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Campus Computing News



Our building is being renamed, but our services remain the same

By Claudia Lynch, Benchmarks Onlin Editor

We here in Academic Computing and User Services have been informed that the Information Science Building will become Sycamore Hall effective June 1. The building designation ISB, therefore, becomes SYMR.



Summer Hours



By Claudia Lynch, Benchmarks Onlin Editor

The spring semester has ended and SUM, 3WK1, 8WK1 classes begin on Monday, May 16. Following are the hours for Computing and Information Technology Center-managed facilities during this time period and on through the summer.

Read more

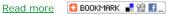


Summer's Almost Here - Time to Hit the Road Again



 ${f T}$ he waning days of every spring semester finds us here in ACUS preparing to take our act on the road. By this, I mean that it is the season when the ACUS Student Computing, Helpdesk, and

Documentation areas do our most event-based educational work.



IBM Missing Values 19 Now Available as an Add-On for PASW Statistics 19

By the Numbers

Kinetic activity between May 1, 2010 and May 1, 2011:*

- · Kinetic HelpCenter website visits: 82.819
- · Remedy tickets submitted through the Kinetic system: 9,219 (29% of all Remedy tickets submitted during that time)
- · Customers logged into Kinetic to check the status of their request 2.588 times.
- · Customers logged into Kinetic and submitted an update to an existing request 326 times.
- *Kinetic is a web-based interface to the Remedy system



By Patrick McLoud, ACUS Host Systems Administrator

Academic Computing and User Services is pleased to announce the availability of the IBM Missing Values 19 Add-On for PASW Statistics 19. The Missing Values Add-On assists users of PASW $\,$

Statistics 19 with analyzing and resolving missing values in their data.





Click on the link above for an information age laugh.





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The following will NOT change:

• Building Number: #111

• The address: 307 S. Avenue B

As was noted in the Link of the Month in this issue, the name of the Science and Technology Library has already changed. It is now called the The Eagle Commons Library.

Facilities will be updating the signs and we will be updating websites and documentation when the time is appropriate. Look for further announcements on this topic in *InHouse* in the near future.





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Summer Hours

By Claudia Lynch, Benchmarks OnlinEditor

 ${f T}$ he spring semester has ended and SUM, 3WK1, 8WK1 classes begin on Monday, May 16. Following are the hours for Computing and Information Technology Center-managed facilities during this time period and on through the summer. The Helpdesk plans, at this point, to be open their normal hours, including on May 30 and July 4. They will be closed, however, to walk-ins on those days. The University is officially closed for Memorial Day, May 30 and Independence Day, July 4.

- Data Management Services will be closed when the University is closed and will otherwise maintain their normal hours over the summer.
- The ACS General Access/Adaptive Lab (ISB 104) will keep the following hours this summer:

Saturday: 10 a.m.-9 p.m. Sunday: 1 p.m.-10 p.m.

Monday - Thursday: 9 a.m.-10 p.m.

Friday: 9 a.m.-9 p.m.

Hours for Other Campus Facilities

Check out the UNT Shuttle Summer Schedule here: http://www.unt.edu/transit/routes_sched.html

General Access Labs

• WILLIS (normal schedule is 24hr/7 days a week) EXCEPT:



May 16-May 27

Monday-Thursday: Open 7:30 a.m.- 8 p.m.

Friday: **Open** 7:30 a.m.-6 p.m. Saturday: Open 9 a.m.-6 p.m. Sunday: Open 1-9 p.m.

May 28-30 (University Closed May 30): Closed

May 31-June 2

Tuesday-Thursday: Open 7:30 a.m.-8 p.m.

June 3-5

Friday: **Open** 7:30 a.m.-1 p.m. Saturday: Open 9 a.m.-6 p.m.

Sunday: Open 1 p.m.; resume 24hr schedule.

• College of Information General Access Computer Lab (CI-GACLab) (B205)::

Summer Hours May 16 - August 12:

Monday - Friday: 10 a.m. - 6 p.m.

Saturday: **Closed** Sunday: **Closed**

Closed:

May 30 (Memorial Day): University Closed

July 4: University Closed

Semester Break: August 12 @ 6 p.m. - 24, Re-open August 25

• MUSIC:

3 Week 1 (3W1) May 16 - June 2:

Monday - Friday: 9 a.m. - 5 p.m.

Saturday: Closed Sunday: Closed

Summer Hours: June 6 - August 12:

Monday - Thursday: 8 a.m. - 9 p.m.

Friday: 8 a.m. – 5 p.m. Saturday: 10 a.m.-5 p.m. Sunday: 1 p.m.-8 p.m.

• PACS Computing Center (College of Public Affairs and Community Service, Chilton Hall):

Summer Hours May 16 - August 12:

Monday - Thursday: 8 a.m. - 10 p.m.

Friday: 8 a.m. – 5 p.m. Saturday: 8 a.m. - 8 p.m. Sunday: Noon - 10 p.m.

Closed:

May 30 (Memorial Day): University Closed

July 4: University Closed

Semester Break: August 12 - 24, Re-open August 25

• CVAD (formerly SOVA):

Closed:

May 13 @ 5 p.m.-May 15, May 30, June 2 @ 5 p.m. - June 5, July 8 @ 5 p.m. - July 11

Semester Break: August 12 @ 5 P.M. - August 24, Re-open August 25

3 Week 1 (3W1) May 16 - June 2:

Monday - Thursday: 8 a.m. - 8 p.m.

Friday: 8 a.m. – 5 p.m. Saturday: Noon - 5 p.m. Sunday: Noon - 5 p.m.

10 Week 1 (10W1) - this includes 5 Week 1 (5W1) and 5 Week 2 (5W2) June 6 - August 12:

Monday - Thursday: 8 a.m. - 10 p.m.

Friday: 8 a.m. – 5 p.m. Saturday: Noon - 5 p.m. Sunday: Noon - 8 p.m.

• <u>COE</u>:

Maintain normal hours, Monday through Saturday. Closed on Sundays. Closing: August 12; Reopen August 25 @ 7 a.m., resume normal hours.

• <u>COBA</u>:

All labs will be closed:

May 30 (Memorial Day): University Closed

July 4: University Closed

Business Lab (Downstairs - BA152)

Monday - Thursday: 8 a.m - 11:50 p.m.

Friday: 8 a.m. - 7:50 p.m. Saturday: 8 a.m. - 7:50 p.m. Sunday: Noon - 11:50 p.m.

General Access Lab (Upstairs - BA335)

Monday - Saturday: 8 a.m - 7:50 p.m.

Sunday: Noon - 7:50 p.m.

Curry Hall (Team Lab)

Monday - Thursday: 8 a.m - 11:30 p.m. Friday & Saturday: 8 a.m. - 7:30 p.m. Sunday: Noon - 11:30 p.m.

• <u>CAS</u>:

All labs will close: Friday, May 13 at 5 p.m. **Reopen:** Monday, May 16; resume normal hours

All labs will be closed:

May 30 (Memorial Day): University Closed

June 3 @ 5 .m.-June 5 (Reopen June 6); July 4: University Closed Semester Break: August 12 - 24, Re-open August 25 @ 7 a.m.

GAB 330

3 Week 1 (3W1) May 16 - June 2:

Monday - Thursday: 8 a.m. - 10 p.m.

Friday: 8 a.m. – 5 p.m. Saturday: Noon - 8 p.m. Sunday: Noon - 10 p.m.

10 Week 1 (10W1) - this includes 5 Week 1 (5W1) and 5 Week 2 (5W2) June 6 - August 12:

Monday - Thursday: 8 a.m. - Midnight

Friday: 8 a.m. – 5 p.m. Saturday: Noon - 8 p.m. Sunday: Noon - Midnight

GAB 550

3 Week 1 (3W1) May 16 - June 2:

Monday - Friday: 8 a.m. - 5 p.m.

10 Week 1 (10W1) - this includes 5 Week 1 (5W1) and 5 Week 2 (5W2) June 6 - August 12

Monday - Friday: 8 a.m. - 5 p.m.

Saturday: Closed Sunday: Closed

Terrill 220

3 Week 1 (3W1) May 16 - June 2: Closed

10 Week 1 (10W1) - this includes 5 Week 1 (5W1) and 5 Week 2 (5W2) June 6 - August 12

 $Monday - Thursday: \ 8 \ a.m. - 8 \ p.m.$

Friday: 8 a.m. – 5 p.m. Saturday: **Closed** Sunday: **Closed**

Wooten 120

3 Week 1 (3W1) May 16 - June 2:

Monday - Thursday: 8 a.m. - 8 p.m.

Friday: 8 a.m. – 5 p.m. Saturday: **Closed** Sunday: **Closed**

10 Week 1 (10W1) - this includes 5 Week 1 (5W1) and 5 Week 2 (5W2) June 6 - August 12

Monday - Thursday: 8 a.m. - 10 p.m.

Friday: 8 a.m. – 5 p.m. Saturday: **Closed** Sunday: **Closed**

• UNT Dallas Campus - 155A

3 Week 1 (3W1) **May 16 - June 4**: Monday - Friday: 7 a.m. - 6 p.m.

Saturday: 8 a.m. - 4 p.m.

Sunday: Closed

Beginning June 6, maintain normal hours, Monday through Saturday.

• Engineering General Access Lab (CENGAL, englab@unt.edu, Discovery Park, B129, 891-6733)

3 Week 1 (3W1) **May 16 - June 2**: Monday - Friday: 9 a.m. - 5 p.m.

Saturday: Closed Sunday: Closed

Summer Hours: June 6 - August 12:

Monday - Friday: 9 a.m. - 5 p.m.

Saturday: Closed Sunday: Closed

Closed:

May 30 (Memorial Day): University Closed

July 4: University Closed

Semester Break: August 12 @ 6 p.m. - 24, Re-open August 25

Remember:



Get your alerts fast in case of inclement weather

Visit the Emergency Management website

City of Denton Residents, $\underline{\text{sign up}}$ for the CodeRED Emergency Notification System





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Summer's Almost Here - Time to Hit the Road Again

By Dr. Elizabeth Hinkle-Turner, Assistant Director - Academic Computing and User Services*

 ${f T}$ he waning days of every spring semester finds us here in ACUS preparing to take our act on the road. By this, I mean that it is the season when the ACUS Student Computing, Helpdesk, and Documentation areas do our most event-based educational work. Between Resident Assistant orientations, transfer student and freshman orientations and a variety of dorm-based events, university community members will seek ACUS personnel out and about and distributing and sharing all sorts of useful and vital student computing information. The summer fun usually culminates with our booth at the late August Mean Green Fling where we typically personally talk with over 500 individual students, faculty, and staff - answering any and all questions about computing on campus. Be on the lookout for us!



The Academic Computing and User Services (ACUS) Road Show at University Day 2011

Our educational presentations typically center around the information gathered at the following resources: The Student Tour of Computing Resources, The UNT Helpdesk Website, The UNT General Access Computer Labs Website, and The 'Is Your Computer Secure?' publication from the UNT CITC Security Team. Topics covered can include computer security, using online learning resources, getting software and hardware educational discounts, responsible use of social media and social networks, using EagleConnect - the student digital communication system, free and legal resources for entertainment file sharing, and using my.unt.edu. Presentations can be tailored towards students in the residence halls or surrounding apartment complexes, student orientations, staff orientations and any area where extensive knowledge of UNT student computing resources and opportunities is a must. ACUS personnel are ready and willing to hit the road, come to your area and do some educating!

Our schedule so far

In the meantime, look for us at every student orientation event occurring this summer. We typically have an information table at all of the 'resource fairs' associated with these events and at freshman orientations, half-hourlong information sessions are given. A complete schedule of orientation dates is given below:

- Transfer Student June 3
- Transfer Student June 10
- Freshman Orientation June 15-17
- Freshman Orientation June 19-21
- Freshman Orientation June 26-28
- Transfer Student June 24
- Freshman Orientation June 29-July 1
- Freshman Orientation July 11-13
- Transfer Student July 8
- Transfer Student July 22
- Freshman Orientation July 17-19
- Transfer Student July 29
- Transfer Student August 6
- Freshman Orientation August 17-18
- Transfer Student August 19
- Transfer Student August 24 and
- Other events as they are announced.

More information about these events can be found by going to the Orientation and Transition Programs website.

Would you like a presentation?

If your area would like a presentation about student computing services (or staff and faculty services), please do not hesitate to contact us here at CITC Academic and Computing Services. As you can see from this article, we are adept at taking our educational act on the road. Further information about scheduling such events can be gotten by contacting Claudia Lynch at lynch@unt.edu.

*This article is published yearly, with information updates where necessary.





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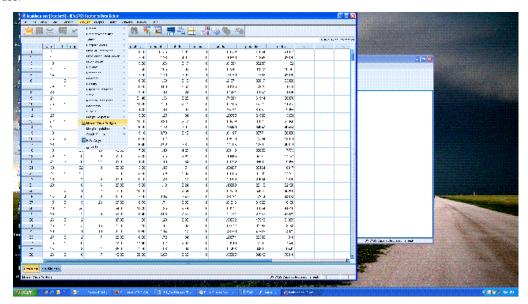
IBM Missing Values 19 Now Available as an Add-On for PASW Statistics 19

By Patrick McLoud, ACUS Host Systems Administrator

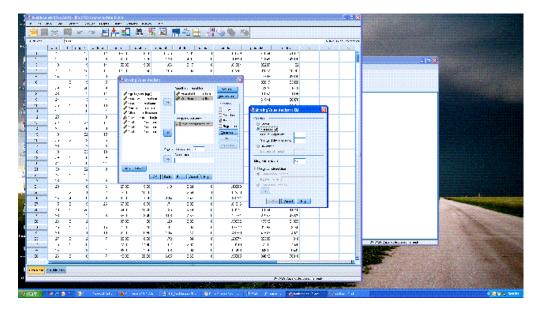
Academic Computing and User Services is pleased to announce the availability of the IBM Missing Values 19 Add-On for PASW Statistics 19. The Missing Values Add-On assists users of PASW Statistics 19 with analyzing and resolving missing values in their data. You can read more about the features available in the IBM SPSS Missing Values 19 Add-On here (http://www.spss.com/software/statistics/missing-values/).

At the current time, IBM SPSS Missing Values 19 Add-On is available with any network installation of PASW Statistics 19. It is specific only to version 19; it will not work with older network installations of SPSS 17 or PASW Statistics 18. It will also not work with single or site license installations of PASW Statistics 19. The Add-On is licensed through a license manager running on a university license server, so in order for a copy of PASW Statistics 19 to have the Missing Values Add-On enabled, it must be licensed from the same license server, as all network installations of PASW Statistics 19 are licensed.

The Add-On is simple to use and requires no additional license authentication. To use the Add-On as illustrated in the image below, click on the Analyze menu and then select the Missing Value Analysis option. Note the graphic to the left side of the Missing Value Analysis option; this lets you know that this particular option is licensed and available



Once you've selected the Missing Value analysis option, subsequent windows will appear on your screen providing you with different options as shown in the image below.



We hope that this research tool will help you deal with missing values issues in your data. Happy computing!





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Network Connection

By Dr. Philip Baczewski, Director of Academic Computing and User Services

Lordy, Lordy, FTP's Forty!

f As if there isn't enough to make me feel old these days, I recently found out that $extstyle{ t ITP}$, the Internet file transfer protocol, turned 40 years old last month. The specification for FTP was first published on April 16, 1971. FTP has long been one of the staple protocols in use on the Internet and was the primary method of exchanging files before the rise of the World Wide Web.

In the early days of the Internet, Mail, Telnet, and FTP were the primary communication tools. FTP was so important, I even wrote a book about it. Actually, it was a book chapter contributed to a volume with the silly title of "Tricks of the Internet Gurus" published in 1994. Having used and written about the Internet since 1987, I guess I was qualified at that time to have the title of Internet Guru and my wisdom included some of the more arcane features of using FTP on various multiuser operating systems.*

In the beginning

In 1994, most Internet communication was between large multiuser computers, with some gateways between the Internet and microcomputer networks, like FidoNet. The World Wide Web was only 3 years old, and the wide scale commercialization of the Internet only started after 1995. FTP was a primary source of software and information before the advent of the Web. An archive of FTP sites, called Archie was the first large-scale Internet search engine, predating Google by almost a decade. (I also wrote a book chapter about Archie in long-ago times.)

The late 1980's through the 1990's saw an explosion in the development of computing technology which seems like a blur looking back on it today. At the same time, you had shareware, networking, Internet, cell phones, and personal computers all combining to quickly change the world in which we live. If you are looking for a current future with flying cars, you will be disappointed. It turns out that the most significant technology development was the communicator. FTP played an important role in shaping the future that was to follow the early 1990's.

In most cases, when connecting from one host computer to another on the Internet, you would have to have an account on the remote computer in order to access and use it. One feature of an FTP server was to allow "anonymous" connections that used the word "anonymous" as the user name and accepted anything as a password, although most sites requested your e-mail address as the password and it was considered a courtesy to provide it. The anonymous feature of FTP allowed it to serve as the first large-scale one-to-many distribution system for online

One of the most important anonymous FTP sites on the early Internet was WUArchive. A project of Washington University in St. Louis, WUArchive was a collection of software and files from many sources on the Internet and was accessed via FTP. It operated from 1988-2010. In it's heyday, it was one of the most popular sites on the Internet and the source for finding resources and software for the microcomputer systems that were available at that time (Apple, Microsoft, Amiga, Atari, etc.)

FTP today

FTP is still an important protocol underlying some kinds of Internet communication. But as a method for personal file transfer, it has fallen into disuse, partly because of concerns about security (the original FTP implementation sends all information in clear text) and partly because of its replacement by all that is Web. You might have to look closely to find an FTP client on your computer these days, although Linux and Mac OS systems have an ftp command as an

intrinsic part of the OS. Even in 1999 I <u>wrote</u>, "Ftp and telnet remain unreplaced in the arena of Internet applications, however, they are not as commonly used now as they were originally. Our favorite World Wide Web browser has replaced our ftp client, and most people don't have the need to establish terminal sessions with remote computers anymore. Most of our current interaction with remote computers is done with our local personal computer acting as a specialized client, and most of our client activity is accomplished through our Web browser."

So, happy 40th to FTP. Maybe the current generation doesn't know you, but their world has been shaped by the large scale exchange of information that you first enabled. Maybe in another 40 years we'll have those flying cars.

*Other authors you may recognize include **Kevin Mullet** and **Billy Barron**.





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Link of the Month

Eagle Commons Library

 ${f T}$ he names, they are ${f a}$ -changin', and that goes for the name of the Science and Technology Library too. It is now called the *The Eagle Commons Library* and it's got some great new features. One new feature is the Collaboration and Learning Commons (CLC) which was designed specifically for group study. The CLC was featured in a Bechmarks Online article when it first opened in February of this year.



The CLC also has two instruction rooms that can seat up to 14 people each and teaching stations that give you access to Microsoft Office and NCast. Hardware is available to allow you to record your presentations. PC workstations are also available.

Visit the Eagle Commons Library website to find out all the wonderful new features of this re-designed campus resource:

http://www.library.unt.edu/eagle-commons





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Helpdesk FYI

By Jonathan "Mac" Edwards, CITC Helpdesk Manager

Configuring EagleConnect Email on your iPhone

 ${f Y}$ ou can easily configure your iPhone to check your EagleConnect Email using Microsoft Exchange Active Sync. The Helpdesk now recommends, when possible, using Exchange ActiveSync instead of IMAP.

- 1. On your iPhone select Settings, then choose Mail, Contacts, Calendars.
- 2. Choose ADD Account.
- 3. On the Add Account screen select Microsoft Exchange.
- 4. Enter your Exchange Account information Email: Your EagleConnect Email address Username: Your EagleConnect Email address Password: Your EagleConnect Password
- 5. Exchange will attempt to detect, and automatically fill in, the rest of your settings. If this fails you will be asked to fill in additional information.

Email: Your EagleConnect Email address. Generally firstlast@my.unt.edu.

Server: Either outlook.com or pod51000.outlook.com.

Username: Your EagleConnect Email address.

Password: Your EagleConnect Email password (should not require changes).

6. Select which parts of your account to Synchronize, then select Sync.











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IRC News

Minutes provided by Christine Valenzuela Recording Secretary*

The IRC -- unofficially now known as the INFORMATION TECHNOLOGY COUNCIL (ITC) -- is currently undergoing a reorganization, see the May 20, 2008 minutes for more information.**>

No IRC/ITC minutes were available for publication this month.

*For a list of IRC Regular and Ex-officio Members click here (last updated 12/12/08). Warren Burggren is now the

**DCSMT Minutes can be found here.





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RSS Matters

Research and Statistical Support **University of North Texas**

Cross Validation techniques in **R**: A brief overview of some methods, packages, and functions for assessing prediction models.

Link to the last RSS article here: Matching across two groups to isolate treatment effects. -- Ed.

By Dr. Jon StarkweatherResearch and Statistical Support Consultant

 ${f T}$ his month's article focuses on an initial review of techniques for conducting cross validation in ${f R}$. Next month, a more in-depth evaluation of cross validation techniques will follow. Cross validation is useful for overcoming the problem of over-fitting. Over-fitting is one aspect of the larger issue of what statisticians refer to as shrinkage (Harrell, Lee, & Mark, 1996). Over-fitting is a term which refers to when the model requires more information than the data can provide. For example, over-fitting can occur when a model which was initially fit with the same data as was used to assess fit. Much like exploratory and confirmatory analysis should not be done on the same sample of data, fitting a model and then assessing how well that model performs on the same data should be avoided. When we speak of assessing how well a model performs, we generally think of fit measures (e.g. R2, adj. R2, AIC, BIC, RMSEA, etc.); but, what we really would like to know is how well a particular model predicts based on new information. This really gets at the goals of science and how we go about them; observation yields description, experimentation yields explanation, and all of those utilize statistical models with the goal of explanation and/or prediction. When predictions are confirmed, evidence is born for supporting a theory. When predictions fail, evidence is born for rejecting a theory.

Fit measures, whether in the standard regression setting or in more complex settings, are biased by over-fitting generally indicating better fit, or less prediction error than is really the case. Prediction error refers to the discrepancy or difference between a predicted value (based on a model) and the actual value. In the standard regression situation, prediction error refers to how well our regression equation predicts the outcome variable scores of new cases based on applying the model (coefficients) to the new cases' predictor variable scores. When dealing with a single sample, typically the residuals are a reflection of this prediction error; where the residuals are specifically how discrepant the predicted values (y-hat or ŷ) are from the actual values of the outcome (y). However, because of over-fitting, these errors or residuals will be biased downward (less prediction error) due to the actual outcome variable values being used to create the regression equation (i.e. the prediction model). Cross validation techniques are one way to address this over-fitting bias.

Cross validation is a model evaluation method that is better than simply looking at the residuals. Residual evaluation does not indicate how well a model can make new predictions on cases it has not already seen. Cross validation techniques tend to focus on not using the entire data set when building a model. Some cases are removed before the data is modeled; these removed cases are often called the testing set. Once the model has been built using the cases left (often called the training set), the cases which were removed (testing set) can be used to test the performance of the model on the "unseen" data (i.e. the testing set).

The examples below are meant to show how some common cross validation techniques can be implemented in the statistical programming language environment R. The examples below focus on standard multiple regression

situations using a sample drawn from a simulated population of *true scores*. Next month's article will show how the population was generated and how each sample was drawn, as well as a more in-depth exploration of how cross validation techniques address the over-fitting problem.

Example Data

The examples below were designed to be representative of a typical modeling strategy, where the researcher has theorized a model based on a literature review (and other sources of information) and has collected a sample of data. The setting for the examples below concerns a model with seven hypothesized predictors (x1, x2, x3, x4, x5, x6, & x7), each interval/ratio scaled, and one interval/ratio outcome variable (y). All variables have an approximate mean of 10. The sample contains two additional columns, one which identifies cases sequentially in the sample (s.id) and one which identifies cases sequentially in the population from which it was drawn (p.id). The sample contains 100 cases randomly sampled from a defined population of 1,000,000 individuals.

First, read in the sample data from the web, naming it 'sample1.df' (df = data.frame), and getting the ubiquitous 'head' and 'summary' to get an idea of what the data looks like.

```
R Console
 File Edit Misc Packages Windows Help
 > sample1.df <- read.table("http://www.unt.edu/rss/class/Jon/R_SC/Module9/CrossValidation/cv_sample1.df.txt",
+ header=TRUE, sep=",", na.strings="NA", dec=".", strip.white=TRUE)

        head(sample).dl)
        x1
        x2
        x3
        x4
        x5
        x6
        x7

        1 297497 10.239325
        9.468152 10.704792 10.542263
        9.014519 10.102986 10.29590
        9.861752
        2 218250 10.467680 11.457565
        8.870517
        9.903951 10.312773
        9.714411 11.32481 11.280861
        3 808994 11.606858
        9.995756 11.690831 11.312733
        9.394473
        8.883531 10.00956
        9.582854

        4 352628
        9.565044 10.092380
        8.950241
        8.487879
        9.634021
        8.146134
        9.99382
        9.561203

        5 371676
        9.904931
        9.370441 10.906479
        11.628177
        11.768006
        10.669805
        10.84285
        11.275871

        6 342721
        9.647289
        9.130054
        10.284733
        10.106447
        8.736938
        9.837188
        10.29698
        10.506574

    sid p.id y

Min.: 1.00 Min.: 33985 Min.: 7.770

1st qu:: 25.75 1st qu::299989 1st qu:: 9.411

Median: 50.50 Median: 465996 Median: 10.038

Mean: 50.50 Mean: 510596 Mean: 10.092

3rd qu:: 75.25 3rd qu:: 710626 3rd qu:: 10.839
                                                                                                                                                                                          x1
Min. : 7.651
1st Qu.: 9.456
                                                                                                                                                                                                                                                      Min. : 6.607
1st Qu.: 9.175
                                                                                                                                                                                                                                                      Median : 10.050
Mean : 9.978
3rd Qu.:10.707
                                                                                                                                                                                         Median :10.092
Mean :10.159
                                                                                                                                                                                                                                                                                                                 Median :10.069
Mean :10.027
                                                                                                                                                                                          3rd Qu.:10.743
                                                                                                                                                                                                                                                                                                                   3rd Qu.: 10.655
    Max. :100.00
x4
Min. : 7.817
1st Qu.: 9.664
                            :100.00 Max. :979113
x4 x5
: 7.817 Min. : 7.665
.: 9.664 1st Qu.: 9.339
                                                                                                                         Max. :12.019
x6
Min. : 6.982
1st Qu.: 9.539
                                                                                                                                                                                        Max. :12.589
x7
Min. : 6.900
1st Qu.: 9.506
                                                                                                                                                                                                                                                     Max.
                                                                                                                                                                                                                                                                               :12.690
                                                                                                                                                                                                                                                                                                               Max.
                                                           Median :10.032
Mean :10.015
3rd Qu.:10.634
                                                                                                                           Median :10.031
Mean :10.083
3rd Qu.:10.628
    Median :10.287
Mean :10.176
                                                                                                                                                                                         Median :10.127
Mean :10.117
                                                               Max.
                                                                                       :12.392
                                                                                                                           Max.
```

The 'Design' Package

Next, we specify the model. Typically, we would use the 'lm' function from the base 'stats' package to specify an Ordinary Least Squares (OLS) regression model. However, here we will use the 'ols' function in the 'Design' package (Harrell, 2009). So, first we must load the 'Design' package, which has several dependencies.

Now, we can use the 'ols' function to specify the model and get a summary of it. Make sure to set the optional arguments 'x = TRUE' and 'y = TRUE' as these will save a design matrix of predictors and a vector of outcome values. These two objects will be used in the cross validation techniques below. If you are not familiar with the scientific notation of \mathbf{R} , the 'e-00' refers to a negative exponent and the 'e+00' refers to a positive exponent. For example, 5.234e-03 = 0.005234 and 5.234e+03 = 5234.00.

```
R Console
File Edit Misc Packages Windows Help
> model.1 <- ols(y \sim x1 + x2 + x3 + x4 + x5 + x6 + x7, sample1.df, x = TRUE, y = TRUE)
Linear Regression Model
ols(formula = y \sim x1 + x2 + x3 + x4 + x5 + x6 + x7, data = samplel.df, x = TRUE, y = TRUE)
                                       d.f. No. 7 0.9942
Residuals:
Min 1Q Median 3Q Max
-0.154608 -0.056157 0.004808 0.045365 0.186316
Coefficients:
                   Value Std. Error t Pr(>|t|)
77898 0.169566 -16.389 0.000e+00
86274 0.008341 103.429 0.000e+00
Intercept -2.77898
                0.86274
                             0.007593 72.050 0.000e+00
0.008475 27.803 0.000e+00
0.009121 -18.013 0.000e+00
0.009475 -14.874 0.000e+00
x2
               0.54708
                0.23564
              -0.14094
                0.01887
                            0.017262 1.093 2.771e-01
0.018421 -4.407 2.836e-05
Residual standard error: 0.07509 on 92 degrees of freedom
Adjusted R-Squared: 0.9938
```

Next, we can begin exploring cross validation techniques. The 'validate' function in the 'Design' package "does resampling validation of a regression model, with or without backward step-down variable deletion" (Harrell, 2009, p. 187). Here, our examples focus on OLS regression, but the 'validate' function can hand a logistic model as well; as long as the model is fit with the 'Irm' function (Logistic Regression Model) in the 'Design' package. The key part of the output for this function is the 'index.corrected' measures of fit -- which corrects for over-fitting. We start with the default values/arguments for 'validate' which uses the 'boot' method (bootstrapped validation; Efron, 1983; Efron & Tibshirani, 1993). Bootstrapped validation takes B number of samples of the original data, with replacement, and fits the model to this training set. Then, the original data is used as the testing set for validation.

Notice in the output above the index corrected estimates are all marginally worse in terms of fit and / or prediction error. In other words, the index corrected measures do not reflect the shrinkage caused by over-fitting. The "optimism" (Efron & Tibshirani, 1993, p. 248) is the difference between the training set estimates and the test set estimates and can be thought of as the amount of optimism of each initial estimate (e.g. how much the training estimates are biased).

Next, we can explore the 'crossvalidation' method, which uses B number of observations as the testing set (testing or validating the model) and the rest of the sample for the training set (building the model).

Next, we can take a look at the ".632" bootstrapped method which corrects for the bias in prediction error estimates "based on the fact that bootstrap samples are supported on approximately .632n of the original data points" (Efron, 1983; Efron & Tibshirani, 1997, p. 552).

```
| Reference | Refe
```

The 'DAAG' package

Another package which is capable of performing cross validation is the Data Analysis And Graphing ('DAAG') package

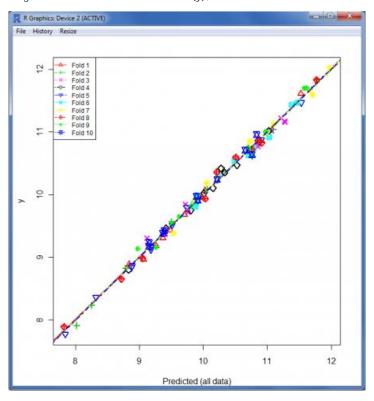
(Maindonald & Braun, 2011) which also has several dependent packages.

The 'DAAG' package contains three functions for k – fold cross validation; the 'cv.lm' function is used for simple linear regression models, the 'CVlm' function is used for multiple linear regression models, and the 'CVbinary' function is used for logistic regression models. The k – fold method randomly removes k – folds for the testing set and models the remaining (training set) data. Here we use the commonly accepted (Harrell, 1998) 10 – fold application.

Some output (folds) has been omitted.

Here, at the bottom of the output we get the cross validation residual sums of squares (Overall MS); which is a corrected measure of prediction error averaged across all folds. The function also produces a plot (below) of each

fold's predicted values against the actual outcome variable (y); with each fold a different color.



The 'boot' package

Lastly, we can use the 'boot' package (Ripley, 2010) for cross validation of generalized linear models (e.g. binomial, Gaussian, poisson, gamma, etc.). Bootstrapping can be used to correct for some of the bias associated with the other cross validation techniques.

```
## RConsole

## Edit Misc Packages Windows Help

> library(boot)

Attaching package: 'boot'

The following object(s) are masked from 'package:survival':

aml

> [
```

First, we must fit the model. Our example below is *really* an OLS regression model, but if we specify 'family = gaussian' then it is the same as using 'lm'. If we had a logistic model, then we would specify 'family = binomial(link = logit)' to fit the logistic model.

```
File Edit Misc Packages Windows Help
> model.2 <- glm(y \sim x1 + x2 + x4 + x5 + x6 + x7, sample1.df, family = gaussian) > summary(model.2)
\label{eq:glm} \begin{aligned} \text{glm} & (\text{formula} = \text{y} \sim \text{x1} + \text{x2} + \text{x4} + \text{x5} + \text{x6} + \text{x7}, \text{ family} = \text{gaussian}, \\ & \text{data} = \text{sample1.df}) \end{aligned}
Deviance Residuals:
Min 1Q Median 3Q Max
-0.5173 -0.1635 0.0071 0.1343 0.4584
Coefficients:
                     Estimate Std. Error t value Pr(>|t|)
-0.6058 0.4589 -1.32 0.19006
0.8186 0.0250 32.78 < 2e-16
0.5777 0.0229 25.21 < 2e-16
                                                                     0.19006
< 2e-16 ***
< 2e-16 ***
x2
                                           0.0278
x5
x6
x7
                                          0.0520
                                                          -5.28
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 (Dispersion parameter for gaussian family taken to be 0.0524)
Null deviance: 89.6896 on 99 degrees of freedom
Residual deviance: 4.8774 on 93 degrees of freedom
AIC: -2.269
 Number of Fisher Scoring iterations: 2
```

The 'cv.glm' function "estimates the k – fold cross validation prediction error for generalized linear models" (Ripley, 2010). If k – fold is set to the number of cases (rows), then a complete Leave One Out Cross Validation (LOOCV) is

done. The LOOCV method is intuitively named; essentially, one case is *left out* as the testing set and the rest of the data is used as the training set. If this process is repeated so that each case is given a chance as the testing case, then we have the complete LOOCV method. The 'cv.glm' function returns a 'delta' which shows (first) the raw cross-validation estimate of prediction error and (second) the adjusted cross-validation estimate. The adjustment is designed to compensate for the bias introduced by not using leave-one-out cross-validation. The default for 'cv.glm' is complete LOOCV.

First, we run the common 10 – fold cross validation. Below, the majority of seed information is cut off the end of the figure.

```
R Console
 File Edit Misc Packages Windows Help
 > val.10.fold <- cv.glm(data = sample1.df, glmfit = model.2, K = 10)
  val.10.fold
 cv.glm(data = sample1.df, glmfit = mode1.2, K = 10)
 [1] 10
 $delta
 0.0572 0.0567
 Sseed
                              100
                                   1118745441
                                                 1531885299
                                                                   2763106 2140198868 1789174487
                                                                                                         -845059891
       -1092788124
                      -695153078
                                    -320332875
376543001
                                                 1768072975
762448811
                                                               1625781270
-707143270
                                                                             388718272
1098218844
                                                                                           642795651
1309676639
                                                                                                        1378608289
       -1069787188 -1394539742
                                     237698429
                                                                814237794
           25004776
                      -705146090 -1756965743
                                                 2102593859 -1873443758 -1694296348 -1047834329 -1442872963
                      2118199898
                                                 -1075465025
                                    966616741
```

Next, we run the complete LOOCV method, specifying k as the number of rows in the sample data (nrow). Again, below the majority of the seed numbers have been left off the figure.

```
R Console
File Edit Misc Packages Windows Help
> val.loocv <- cv.glm(data = samplel.df, glmfit = model.2, K = nrow(samplel.df))
cv.glm(data = sample1.df, glmfit = mode1.2, K = nrow(sample1.df))
[1] 100
$delta
0.0567 0.0567
                                     1118745441
                                                    1531885299
                                                                       2763106 2140198868 1789174487
                                                                                                               -845059891
                                      -320332875
376543001
237698429
                                                    1768072975
762448811
1290899063
       -1092788124
                      -695153078
                                                                   1625781270
                                                                                                               1378608289
       -456324464
-1069787188
                     -949634706
-1394539742
                                                                                 1098218844
-266332584
           25004776
                       -705146090
                                    -1756965743
                                                    2102593859 -1873443758 -1694296348
                                                                                               -1047834329
                                                                                                              -1442872963
        -70734426B
                       2118199898
                                       966616741
                                                   -1075465025
                                                                    229050182
                                                                                   559293904 -1608157197
                                                                                                              -1169305839
                                     1531439081
-1691345715
                       1457453906
                                                    2114509959
                                                                  -1991874706
-890494
                                                                                 -1192748728
1259183540
```

Obviously the delta numbers match because we used the LOOCV method. Recall, the first delta value is the raw cross validation estimate of prediction error and the second is the adjusted cross validation estimate; which is supposed to adjust for the bias of not using the LOOCV method.

Conclusions

Three packages were employed to demonstrate some relatively simple examples of conducting cross validation in the $\bf R$ programming language environment. Cross validation refers to a group of methods for addressing the some overfitting problems. Over-fitting refers to a situation when the model requires more information than the data can provide. One way to induce over-fitting is by specifying the model with the same data on which one assesses fit or prediction error. The examples here were conducted using simulated data. Rather strikingly, you may have noticed, the estimates of prediction error were not terribly different from the full sample (over-fitted) estimates, even though this sample was considerable small (n = 100) in comparison to its parent population (N = 1,000,000). These results might lead one to think cross validation and over-fitting are not things one needs to be concerned with. However, there are a few reasons our estimates here were not more starkly different than the full sample estimates and you might be surprised to find that some of our predictor variables are not at all related to the outcome variable. Next month's article will reveal the *secrets* behind those statements. However, cross validation and over-fitting are serious concerns when dealing with real data and should be considered in each study involving modeling.

References & Resources

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Tune in next time, Same bat channel, same bat time...





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Short Courses

Instructor-led courses are still on hold. Please contact an RSS member or Claudia Lynch if you are interested in taking such a class or wish to have someone offer a class for your students. SPSS and SAS courses; they are now offered online only. RSS staff will be still be available for consultation on those topics, however. Another class available online is Introduction to R.

Surf over to the Short Courses page to see instructions for accessing the SPSS and SAS online learning and other training that is available to you. You can also see the sorts of instructor led courses that have been offered in the

Special classes can always be arranged with the RSS staff. See "Customized Short Courses" below for further information. Also, you can always contact the RSS staff for one-on-one consultation. Please read the FAQ before requesting an appointment though.

Especially for Faculty and Staff Members

In addition to the ACS Short Courses, which are available to students, faculty and staff, staff and faculty members can take courses offered through the Human Resources Department (they have a new comprehensive training curriculum), and the Center for Learning Enhancement, Assessment, and Redesign. Additionally, the Center for Achievement and Lifelong Learning offers a variety of courses, usually for a small fee.

EIS training is available. Questions or comments relating to EIS training should be sent to EISTCA@unt.edu.

Microsoft E-Learning

Microsoft E-Learning courses are now available for faculty and staff via our UNT-Microsoft Campus Agreement. Please contact Claudia Lynch at lynch@unt.edu for instructions on accessing this training. If you haven't accessed the training since last year you will need to get a new access code.

Microsoft Outlook Tutorials and much more

The Enterprise Messaging and Directory Services Group has all sorts of useful information on their website, including tutorials and FAQs. The home page displays a list of their newest tutorials with tutorial topic pages displaying the most accessed pages. You can search the site for whatever you're interested via a Search Box on the left-hand side of the page.

Central Web Support

Consult Central Web Support for assistance in acquiring "Internet services and support." As described on their website:

CWS provides Internet services and support to UNT faculty, staff and students. Services include allocating and assisting departments, campus organizations and faculty with web space and associated applications. Additionally, CWS assists web developers with databases and associated web applications, troubleshooting problems, support and

CLEAR (was Center for Distributed Learning)

CLEAR offers courses especially for Faculty Members. A list of topics and further information can be found here.

The center also offers a "Brown Bag" series which meets for lunch one **Wednesday** a month (recently changed from the first Thursday of each month) at Noon in Chilton 245. The purpose of this group is to bring faculty members together to share their experiences with distributed learning. One demonstration will be made at each meeting by a faculty member with experience in distributed learning. More information on these activities can be found at the CLEAR Website.

Ed2go

Ed2go are courses that are offered, for a fee, to UNT faculty, staff and students as well as the general public. According to the CALL <u>website</u>:

CALL has partnered up to provide online learning on a variety of topics. From standardized test preparation to database programming to training for libraries and their staff, there's a variety of areas from which to choose in online learning.

The online minicourses, provided in conjunction with Ed2go, are standardized 12-lesson modules released over a six week period. (Courses are active for eight weeks to provide some flexibility). Each module features a quiz. Lessons are instructor-led and course participants and instructor communicate through a course discussion board. Lessons can be downloaded and saved. At the end of the course there is a final quiz. A passing grade opens a window that allows students to print out a course completion certificate.

All courses are \$89, and UNT faculty, staff and students may receive a \$10 discount.

For additional information surf over to http://www.ed2go.com/unt/

Information Security Awareness

The UNT Information Security team offers Information Security Awareness <u>courses</u> to all UNT faculty and staff. Topics to be covered will include workstation security, sensitive data handling, copyright infringement issues, identity theft, email security, and more.

It is a policy requirement that ALL staff take an information security course at least once a year.

Please contact <u>Allan Anderson</u> in CITC Information Security if you have any questions, or would like more information about the online training. **Either attending a live class or going through the online training will count towards your training requirement.** You can also request a customized course to be taught for your department.

Alternate Forms of Training

Many of the General Access Labs around campus have tutorials installed on their computers.

See http://www.gal.unt.edu/ for a list of labs and their locations. The Willis Library, for example, has a list of Tutorials and Software Support. The Library Instructional Unit also offers workshops and training, including "tech skills" training. Visit their websites for more information: http://www.library.unt.edu/library-instruction

The <u>Training Website</u> has all sorts of information about alternate forms of training. Computer Based Training (CBT) and Web-based training are some of the alternatives offered, although due to the rising costs of training, shrinking budgets and changing technology, computer-based training at UNT is in a state of transition. For up-to-date information on CBT at UNT, see the CBT <u>website</u>.

Gartner Research Services

Way back in 2006 we announced <u>Gartner Core Research Services Now Available to the UNT Community</u>. Our subscription for Gartner services has always included <u>all</u> UNT faculty, students, and staff. All you need to do to access the subscription is to **log into the UNT Gartner portal page** at https://gartner.unt.edu/. Once you have logged in, you can view upcoming webinars: https://www.gartner.com/it/products/podcasting/asset 137461 2616.jsp.

State of Texas Department of Information Resources

Another possible source of training for staff and, perhaps, faculty members is the Texas Department of Information Resources. A look at their Education and Training <u>website</u> reveals some interesting possibilities.

New Horizons Computer Learning Centers

New Horizins is a DIR vendor, which means that state agencies, like UNT, get special pricing for their services negotiated at the State level (click here for more information about DIR vendors). New Horizons offers courses at their own facilities in Dallas and Fort Worth, but will arrange for onsite training as well.





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Transitions

New Employees:

- Brenton Micheal Copeland, Business Services Support/Student Development (AIS).
- Kathy Cooley, IT Specialist, UNT Administration Support, Departmental IT Support.

No longer working in the Computing and Information Technology Center:

- Susan Pierce, Manager, Developer, UNTranet-SharePoint. Retired!
- Georgia Baldwin, Administrative Specialist, Telecom Services.

Changes, Awards, Recognition, Publications, etc.

Service to UNT

Congratulations to Ginger Boone, IT Manager, Business Services Support/Student Development, Departmental IT Support (AIS) on her 20 years of service to UNT. Congratulations also to these folks who are celebrating:

15 years of Service

- Saeid Parivash, IT Programmer Analyst, EIS Tools Support, AIS Tools & User Services.
- Monty Slayton, IT Manager, Storage & Backups, Enterprise Systems Technical Services (AIS)

10 years of service

- Thomas (T.J.) Adamowicz, IT Specialist, Enterprise Messaging and Directory Services Group, Communications & Collaboration Services.
- Danja Franklin, IT Programmer Analyst, EIS Application Infrastructure Management, AIS Tools & User Services.
- David George, IT Technician, EIS Application Infrastructure Management, AIS Tools & User Services.
- Silvester Montalvo, Communications Specialist, Infrastructure Engineering & Installation, Communications & Collaboration Services.

They were all recently recognized in InHouse.

Congratulations to the Graduates

We have a couple of distinguished Helpdesk employees who have just graduated:

- Andrew Neiford: Graduated with a BA in Communication Studies with a Marketing minor. Was recently
 accepted into Texas Wesleyan School of Law for Fall 2011.
- Trayton Oakes: Graduated with a BA in Political Science and Economics (double major), Magna Cum Laude, Honors College Recognition Award.

We're proud of you too!

These folks deserve a round of applause also:

- David Heflin, Helpdesk Consultant -- David has recently received honors for some of his Advertising and Design work: Fort Worth ADDYs: 1 Silver, 2 Golds (advanced to District 10 ADDYs), and a Best of Show Award. District 10 ADDYs: 2 Golds, both advanced to National ADDYs. National ADDYs: 1 award to be announced June 4th. DSVC national Student Show: "Best Pro-bono Ad Campaign." Print Magazine 2011 Hand Drawn Competition: Finalist, Some work may appear in the June issue.
- Monty Slayton, IT Manager, Storage & Backups, Enterprise Systems Technical Services (AIS) was reelected Mayor of The City of Lake Bridgeport for another term. He has also been selected for the Board of
 Wise County Committee on Aging/Meals on Wheels. Slayton has also, in the past year, been selected to
 participate in the Compellent Customer Council (C3). This is a group of select Compellent accounts that
 meet to give the user's viewpoint on current and future company directions.
- Allan Anderson, Information Security Analyst, was one of the keynote speakers at a
 recent seminar, "Security in Emerging Technologies," offered by the Center for Decision and Information
 Technologies here at UNT. It was a part of their 2010-2011 Seminar Series on Information Security and
 Privacy.





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