during this class, but man pages for other versions should be very similar.

Class 7: Emacs and or...

[kurtvm on #unhrese...

schwehr@researchto...

researchtools@ubunt...

Saturday, June 30, 12

Applications Places System

schwehr@researchtools: ~

File Edit View Search Terminal Help

17:55 -!- schwehr_ [~schwehr@researchtools.ccom.nh] has joined #unhresearchtools

17:55 [Users #unhresearchtools]

17:55 [@schwehr] [schwehr_]

17:55 -!- Irssi: #unhresearchtools: Total of 2 nicks [1 ops, 0 halfops, 0 voices, 1 normal]

17:55 -!- Irssi: Join to #unhresearchtools was synced in 1 secs

17:55 < schwehr_ > hi schwehr

17:55 <@schwehr> hi schwehr_

17:56 -!- schwehr_ [~schwehr@192.168.12.102] has joined #unhresearchtools

17:56 < schwehr_ > and a third schwehr

17:57 < schwehr_ > http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/07-emacs-and-org-mode.html

17:57 [schwehr (+1)] [2:researchtools/#unhresearchtools]

[#unhresearchtoo]

Emacs and org-mode (DRAFT) - Mozilla Firefox

History Delicious Bookmarks Tools Help

95-researchtools/07-emacs-and-org-mode.html

vehr/Classes... Class 7: Emacs and org-mod...

Class 7: Emacs and org-mode (DRAFT)

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- [ORK - shell and org-mode](#)

to log in to the IRC

irc

the Ubuntu virtual machine in class today. There is too much confusion whe

between Windows and Ubuntu.

Make sure to not use "researchtools" as your login name for the IRC channel!

Class 7: Emacs and or...

[kurtvm on #unhrese...

schwehr@researchto...

Saturday, June 30, 12

Class 7: Emacs and org-mode (DRAFT)

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- [HOMEWORK - shell and org-mode](#)

Reminder to log in to the IRC `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 not use "researchtools" as your login name for the IRC channel.

researchtools@ubuntu: ~

File Edit View Search Terminal Help

researchtools@ubuntu:~\$

Ubuntu Manpage: Welcome - Mozilla Firefox

File Edit View History Delicious Bookmarks Tools Help

manpages.ubuntu.com

Index of /~schwehr/Cl... Class 7: Emacs and org... Ubuntu Manpage: Wel...

ubuntu manuals

8.04 LTS 10.04 LTS 10.10 11.04 11.10 12.04 LTS

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 all 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 plugin** 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

12.04 LTS



minmax



to the Ubuntu Manpage Repository

hundreds of thousands of dynamically generated manuals, extracted from every supported version of Ubuntu, and updated on a daily basis. These are browsed on the command line. This project renders all such Ubuntu into an HTML, web-browsable format.

the Repository

as a hierarchical file structure

at the top of every page

line plugin for your browser

shell script to run on a command line

ources

following Ubuntu documentation resources useful:

n maintained by the Ubuntu Documentation Team

tation maintained by the Ubuntu Community

ation maintained by the Ubuntu Development Community

on Search indexes a number of unique Ubuntu web resources

manpages.ubuntu.com/cgi-bin/

8.04 LTS 10.04 LTS 10.10 11.04 11.10 12.04 LTS

<http://manpages.ubuntu.com/manpages/natty/man1/minmax.1gmt.html>

ubuntu manuals

8.04 LTS 10.04 LTS 10.10 11.04 11.10 12.04 LTS

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*]] [**-ldx**[*/dy*]] [**-L**] [**-M**[*flag*]] [**-:**] [**-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**

researchtools@ubuntu: ~

File Edit View Search Terminal Help

```
researchtools@ubuntu:~$ uname -a
Linux ubuntu 2.6.38-15-generic #61-Ubuntu
i686 i386 GNU/Linux
researchtools@ubuntu:~$ cat /etc/lsb-release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=11.04
DISTRIB_CODENAME=natty
DISTRIB_DESCRIPTION="Ubuntu 11.04"
researchtools@ubuntu:~$
```

Ubuntu Manpage: minmax - Find extreme values in data tables - Mozilla Firefox

File Edit View History Delicious Bookmarks Tools Help

es/maverick/en/man1/minmax. Google

Index of /~schwehr/Cl... Class 7: Emacs and org... Ubuntu Manpage: min...

ubuntu manuals

8.04 LTS 10.04 LTS 10.10 11.04 11.10 12.04 LTS

maverick (1) minmax.1gmt.gz
Provided by: gmt_4.5.2-1build1_i386

NAME

minmax - Find extreme values in data tables

SYNOPSIS

```
minmax [ files ] [ -C ] [ -EL|H|hcol ] [ -H[i][nrec] ] [
-l[p]dx[/dy[/dz...]] [ -S[x][y] ] [ -Tdz[/col] ] [ -:[i|o] ] [
-bi[s|S|d|D[ncol]]c[var1/...]] [ -f[i|o]colinfo ] [ -m[i|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/e/s/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/dz** string for makecpt.

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>
- Click "Library" Tab
- Click "Connect to Databases" Link - <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](#) by Robin Nixon, O'Reilly, April, 2010.
 - [Beginning Ubuntu Linux, Fifth Edition](#) by Emilio Raggi; Keir Thomas; Trevor Parsons; Andy Channelle; Sander van Vugt, Apress, September 2010.
- Emacs
 - [Learning GNU Emacs, Third Edition](#) by Debra Cameron; James Elliott; Marc Loy; Eric S. Raymond; Bill Rosenblatt, Dec, 2004.
 - [A Practical Guide to Linux® Commands, Editors, and Shell Programming, Second Edition, Ch 7](#) by Mark G. Sobell, Nov. 2009.



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DETAILS



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& Teams

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Class 7: Emacs and org-mode (...)

Databases - University of New ...

Blackboard Learn

https://blackboard.unh.edu/webapps/portal/frameset...

Google

Home

Help

Login

BLACKBOARD 9.1 SP7

MyUNH

Welcome to UNH Blackboard

Courses

Orgs & Depts

Login Help

UNH Tools

UNH Calendar

Search UNH Booklist

Undergraduate College Catalog

Graduate Catalog

Registration & Class Schedule Info

Searchable Class Schedule

IMPORTANT! Use a Bb compatible browser!

Help for MyUNH/Blackboard

FAQs, Documentation, Online Support Requests. Or click the Help button at the top of any Bb screen

Cat's Cache Notification

Cat's Cache is now available on Blackboard.unh.edu.

UNH - Dining (Cat's Cache) Guest Deposit

Guest Deposit

Enter information below to lookup student account

USERNAME (ITID)

First Name

Login Here

Click the Login button below to log on to Blackboard.

Login

Need help login in? Click the Login Help tab above for more information.

UNH - Technology@UNH

News & Notes for Parents, Visitors, Faculty, and Staff:

unh signals

UNH IT Newsletter

Read Signals, the IT newsletter at <http://signals.unh.edu>.

UNH Web

VPN

Off-campus? Use the UNH VPN to access many of our websites and resources including Anti-Virus Software. Go to <http://vpn.unh.edu>

reminder

Change Your Password. This is a reminder that University policy requires UNH computer account passwords be changed at least every 6 months. We urge you to follow this practice for your protection

Phishing

Important Notice About Phishing Attacks: Please [click here](#) to read more.

UNH - Parent Portal Information

MyUNH Parent Portal

Parents! Have you just received a temporary password and are ready to activate your Parent Portal account?

Click on the LOGIN HELP tab above and go to the UNH - PARENT ACCOUNT SETUP AND MAINTENANCE module on the top right-hand side. Click the CONTINUE button in the module to SETUP YOUR ACCOUNT and create a PERMANENT password. After you have setup and activated your account and established a permanent password, go to the LOGIN button in the middle of this page to LOGIN TO BLACKBOARD.

Parents have real-time account views through the MyUNH Parent Portal. This portal will provide a view of up-to-the-minute student account information with an online payment option. [For more information follow this LINK.](#)

UNH - MyUNH Blackboard System Notices

BLACKBOARD SERVICE PACK 7 UPGRADE:

On Sunday, March 11th, 2012, UNH IT upgraded Blackboard to Service Pack 7. For a brief description of new features and enhancements, visit: [Blackboard 9.1 Upgrade.](#)

WEEKLY SYSTEM MAINTENANCE:

Blackboard is scheduled to be down every Wednesday, 4:00-4:30 AM and Sunday, 2:00-10:00 AM.

zotero

Saturday, June 30, 12



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Databases

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Citation linker
E-Books
Connecting from
Off-Campus

Ask a Librarian
Database Access Help
Database News & Trials

Title

[A-Am] [An-Az] [B] [C-CI] [CI-Cu] [D] [E-Em] [En-Ez]
[F-G] [H-K] [L-M] [N-O] [P] [Q-R] [S-T] [U-Z] [All]

Subject

Arts/Music
Business/Economics
Education
Engineering
Environmental Studies
General/Cross-Disciplinary
Health/Medicine/Sports
History
Humanities

Literature/Language/Linguistics
Math/Computer Science
News/Current Events
Political Science/Public Policy/Law
Psychology/Sociology/Anthropology
Science (Life)
Science (Physical)
Social Sciences

Type

Books/Reports/Dissertations
Directories

Newspaper Resources
Periodical Indexes

Class 7: Emacs and org-mode (...)

Title: S-T - Databases - Univer...

+

www.library.unh.edu/researchtools/databases/databases.php?search=ST

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Google

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Database News & Trials

Title: S-T

Back to Databases

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

Safari Books Online

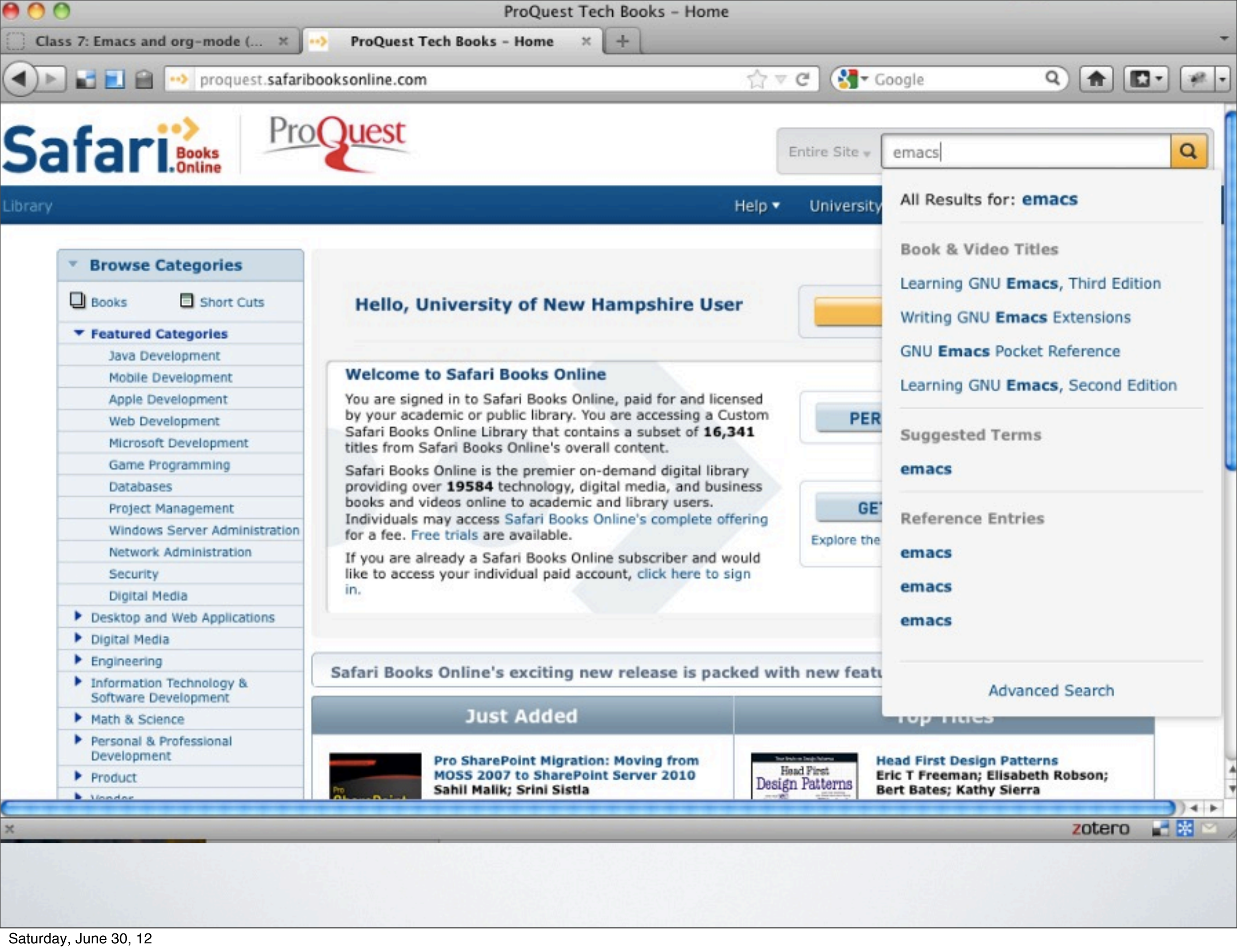
provides access to the electronic versions of hundreds of technical books from the premier IT Publishers. The database content covers more than 20 categories, including Business Reference, Certification, Cisco, Creative Media, Database, Desktop Productivity, e-Business, Enterprise Computing, Java, Linux/Unix, 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

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Class 7: Emacs and org-mode (...)

ProQuest Tech Books - Search

+

proquest.safaribooksonline.com/search?q=emacs

Google

Safari Books Online

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Category

Desktop and Web Applications (127)

Digital Media (103)

Engineering (7)

Information Technology & Software Development (1105)

More >

Publication Year

2012 (24)

2011 (104)

2010 (96)

2009 (115)

More >

Authors

Christopher Negus (18)

David Pogue (17)

Arnold Robbins (15)

Larry Ullman (14)

More >

Search Results for: emacs

[Add Term(s) to Narrow Your Search]

All Results

SEARCH WITHIN RESULTS

Books (1302 Results)


Show: ☒ Books ☒ Short Cuts

☐ Include Previous Editions

Sort By: Relevancy

1-20 of 1302 Items < Prev | 1 2 3 4 5 ... 66 | Next >

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

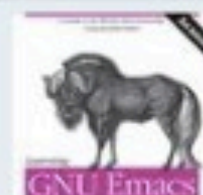
Chapter Title: Emacs

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

zotero

Saturday, June 30, 12

Ubuntu® Linux® Bible: Featuring Ubuntu 10.04 LTS, Third Edition > Working with Text Files > Using Emacs - Pg. : Safari Books Online

Class 7: Emacs and org-mode (...) Ubuntu® Linux® Bible: Featurin... +

proquest.safaribooksonline.com/9780470604502/using_emacs?query=((em ☆ Google

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This Book

Ubuntu® Linux® Bible: Featuring Ubuntu 10.04 LTS, Third Edition

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- Pt. I. Getting Started With Ubuntu
- Pt. II. Ubuntu for Desktop Users

< Return to Search Results

HTML VIEW FULL SCREEN

Chapter 12. Working with Text Files > Using Emacs

URL SHOW SEARCH TERMS

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

zotero

First, what is installed?

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

dpkg --get-selections | head
adduser                                install
apel                                  install
apparmor                              install
apparmor-utils                        install
appport                               install
appport-symptoms                      install
apt                                    install
apt-transport-https                   install
apt-utils                             install
apt-xapian-index                      install

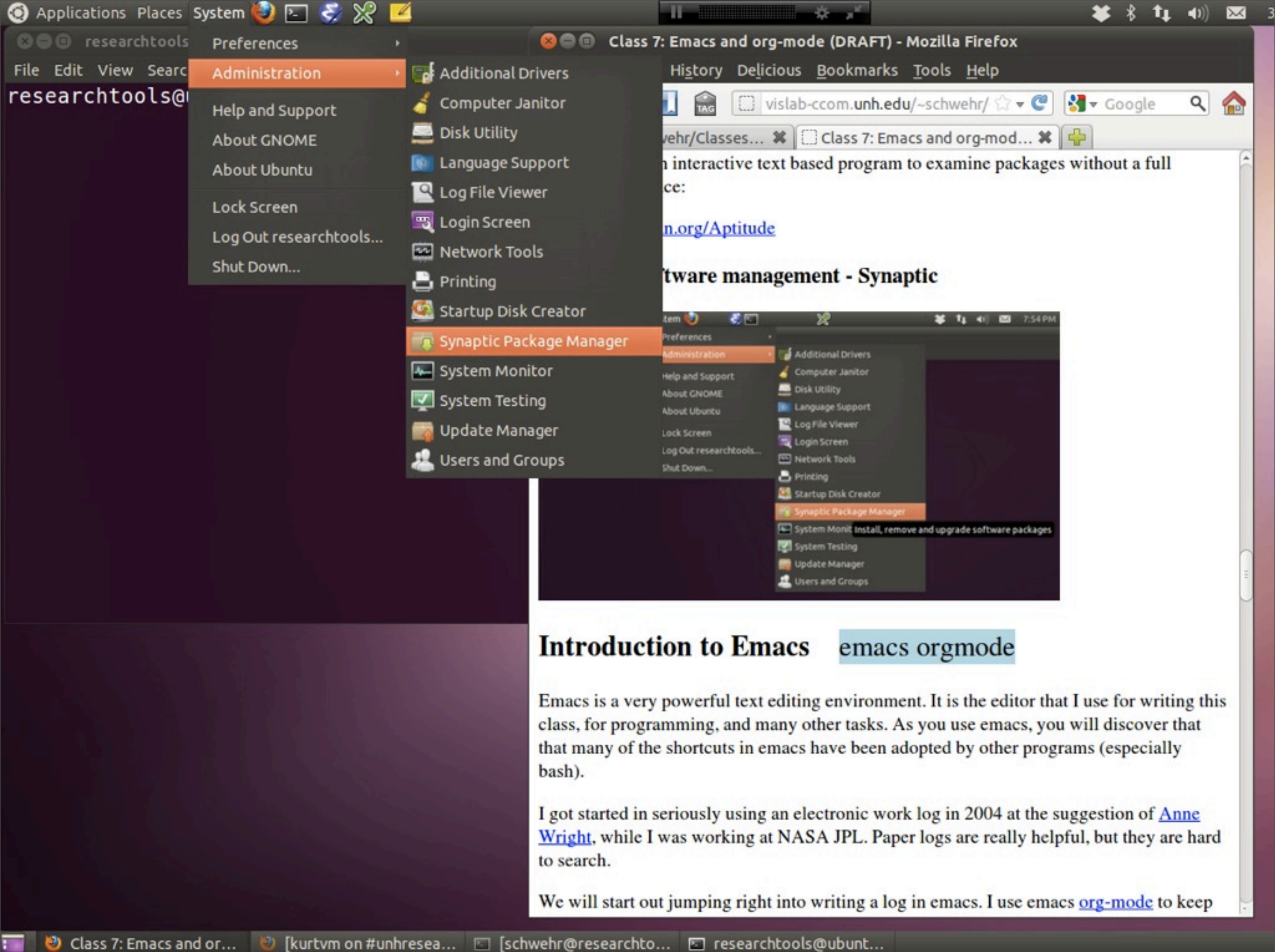
dpkg --get-selections | grep emacs
emacs                                  install
emacs-jabber                          install
emacs23                              install
emacs23-bin-common                    install
emacs23-common                        install
emacs23-no-common                     install
python-ropemacs                       install
```

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

```
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.

```
dpkg --get-selections | grep bin | head
/usr/bin
/usr/bin/GMT
```

Introduction to Emacs `emacs orgmode`

Emacs is a very powerful text editing environment. It is the editor that I use for writing this class, for programming, and many other tasks. As you use emacs, you will discover that that many of the shortcuts in emacs have been adopted by other programs (especially bash).

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

All	S	Package	Installed Version	Latest Version	Description
Amateur Radio (universe)	<input type="checkbox"/>	2ping		1.0-1	Ping utility to determine directional packe
Communication	<input type="checkbox"/>	2vcard		0.5-3	perl script to convert an addressbook to V
Communication (multivers	<input type="checkbox"/>	3270-common		3.3.10ga4-2	Common files for IBM 3270 emulators and
Communication (universe)	<input type="checkbox"/>	3dchess		0.8.1-17	Play chess across 3 boards!
Cross Platform	<input type="checkbox"/>	3depict		0.0.2-1	visualisation and analysis for single valued
Cross Platform (multiverse)	<input type="checkbox"/>	4g8		1.0-3	Packet Capture and Interception for Switch
Cross Platform (universe)	<input type="checkbox"/>	6tunnel		0.11rc2-5	TCP proxy for non-IPv6 applications
Databases	<input type="checkbox"/>	9base		1:6-4	Plan 9 userland tools
Databases (universe)	<input type="checkbox"/>	9menu		1.8-5	Creates X menus from the shell

No package is selected.

33720 packages listed, 1709 installed, 0 broken. 0 to install/upgrade, 0 to remove

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


Applications Places System

Org: Your Life in Plain Text - Mozilla Firefox

File Edit View History Delicious Bookmarks Tools Help

orgmode.org

Org: Your Life in Plain Text




Org: Your Life in Plain

Org-mode; gestalt of The One True Editor. Sentience is close
Hoskins on Twitter



[Home](#)
[Download](#)
[Documentation](#)
[Community](#)
[News](#)
[More](#)

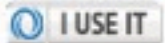
Mentions of Org mode
#orgmode



neil_smithline
@nilcolor I don't know what you said but I think the appropriate response is [blt.ly/AndroidMobileO...](#)
#orgmode #emacs #android
23 hours ago · reply · favorite

299 the conversation



Text/code available under GPLv3 and GNU FDLv1.3

Transferring data from connect.facebook.ne...

Class 7: Emacs and org-mode (DRAFT) - Mozilla Firefox

File Edit View History Delicious Bookmarks Tools Help

vislab-ccom.unh.edu/~schwehr/

Index of /~schwehr/Classes... Class 7: Emacs and org-mod... Users and Groups

Introduction to Emacs emacs orgmode

Emacs is a very powerful text editing environment. It is the editor that I use for writing this class, for programming, and many other tasks. As you use emacs, you will discover that that many of the shortcuts in emacs have been adopted by other programs (especially bash).

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 kurt-????.{txt,org}
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
```

Class 7: Emacs and or...

[kurtvm on #unhresear...

[schwehr@researchto...

researchtools@ubunt...

Org: Your Life in Plain ...

Saturday, June 30, 12

2010 Work Log

SIId: kurt-2010.org 15146 2011-01-03 14:55:51Z schwehr \$

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- [Jan 02 - Dover, NH](#)
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 - [RDC AIS feed](#)
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 - [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...

- If variable resolution grids come along, how will we do KML export?
- The people generating BAGS need to know what are the likely uses and have a tool outside of Caris to preview the bag bathy, uncertainty, and especially the metadata
- The "skunk stripe" survey style is going to preclude surveys being used by some people outside of hydrographic survey. Need full coverage for IOCM?

Learning more about Org Mode `org`

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:

<http://emacs-fu.blogspot.com/2009/12/automatically-checking-your-spelling.html>

```
; 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.

http://www.gnu.org/software/emacs/emacs-lisp-intro/html_node/index.html

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-configs/org-customization-survey.php>

Looks like setting org-agenda-ndays 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... `(org-keep) (todo-category-keep priority-down) (tags-category-keep priority-down))`

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:



Transferring data from cowfish.unh.edu...


```
sudo apt-get install emacs-goodies-el
sudo apt-get install texlive
sudo apt-get install texlive-latex-extra
```

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

researchtools@ubuntu: ~

File Edit View Search Terminal Help

researchtools@ubuntu:~\$ mkdir -p class/07

researchtools@ubuntu:~\$

ics and org-mode (DRAFT) - Mozilla Firefox

History Delicious Bookmarks Tools Help

vislab-ccom.unh.edu/~schwehr/ Google

Classes... Class 7: Emacs and org-mod...

```

install emacs-goodies-el
install texlive
install texlive-latex-extra

```

ction to using emacs for basic files here. This really needs a video of what I'm doing.

ctory
C-s

outlining

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emacs23@ubuntu

File Edit Options Buffers Tools Help

Visit New File... C-x C-f
 Open File...
Open Directory... C-x d
 In Read a directory, to operate on its files
 Close
 Save C-x C-s
 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



component of the [GNU/Linux](#) operating system.

basic keystroke commands
 view of Emacs features at [gnu.org](#)
 the Emacs manual using Info
 Emacs comes with **ABSOLUTELY NO WARRANTY**
 conditions for redistributing and changing Emacs
 using printed copies of manuals

[Home Directory](#) [Customize Startup](#)






nd, type Control-g.




g-linux-gnu, GTK+ Version 2.24.4)
 ed by Debian
 , Inc.

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

and org-mode (DRAFT) - Mozilla Firefox

y Delicious Bookmarks Tools Help

[vislab-ccom.unh.edu/~schwehr/](#)    Google  

sses...  Class 7: Emacs and org-mod...  

all emacs-goodies-el
 all texlive
 all texlive-latex-extra

on to using emacs for basic files here. This really needs a video of
 at I'm doing.

ry
 -s

Outlining

le is very similar to Mediawiki. However, the characters used to
 ghtly different. There are large numbers of markup languages, but
 is right now.

org mode file. Org-mode starts by default if the file name ends in
 New File" and pick type in "example.org".

is to use the keyboard shortcut:

g

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

A screenshot of a Mac OS X file selector dialog. The window has a title bar with a pencil icon, a back arrow, and a folder icon labeled 'researchtools'. In the top right corner is a 'Create Folder' button. On the left is a 'Places' sidebar with a search icon and a list of locations: Search, Recently Used, researchtools (selected), Desktop, File System, Floppy Drive, Documents, Music, Pictures, Videos, and Downloads. Below this sidebar are 'Add' and 'Remove' buttons. The main area is a table with columns 'Name', 'Size', and 'Modified'. It lists folders like 'class', 'Desktop', 'Documents', 'Downloads', 'Dropbox', 'Music', 'Pictures', 'Public', 'Templates', 'test', and 'Videos'. Below these are files: 'dropbox_1.4.0_i386.deb' (90.5 KB, 04/25/2012), 'examples.desktop' (179 bytes, 09/01/2011), and 'kurt.kdb' (1.2 KB, 08:27). At the bottom left is a checkbox for 'Show hidden files.'. At the bottom center is a message: 'If you don't like this file selector, use the corresponding key binding or customize use-file-dialog to turn it off.'. At the bottom right are 'Cancel' and 'Open' buttons.

The screenshot shows a Mozilla Firefox browser window. The address bar contains the URL "du/~schwehr/". The page content includes the following text:

basic files here. This really needs a video of

diawiki. However, the characters used to
e large numbers of markup languages, but

le starts by default if the file name ends in
in "example.org".

shortcut:

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

emacs23@ubuntu

File Edit Options Buffers Tools Operate Mark Regexp Immediate Subdir Help



```
/home/researchtools:
total used in directory 320 available 12150072
drwxr-xr-x 33 researchtools researchtools 4096 2012-06-30 14:53 .
drwxr-xr-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-xr-x  7 researchtools researchtools 4096 2012-06-30 14:44 .cache
drwxr-xr-x  4 researchtools researchtools 4096 2012-06-30 15:47 class
drwxr-xr-x 11 researchtools researchtools 4096 2012-06-30 09:12 .config
drwx-----  3 researchtools researchtools 4096 2012-06-26 19:08 .dbus
drwxr-xr-x  2 researchtools researchtools 4096 2012-06-30 14:44 Desktop
-rw-r--r--  1 researchtools researchtools   63 2012-06-30 14:40 .dmrc
drwxr-xr-x  2 researchtools researchtools 4096 2012-06-26 19:08 Documents
drwxr-xr-x  2 researchtools researchtools 4096 2012-06-26 19:08 Downloads
drwx-----  3 researchtools researchtools 4096 2012-06-30 14:42 .dropbox
drwx----- 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
drwxr-xr-x  4 researchtools researchtools 4096 2012-06-30 09:12 .dropbox-dist
drwxr-xr-x  3 researchtools researchtools 4096 2012-06-26 19:33 .emacs.d
-rw-----  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
drwxr-xr-x  2 researchtools researchtools 4096 2012-06-30 07:52 .fontconfig
drwx-----  4 researchtools researchtools 4096 2012-06-30 14:40 .gconf
drwx-----  2 researchtools researchtools 4096 2012-06-30 15:47 .gconfd
-rw-r-----  1 researchtools researchtools    0 2012-06-30 15:35 .gksu.lock
drwx-----  7 researchtools researchtools 4096 2012-06-30 14:41 .gnome2
drwx-----  2 researchtools researchtools 4096 2012-06-28 22:03 .gnome2_private
-rw-r--r--  1 researchtools researchtools  177 2012-06-30 14:40 .gtk-bookmarks
dr-x-----  2 researchtools researchtools    0 2012-06-30 14:40 .gvfs
-rw-----  1 researchtools researchtools 1272 2012-06-30 14:40 .ICEauthority
-rw-r--r--  1 researchtools researchtools 1228 2012-06-30 08:27 kurt.kdb
```

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

s-3 is undefined

Find file:

Name:

Save in folder:

▼ Browse for other folders

researchtools

class

07

Create Folder

Places

Search

Recently Used

researchtools

Desktop

File System

Floppy Drive

Documents

Music

Pictures

Videos

Downloads

Add

Remove

Name	Size	Modified
------	------	----------

☐ Show hidden files.















If you don't like this file selector, use the corresponding key binding or customize use-file-dialog to turn it off.

Cancel

OK

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help

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

OVERVIEW

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help

Show/Hide
 New Heading M-RET
 Navigate Headings
 Edit Structure
 Editing
 Archive
 Hyperlinks
 TODO Lists
 TAGS and Properties
 Dates and Scheduling
 Logging work
 Agenda Command...
 Set Restriction Lock C-c C-x <
 File List for Agenda
 Special views current file
 Export/Publish... C-c C-e
 LaTeX
 MobileOrg
 Documentation
 Customize
 Send bug report
 Refresh/Reload

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

Firefox

Help

ehrf/ ☆ Google

org-mod...
 C Virtual Machine. Without a
 code colored. It is a part of the
 documents.

here. This really needs a video of

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

by default if the file name ends in
 ple.org".

C-x C-f example.org

At the bottom of the window, you will see:

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

emacs23@ubuntu

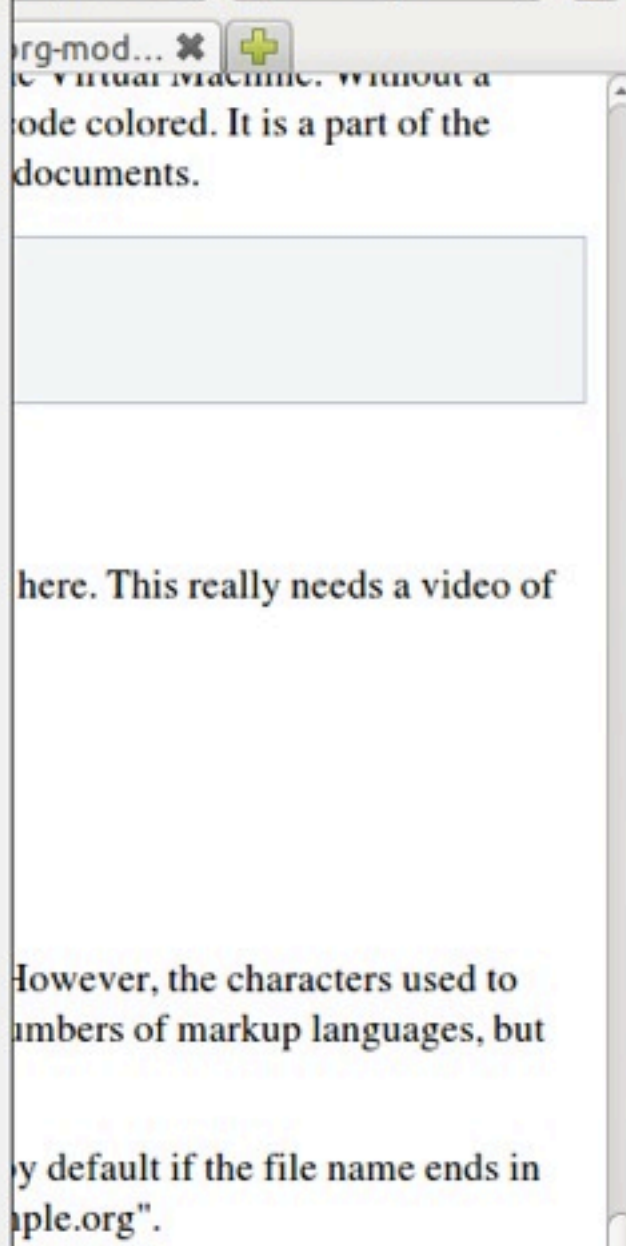
File Edit Options Buffers Tools Minibuf Help



--:--- example.org All L1 (Org)-----
M-x tetris

Firefox

Help



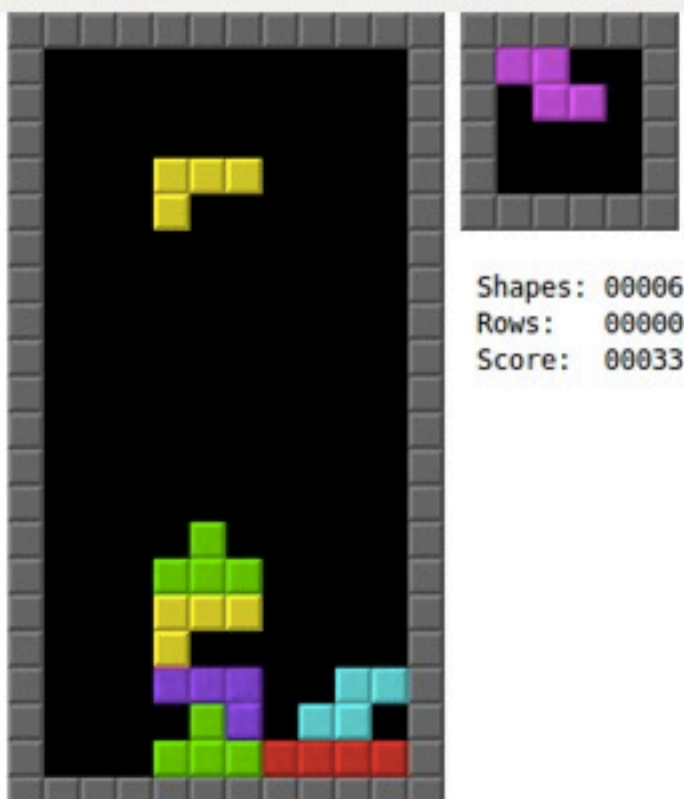
C-x C-f example.org

At the bottom of the window, you will see:

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

emacs23@ubuntu

File Edit Options Buffers Tools Help






Shapes: 00006
Rows: 00000
Score: 00033

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

Firefox

Help

ehr/ ☆ ▾  Google 🔍 

org-mod... ✕ 

Virtual Machine. Without a
code colored. It is a part of the
documents.

here. This really needs a video of

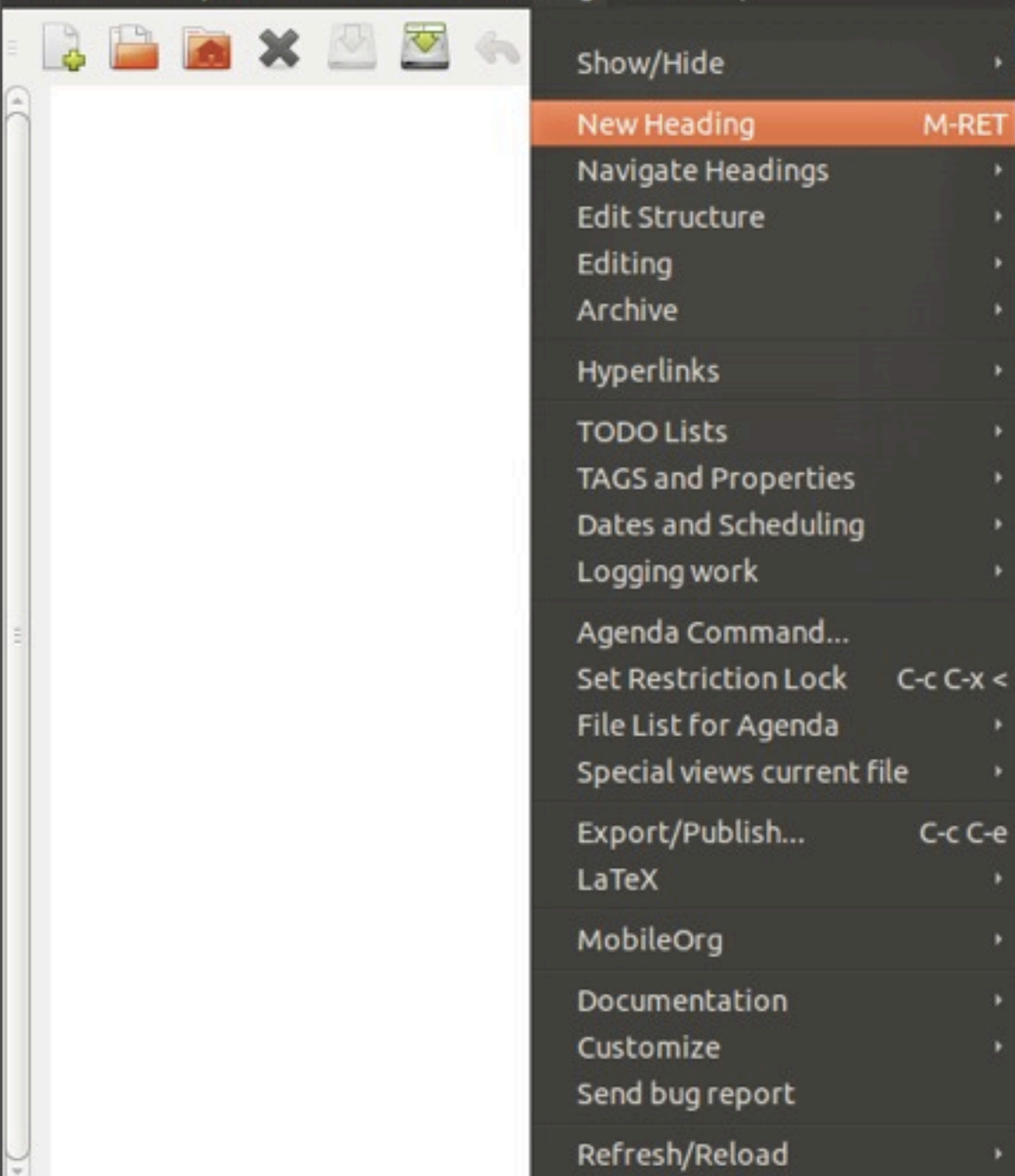
However, the characters used to
umbers of markup languages, but

by default if the file name ends in
ple.org".

C-x C-f example.org

At the bottom of the window, you will see:

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



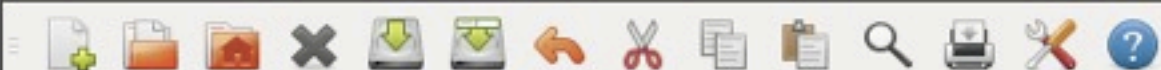
U: --- example.org All L1 (Org) ----- publish" or "export" the document.

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



ehrf/



org-mod...

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

by default if the file name ends in
ple.org".

der the "Org" and "Tbl" (meaning
. Select Org -> New Heading.
more "*" characters followed by

* 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...

```
-U: --- example.org All L6 (Org)
```

 FOLDED

LISTS START WITH - . A LIST LOOKS LIKE THIS:

- first item
- another item
- yet another














The list will look like this:

by default if the file name ends in
apple.org".

der the "Org" and "Tbl" (meaning
. Select Org -> New Heading.
more "*" characters followed by

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help

```

* A first heading
some text under the first heading

* A Second heading


** sub heading
** another sub heading
    
```

-U:--- example.org All L8 (Org)-----

SUBTREE (NO CHILDREN)

Firefox

Help

eh/    Google  

org-mod...  

by default if the file name ends in
ple.org".

der the "Org" and "Tbl" (meaning
. Select Org -> New Heading.
more "*" characters followed by

Lists start with - . A list looks like this:

```

- first item
- another item
- yet another
    
```

The list will look like this:

Visit New File... C-x C-f
Open File...
Open Directory... C-x d
Insert File... C-x i
Close

Save C-x C-s

Save As... C-x C-w

Save current buffer to its file

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

qwrfa;lsdfjha

U: *- example.org All L12 (Org)

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

- first item
- another item
- yet another

The list will look like this:

by default if the file name ends in
ple.org".

der the "Org" and "Tbl" (meaning
. Select Org -> New Heading.
more "*" characters followed by

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help



```
* A first heading
some text under the first head

* A Second heading

** sub heading

** another sub heading

asdfadfasdf;laksjdf;owieuroiqv
```

- Show/Hide
- New Heading M-RET
- Navigate Headings
- Edit Structure
- Editing
- Archive
- Hyperlinks
- TODO Lists
- TAGS and Properties
- Dates and Scheduling
- Logging work
- Agenda Command...
- Set Restriction Lock C-c C-x <
- File List for Agenda
- Special views current file
- Export/Publish... C-c C-e**
- LaTeX
- MobileOrg
- Documentation
- Customize
- Send bug report
- Refresh/Reload

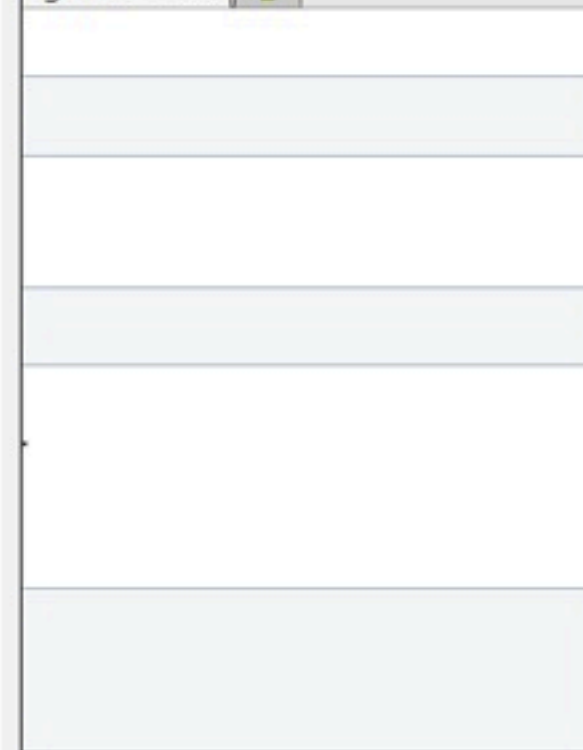
-U:--- example.org All L12 (Org)-----
 Wrote /home/researchtools/class/07/example.org

Firefox

Help

ehrf/ ☆ Google

org-mod... ✕



publish" or "export" the document.

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"

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help

* A first heading

some text under the first heading

* A Second heading

** sub heading

** another sub heading

asdfadfasdf;laksjdf;owieuroiqwrfa;lsdfjha

Firefox

Help

ehrf/ Google

org-mod...

-U: example.org All L13 (Org)-----

C-c-

publish" or "export" the document.

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".

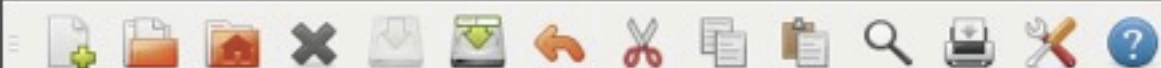
Press the letter "b"

Class 7: Emacs and or... [kurtvm on #unhrese... [schwehr@researchto... emacs23@ubuntu

Saturday, June 30, 12

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help



** another sub heading

asdfadfasdf;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      [A/N/U] to temporary buffer

[h] export as HTML      [H] to temporary buffer  [R] export region
[b] export as HTML and open in browser

[l] export as LaTeX      [L] to temporary buffer
[p] export as LaTeX and process to PDF      [d] ... and open PDF file

[D] export as DocBook  [V] export as DocBook, process to PDF, and open

[j] export as TaskJuggler      [J] ... and open

[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  [c] ...as one combined file

[F] publish current file      [P] publish current project
[X] publish a project...      [E] publish every projects

```

-U:%%- *Org Export/Publishing Help* All L1 (Help View)-----

Select command:

Firefox

Help



org-mod... X +

publish" or "export" the document.

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

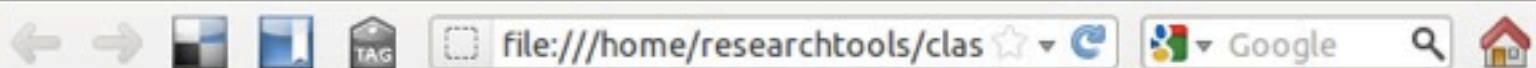
* A Second heading

** sub heading

** another sub heading

asdfadfasdf;laksjdf;owieuroiqwrfa;lsdfjha

-U:--- example.org All L12 (Org)-----
HTML export done, pushed to kill ring and clipboard



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

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help

* A first heading

some text under the first heading

* A Second heading

** sub heading

** another sub heading

-U:**- example.org All L12 (Org)-----

Auto-saving...done

The Center for Coastal and Ocean Mapping | Map once, use many times. - Mozilla


File Edit View History Delicious Bookmarks Tools Help

com.unh.edu

Class 7: Emacs and org... The Center for Coastal...

Center for Coastal and Ocean Mapping Joint Hydrographic Center

Research Education Outreach News & Events



A Whale

CCOM/JHC re
and Roland Ar
multiple agen
iPhone app th
endangered ri

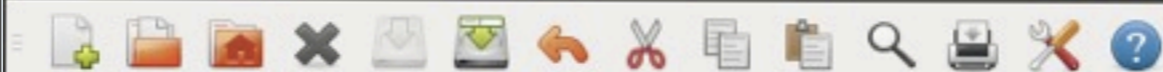
CCOM/JHC News

Diving Deeper: Safe Navigation
National Ocean Service Jun. 21, 2012
CCOM alum Rachel Soraruf Medley was interviewed for this National Ocean Service podcast about nautical charts. [More >](#)

NOAA to Commission East Coast Survey Ship

Upcoming and Recent

Who is Gideon Tibor and What Does He Do?
Gideon Tibor
Visiting Scho
CCOM/JHC
Friday, Jun. 1,



* 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>

-U:--- example.org All L15 (Org)-----
Wrote /home/researchtools/class/07/example.org

by default if the file name ends in
ple.org".

der the "Org" and "Tbl" (meaning
. Select Org -> New Heading.
more "*" characters followed by

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

- first item
- another item
- yet another

The list will look like this:

ApplicationsPlacesSystem

emacs23@ubuntu

FileEditOptionsBuffersToolsOrgTblHelp

* 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>

example.org

All L11

(Org)

HTML export done, pushed to kill ring and clipboard

example - Mozilla Firefox

FileEditViewHistoryDeliciousBookmarksToolsHelp

file:///home/researchtools/clas

Google

Index of /~schwehr/Cl...Class 7: Emacs and org...example

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

example - Mozilla Fire...[kurtvm on #unhresea...[schwehr@researchto...emacs23@ubuntu

Saturday, June 30, 12



* 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>



UNIVERSITY of NEW HAMPSHIRE

About UNH Academics Admissions Arts Engagement/Extension Research Alumni Donors Faculty



NEWS

Campus Emergency Notification System to Be Tested Thursday, July 5

UNH-IOL Launches New Consortium Dedicated to the Connected Home

Updated Data: UNH Contributes More Than \$1.4 Billion to State Economy Every Year; Responsible for Providing Quarter of All Skilled Workers



ATHLETICS

Jumpp, Dow Set for Olympic Track & Field Trials

Northeast Passage Educates Campers at Wildcat Kids' Week

UNH Incoming Swimmer Jennifer Roberts Competes in U.S. Olympic Trials

Evans Named BSN Preseason Football All-American

CALENDAR

Summer Youth Music Sch
Creative Arts Center
07/09/2012

STARS Theatre and Dance
Creative Arts Center
07/09/2012

Summer Youth Music Sch
- Paul Creative Arts Center
07/15/2012

- Visit New File... C-x C-f
- Open File...
- Open Directory... C-x d
- Insert File... C-x i
- Close
- Save C-x C-s**
- Save As... C-x C-w
- Revert **Save current buffer to its file**
- 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

-U: *- example.org All L17 (Org) -

by default if the file name ends in
ple.org".

der the "Org" and "Tbl" (meaning
. Select Org -> New Heading.
more "*" characters followed by

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

- first item
- another item
- yet another

The list will look like this:


```
/home/researchtools/class/07:
total used in directory 28 available 12144756
drwxr-xr-x 2 researchtools researchtools 4096 2012-06-30 16:10 .
drwxr-xr-x 4 researchtools researchtools 4096 2012-06-30 15:47 ..
-rw-r--r-- 1 researchtools researchtools 4327 2012-06-30 16:09 example.html
-rw-r--r-- 1 researchtools researchtools 153 2012-06-30 16:02 example.html~
-rw-r--r-- 1 researchtools researchtools 177 2012-06-30 16:10 example.org
-rw-r--r-- 1 researchtools researchtools 91 2012-06-30 15:58 example.org~
```

```
-U:%%- 07 All L5 (Dired by name)-
```

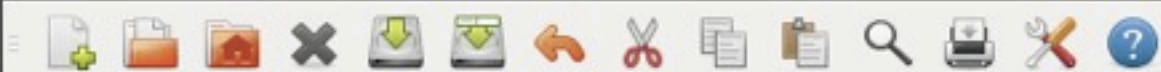
```
** another sub heading
```

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

```
-U:--- example.org Bot L17 (Org)-
```

```
| Column header | something else |
|-----+-----|
| hello        | world          |
| a second entry | what do you want to say? |
```

Would look like this:



* 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

Column 1	another column
Some data	moredata
1234	

publish" or "export" the document.

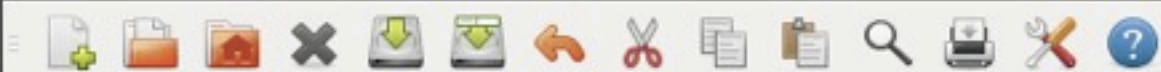
by trying "export as HTML and

example.html".

with all "—" characters create

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

Would look like this:



* 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

Column 1	another column
Some data	moredata
1234	

publish" or "export" the document.

by trying "export as HTML and

example.html".

with all "—" characters create

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

Would look like this:

- * 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

Column 1	another column
Some data 1234	moredata

```
-U:**- example.org All L20 (Org)
```

```
| Column header | something else |
|-----+-----|
| hello        | world          |
| a second entry | what do you want to say? |
```

Would look like this:

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help

Show/Hide

New Heading M-RET

Navigate Headings

Edit Structure

Editing

Archive

Hyperlinks

TODO Lists

TAGS and Properties

Dates and Scheduling

Logging work

Agenda Command...

Set Restriction Lock C-c C-x <

File List for Agenda

Special views current file

Export/Publish... C-c C-e

LaTeX

MobileOrg

Documentation

Customize

Send bug report

Refresh/Reload

* A first heading

some text under the first head

* A Second heading

** sub heading

** another sub heading

- <http://ccom.unh.edu/>

- <http://yahoo.com>

- <http://unh.edu>

* A table

Column 1	another column
Some data	moredata
1234	

Firefox

Help

eh/

Google

org-mod...

publish" or "export" the document.

by trying "export as HTML and

example.html".

with all "—" characters create

-U:**- example.org All L23 (Org)-

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

Would look like this:

Class 7: Emacs and or... [kurtvm on #unhrese... [schwehr@researchto... emacs23@ubuntu

Saturday, June 30, 12



* A first heading

some text under the first heading

* A Second heading

** sub heading

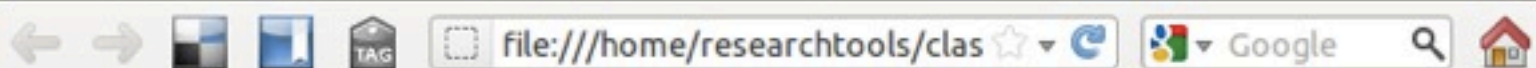
** another sub heading

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

* A table

Column 1	another column
Some data 1234	moredata

-U:**- example.org All L20 (Org)-----
HTML export done, pushed to kill ring and clipboard



- [1 A first heading](#)
- [2 A Second heading](#)
 - [2.1 sub heading](#)
 - [2.2 another sub heading](#)
- [3 A table](#)

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

Column 1	another column
----------	----------------

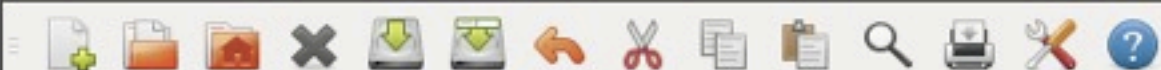
Some data	moredata
-----------	----------

1234	
------	--

Author: researchtools

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

HTML generated by org-mode 7.4 in emacs 23



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

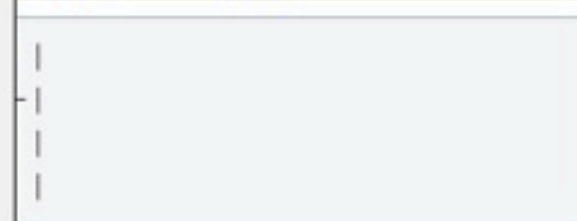
* A table

Column 1	another column
Some data 1234	moredata

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

-U:**- example.org Bot L25 (Org)

C-c C-c



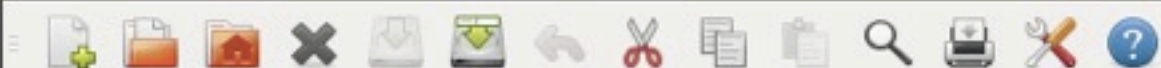
cks. Inside of an example, it will

```
#+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>
- <http://www.tiddlywiki.com/>
- <http://www.google.com/notebook>

See also: [Comparison of Notetaking Software](#) and [Comparison of Wiki Software](#)



```
[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      [A/N/U] to temporary buffer

[h] export as HTML      [H] to temporary buffer  [R] export region
[b] export as HTML and open in browser

[l] export as LaTeX      [L] to temporary buffer
[p] export as LaTeX and process to PDF      [d] ... and open PDF file

[D] export as DocBook  [V] export as DocBook, process to PDF, and open

[j] export as TaskJuggler      [J] ... and open

[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
```

-U:%%- *Org Export/Publishing Help* Top L1 (Help View)-----

Select command:



cks. Inside of an example, it will

```
#+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>
- <http://www.tiddlywiki.com/>
- <http://www.google.com/notebook>

See also: [Comparison of Notetaking Software](#) and [Comparison of Wiki Software](#)



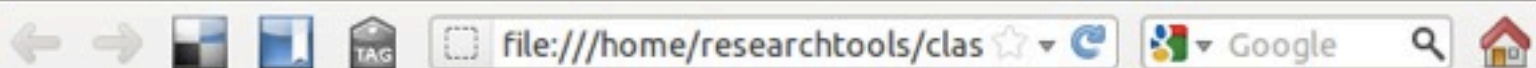
- <http://ccom.unh.edu/>
- <http://yahoo.com>
- <http://unh.edu>

* A table

Column 1	another column
Some data 1234	moredata

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

-U:**- example.org Bot L27 (Org)-
HTML export done, pushed to kill ring and clipboard



Index of /~s... Class 7: Ema... example example example

- [3 A table](#)

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

Column 1	another column
----------	----------------

Some data	moredata
-----------	----------

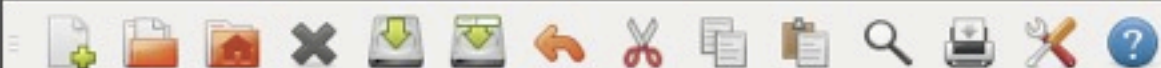
1234	
------	--

- [] 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



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

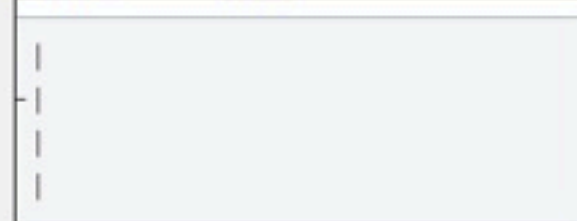
* A table

Column 1	another column
Some data 1234	moredata

- [] 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>



cks. Inside of an example, it will

```
#+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
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- <http://www.tiddlywiki.com/>
- <http://www.google.com/notebook>

See also: [Comparison of Notetaking Software](#) and [Comparison of Wiki Software](#)

emacs23@ubuntu

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 C-x C-s

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

C-x 3 <- Split sideways

Selected window grows to fill the whole frame

<2012-07-0> "." is a "

<2012-07-0> "." is a "period" in Ame

C-x 1 <- > <2012-07-0> <2012-07-01 Sun>

-U:**- exampl

<2012-07-0>

C-x 1 <- > C-x 1 <- Unsplits your

C-x 2 <- > C-x 2 <- Split window

C-x 1 <- > C-x 3 <- > C-x 3 <- Split sideways

-U:**- exampl-U:**- exampl-U:**- example.org Bot L

<2012-07-01 Sun>

C-x 1 <- Unsplits your window

C-x 2 <- Split window

C-x 3 <- Split sideways

(Org)----- -U:**- example.org Bot L33 (Org)-----

h things.

n English and "full-stop" in British English

Example.org Bot L34 (Org)-----

Firefox

Help

Google

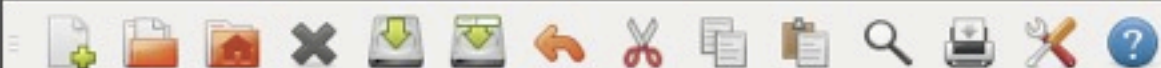
Google

Example.org

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>

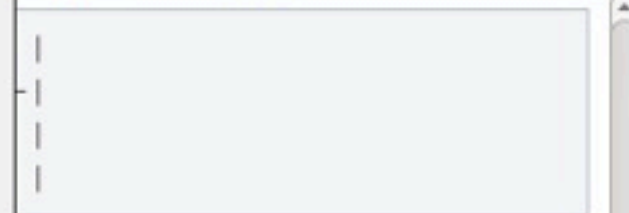
C-x 1 <- Unsplits your window
C-x 2 <- Split window
C-x 3 <- Split sideways

-U:**- example.org Bot L33 (Org)-

menu-bar file one-window



ehrf/ ☆ Google



cks. Inside of an example, it will



ing

- 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](#)

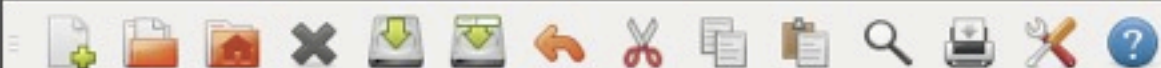
May 2012						
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

June 2012						
Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

July 2012						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- 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](#)



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

Column 1	another column
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

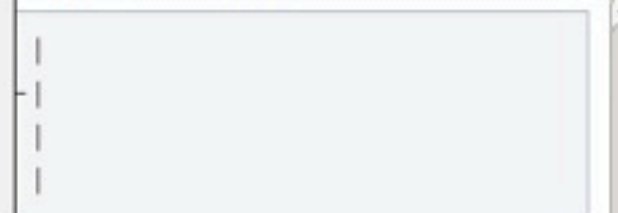
<2013-07-01 Mon>

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

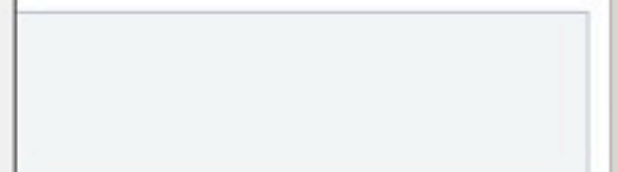
-U:**- example.org Bot L30 (Org)-



ehrf/ ☆ Google



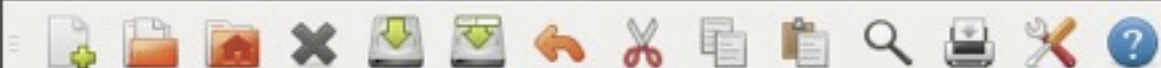
cks. Inside of an example, it will



ing

- 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](#)



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

Column 1	another column
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

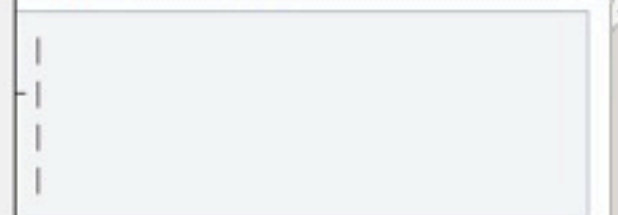
<2024-07-06 Sat>

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

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



ehrf/ ☆ Google



cks. Inside of an example, it will



ing

- 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](#)


```

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 Br

<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
echo "Hello World"
#+END_SRC

```

-U:--- example.org Bot L41 (Org)-----
HTML export done, pushed to kill ring and clipboard

v/hw-2-shell-and-org-mode.html

Homework 2: comman... Class 7: Emacs and org... example

- [] What is the URL for the Wikipedia Entry on Multibeam Sonars?

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

Download this file using wget: <http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/examples/2007-boston-construction.csv.bz2>

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

```
wget http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchto
```

Results:

```

--2011-09-16 03:47:58-- http://vislab-ccom.unh.edu/~schwehr/Classes/20
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...n-construction.csv.bz2 [n/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 Br

<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:

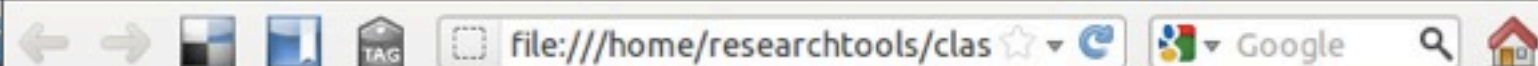
```
#+BEGIN_EXAMPLE
```

```
yada yada
```

```
#+END_EXAMPLE
```

-U:--- example.org Bot L45 (Org)-----

HTML export done, pushed to kill ring and clipboard



Class 7: Emacs and org-mod... example

3 A table

Column 1	another column
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

4 Add some source code

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

An example:

```
yada yada
```

Author: researchtools

Date: 2012-06-30 16:37:18 PDT

HTML generated by org-mode 7.4 in emacs 23


```
researchtools@ubuntu:~$ mkdir -p hw/2
```

```
researchtools@ubuntu:~$ cd hw/2
```

```
researchtools@ubuntu:~/hw/2$ wget http://tinyurl.com/hw-2-shell-and-org-mode-dotorg
```

```
--2012-06-30 16:39:42-- http://tinyurl.com/hw-2-shell-and-org-mode-dotorg
Resolving tinyurl.com... 64.62.243.91, 64.62.243.92
Connecting to tinyurl.com[64.62.243.91]:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/hw/hw-2-shell-and-org-mode.org [following]
--2012-06-30 16:39:43-- http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/hw/hw-2-shell-and-org-mode.org
Resolving vislab-ccom.unh.edu... 192.168.3.3
Connecting to vislab-ccom.unh.edu[192.168.3.3]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 10338 (10K) [text/plain]
Saving to: `hw-2-shell-and-org-mode-dotorg'
```

```
100%[=====] 10,338 --.-K/s in 0.07s
```

```
2012-06-30 16:39:44 (145 KB/s) - `hw-2-shell-and-org-mode-dotorg' saved [10338/10338]
```

- [] 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/3fjc
```

4 **TODO** A little org mode intro

GIN_SRC" or "#+VERSE" sections when they

in the line and use C - C C - C to mark the

ent on your own first. But it is okay to check
strongly recommend that you have another

tail.

started

researchtools@ubuntu: ~/hw/2

File Edit View Search Terminal Help

```
--2012-06-30 16:39:42-- http://tinyurl.com/hw-2-shell-and-org-mode-dotorg
Resolving tinyurl.com... 64.62.243.91, 64.62.243.92
Connecting to tinyurl.com[64.62.243.91]:80... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/hw/hw-2-shell-and-org-mode.org [following]
--2012-06-30 16:39:43-- http://vislab-ccom.unh.edu/~schwehr/Classes/2011/esci895-researchtools/hw/hw-2-shell-and-org-mode.org
Resolving vislab-ccom.unh.edu... 192.168.3.3
Connecting to vislab-ccom.unh.edu[192.168.3.3]:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 10338 (10K) [text/plain]
Saving to: `hw-2-shell-and-org-mode-dotorg'

100%[=====>] 10,338      --.-K/s   in 0.07s

2012-06-30 16:39:44 (145 KB/s) - `hw-2-shell-and-org-mode-dotorg' saved [10338/10338]
```

```
researchtools@ubuntu:~/hw/2$ mv hw-2-shell-and-org-mode-dotorg hw-2-shell-and-org-mode-dot.org
researchtools@ubuntu:~/hw/2$
```

g-mode - Mozilla Firefox

marks Tools Help

h.edu/~schwehr/ ☆ Google

GIN_SRC" or "#+VERSE" sections when they

in the line and use C - C C - C to mark the

ent on your own first. But it is okay to check
strongly recommend that you have another

tail.

started

- [] 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/3fjc
```

4 **TODO** A little org mode intro

Find file:

researchtools hw 2

Places

Search

Recently Used

researchtools

Desktop

File System

Floppy Drive

Documents

Music

Pictures

Videos

Downloads

Add

Remove

☐ Show hidden files.

Name	Size	Modified
hw-2-shell-and-org-mode-dot.org	10.1 KB	09/20/2011

If you don't like this file selector, use the corresponding key binding or customize use-file-dialog to turn it off.

Cancel

Open

zilla Firefox

Help

ehrr/

Google

or "#+VERSE" sections when they

and use C - C C - C to mark the

own first. But it is okay to check

ommend that you have another

hell-and-org-

org hw-2-shell-

wget and mv command with this:

mode.org http://tinyurl.com/3fjc

4 **TODO** A little org mode intro



```
#+STARTUP: showall
```

```
# Research Tools 2011 Homework Assignment by Kurt Schwehr. 2011-Sep-20
# Creative Commons Attribution-NonCommercial-ShareAlike 3.0 Unported License.
```

```
#+TITLE: Homework 2: command line and org-mode
```

```
#+AUTHOR: FIX: your name
```

```
#+EMAIL: FIX: your email
```

```
#+DATE: FIX: use C-. to put in the date
```

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

```
* 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 =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

```
-----hw-2-shell-and-org-mode-dot.org Top L1 (Org)-----
```

```
menu-bar file open-file
```



or "#+VERSE" sections when they

and use C - C C - C to mark the

own first. But it is okay to check
ommend that you have another

hell-and-org-

org hw-2-shell-

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/3fjc
```

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/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>
- [] 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-dot.org 11% L38 (Org)-----
```

Undo!



or "#+VERSE" sections when they

and use C - C C - C to mark the

own first. But it is okay to check
ommend that you have another

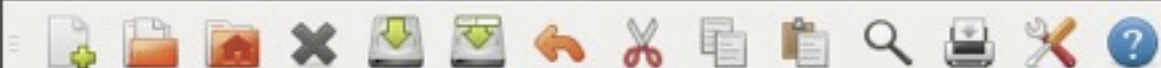
hell-and-org-

org hw-2-shell-

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/3fjdphv
```

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] `=wget http://tinyurl.com/hw-2-shell-and-org-mode-dotorg=`
- [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:

```
#+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>
- [] 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-dot.org 11% L44 (Org)-----
```

```
C-c C-c
```



or "#+VERSE" sections when they

and use C - C C - C to mark the

own first. But it is okay to check
ommend that you have another

hell-and-org-

org hw-2-shell-

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/3fjdphv
```

4 **TODO** A little org mode intro

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help

NOTE: You should complete the assignment. But it is okay to check over and strongly recommend that you have another person look at your work.

This assignment depends on attending the lecture.

* 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] =wget http://tinyurl.com/3fj6

- [X] =mv hw-2-shell-and-org-mode-dot.org hw-2-shell-and-org-mode-dot.org

- [X] start emacs and open the file

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-dot.org http://tinyurl.com/3fj6

#+END_SRC

* TODO A little org mode intro

This is what inline questions are answered for you and marked as done.

- [X] What is the CCOM website

http://ccom.unh.edu

- [] What is the website for this class inside of the virtual machine

Show/Hide

New Heading M-RET

Navigate Headings

Edit Structure

Editing

Archive

Hyperlinks

TODO Lists

TAGS and Properties

Dates and Scheduling

Logging work

Agenda Command...

Set Restriction Lock C-c C-x <

File List for Agenda

Special views current file

Export/Publish... C-c C-e

LaTeX

MobileOrg

Documentation

Customize

Send bug report

Refresh/Reload

TODO/DONE/- C-c C-t

Select keyword

Show TODO Tree C-c /t

Global TODO list C-c a t

Enforce dependencies

Settings for tree at point

Do Children sequentially C-c C-x o

Do Children parallel C-c C-x o

Set Priority C-c ,

Priority Up <S-up>

Priority Down <S-down>

Get news from all feeds C-c C-x g

Go to the inbox of a feed... C-c C-x G

Customize feeds

hw-2-shell-and-org-mode-dot.org 11% L36 (Org)

zilla Firefox

Help

ehrr/

Google

or "#+VERSE" sections when they

and use C - C C - C to mark the

own first. But it is okay to check

ommend that you have another

hell-and-org-

org hw-2-shell-

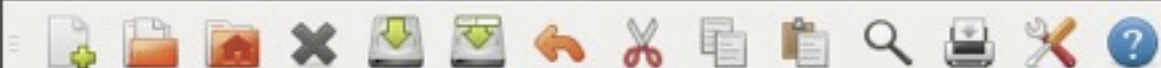
Or if you want to do less typing, you can replace the wget and mv command with this:

wget ----output-file=hw-2-shell-and-org-mode-dot.org http://tinyurl.com/3fj6

4 TODO A little org mode intro

Homework 2: comma... [kurtvm on #unhresear... [schwehr@researchto... emacs23@ubuntu researchtools@ubunt...

Saturday, June 30, 12



***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] `=wget http://tinyurl.com/hw-2-shell-and-org-mode-dotorg=`
- [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:

```
#+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>
- [] 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-dot.org 11% L36 (Org)-----
```

```
menu-bar Org TODO Lists TODO/DONE/-
```



or "#+VERSE" sections when they

and use C - C C - C to mark the

own first. But it is okay to check
ommend that you have another

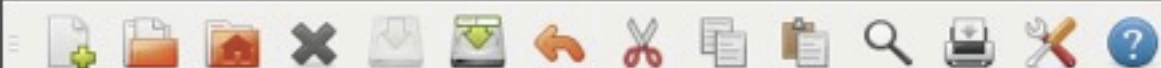
hell-and-org-

org hw-2-shell-

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/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:

```
#+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.

- ☒ What is the CCOM website?
<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)-----



or "#+VERSE" sections when they

and use C - C C - C to mark the

own first. But it is okay to check
commend that you have another

hell-and-org-

org hw-2-shell-

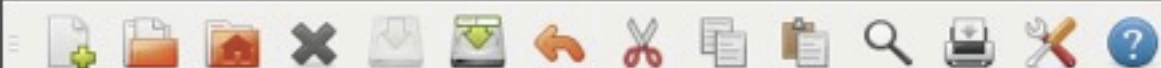
Or if you want to do less typing, you can replace the wget and mv command with this:

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

4 **TODO** A little org mode intro

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help



```
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
Length: 1030480 (1006K) [application/x-bzip2]
Saving to: `2007-boston-construction.csv.bz2'
```

```
100%[=====>] 1,030,480 51.4K/s in 27s
```

```
2011-09-16 03:48:25 (37.9 KB/s) - `2007-boston-construction.csv.bz2' saved [1030480/1030480]
```

```
#+END_EXAMPLE
```

```
** Uncompress
```

```
Use the correct command to uncompress 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
```

```
--:--- hw-2-shell-and-org-mode-dot.org 31% L109 (Org)-----
```

Mozilla Firefox

Help



or "#+VERSE" sections when they

and use C - C C - C to mark the

own first. But it is okay to check
commend that you have another

hell-and-org-

org hw-2-shell-

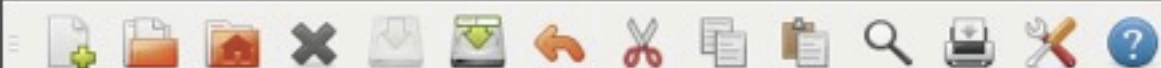
Or if you want to do less typing, you can replace the wget and mv command with this:

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

4 TODO A little org mode intro

emacs23@ubuntu

File Edit Options Buffers Tools Org Tbl Help



```
#+BEGIN_SRC sh
mkdir hw
cd hw
tar xf ~/hw2-YOURNAME.tar.bz2
mv ../hw22-YOURNAME.tar.bz2 .
#+END_SRC

Verify that your homework is in place.

#+BEGIN_SRC sh
ls -la hw2-YOURNAME/
total 28
drwxr-xr-x 2 schwehr domain users 4096 2011-09-16 05:57 .
drwxr-xr-x 3 schwehr domain users 4096 2011-09-20 09:42 ..
-rw-r--r-- 1 schwehr domain users 11904 2011-09-16 05:57 hw2-YOURNAME.html
-rw-r--r-- 1 schwehr domain users 4740 2011-09-16 05:57 hw2-YOURNAME.org
#+END_SRC

** 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
```

```
--:--- hw-2-shell-and-org-mode-dot.org Bot L348 (Org)-----
Mark set
```

<http://en.wikipedia.org/wiki/Md5sum>

Mozilla Firefox

Help



or "#+VERSE" sections when they

and use C - C C - C to mark the

own first. But it is okay to check

ommend that you have another

hell-and-org-

org hw-2-shell-

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