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Staying Secure During Holiday

This is a "mashup" of two articles* that we've published in the past. The original authors are Gabe Marshall and Cathy

Gonzalez. Both are no longer employed by UNT or the UNT System. The information in the articles has been updated when appropriate. -- Ed.

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By Dr. Elizabeth Hinkle-Turner, Director - Academic Computing Technical Services

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EDUCAUSE Opportunities

EDUCAUSE

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By the Numbers

Down the Corridor of Years

2008

Online publications from 2008 note:

- UNT selects ImageNow for electronic document storage.
- · Center for Distributed Learning (CDL) and the Center for Teaching, Learning and Assessment (CTLA) merged into a single faculty support unit named the Center for Learning Enhancement, Assessment, and Redesign (CLEAR).
- · Four general use Computer classrooms managed by ACUS are created at Discovery
- The CITC begins deployment of virtual services for campus online services.
- Migration to Microsoft Exchange is completed and GroupWise is shut down



Winter Break Hours



By Claudia Lynch, Benchmarks Online Editor

The fall semester is over, winter is upon us; time to rest, relax, catch up on things that were put aside, and generally take a break from what had become your routine these past few months. The following information should help you plan your

activities if you need/want to access campus computing facilities over the break.





Click on the link above for an information age laugh.





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The holiday season is here. Again. That means that you as a UNT faculty or staff member should be extra careful while you are away and needing to take your technology with you. When traveling with a personal or UNT owned laptop, there are several key tips you will need to keep in mind.

Traveling with a UNT owned laptop

If you plan on traveling over the holidays, there are a few things you will need to remember, especially if you are bringing a UNT owned laptop with you. ALWAYS make sure the laptop is kept with you everywhere you go. A laptop can be stolen within seconds of neglect, and in the past the majority of these thefts occur over the holiday break. Common locations of theft have been homes, in cars, hotel lobbies, airports, etc.

If you plan on flying over the holidays with a laptop, keep an eye on your laptop when you put it down to be scanned at a security checkpoint or while you're waiting to board your plane. Thieves in airports tend to work in groups and can easily distract you while another walks away with your laptop. To increase your safety further at an airport, consider storing your laptop in a regular travel bag instead of one designed for a laptop. This will give the appearance that you in fact are not traveling with one.

The loss of the laptop may be the least of your worries. Think of your data or the information on your laptop that may belong to UNT. Make sure you have it backed up and that the backup is stored somewhere away from the laptop and, if possible, encrypt your hard drive or any sensitive data it may contain.

Virtual theft

Maybe you are in an airport or simply stopped by Starbucks when you remember you have a few tasks to complete before the end of the day. You know your location has public internet access so you pop open your laptop and log in to my.unt.edu (or myHSC, myDallas, or myLaw). More and more there are free Wi-Fi (internet) access points that are unsecured and public. Just because more wireless routes have a firewall to protect you from the internet does not mean you are protected from others connected to the same network. Many wireless hotspots these days are completely unencrypted, usually so they are easier to connect to (baristas don't have time to be giving out the internet password to everyone that walks in their coffee shop). The problem, however, is this model leaves you unprotected against malicious users in the same coffee shop. Let's look at a couple of settings you should be sure to tweak when you are connected to a public network.

- 1. Turn off sharing at home you may have your laptop, netbook, etc. set to share files, printers, or other resources. When you are on a public network, you want to turn these things off, as anyone can access them (particularly files). The nice person sitting next to you with the Cinnamon Soy Latte does not have to be a hacker! It is very easy to access your computer contents as there is little password sharing.
- 2. Turn off network discovery this prevents others from seeing your machine on the network, meaning you are less likely to be targeted.



- Enable your firewall it is highly likely your OS is already using a basic
 firewall. To check if it is, go into your security settings (in Windows under
 Control Panel -> System and Security -> Windows Firewall; on Mac under System Preferences -> Security > Firewall). If a firewall is not on, turn it on while on a public wi-fi.
- 4. Turn it Off When You're Not Using It maybe you are only working on files locally rather than logging into to a UNT resource. If you want to guarantee your security, simply turn off your Wi-Fi. It is extremely easy in both Mac and Windows. On a Mac, just click the icon in the menu bar and select the turn off AirPort option. On Windows, you can just right-click on the wireless icon in the taskbar to turn it off. The longer you stay connected, the longer people have to notice you are there and start snooping around.

Home for the holidays

If you plan on bringing a laptop home to use over the holidays, make sure it is kept out of sight whenever not in use. Thieves will typically only steal what they can see from windows or immediately see when they enter your house. If you plan on bringing it in your car, remember that locking your car is not a sufficient safeguard for your laptop, especially if it is left sitting in a seat. If for some reason you need to leave your laptop in you car, you should store it locked away in your trunk.

Many laptops now come with their own anti-theft devices such as motion detection alarms, GPS tracking, security cables, etc. If the laptop you are using comes with one of these features, make sure that you are taking advantage of it. If you feel you need additional physical security for your laptop, contact your Network Manager to see if additional features or items can be purchased.

New laptops may also come with anti-theft devices such as bio-metric scanners, motion detection alarms, security cables, tracking software, etc. If your laptop is equipped with one of these, make sure it is in use. If your laptop does not come with any theft deterrents, you might want to consider purchasing one if approved by your Network Manager.

If a theft occurs ...

Lastly, if a theft does occur, please <u>report it immediately</u> -- to the police, ITSS Information Security as well as your Network Manager. Immediately reporting incidents is required according to policy, and will reduce the likelihood of data loss.

* The first part of http://www.unt.edu/benchmarks/archives/2008/december08/staysecure.htm and the entirety of https://it.unt.edu/benchmarks/issues/2010/12/how-stay-safe-public-wi-fi-networks.

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Stay on Santa's Good Side This Year: Computing Tips to Keep You on His "Nice" List

By Dr. Elizabeth Hinkle-Turner, Director - Academic Computing Technical Services

Now and then at winter break, "Computing Santa" (alias "IT Santa") gets inspired and shares with all UNT students, faculty, and staff some tips to keep them on his "nice computer user" list for the year. Now, by following these gentle suggestions below, we cannot guarantee you that the Jolly Old Elf will bring you an iPad, but it sure can't hurt for you to try! The last time Santa became so inspired was with this 2010 article (my, how time flies!). This year's article contains some updates and additions to the suggestions given in that still-quite-relevant 2010 version.!

Santa's tips for computer security: Santa and his elves remind you that there are simple steps you can follow to protect your desktop, laptop and mobile computing devices. Fortunately, UNT provides much security assistance for you. First of all, make sure you have a secure password for all your UNT-related activities (and any other online activities as well). The password update site at ams.unt.edu assists you with this by forcing strong password rules when creating and updating your login credentials. No more using that beloved kitty's name of "Fluffy"! However, "F-I_u33yC4t" might work just fine and still pays homage to your favorite furry friend. Additionally, please ensure that you have appropriate firewall rules set on your computing devices and sensitive information



should always be encrypted. It goes without saying that virus protection software installed and updated daily is a must. Santa's security elves still provide all UNT students, faculty, and staff with FREE McAfee virus protection which you will find at http://itss.untsystem.edu/security/information-security. This UNT System site also gives up-to-theminute news about security breaches and dangers that could affect users. Furthermore, it should go without saying that ANYONE who clicks on a URL in an email from an unidentified and verified source is getting a big old lump of coal in his stocking to go along with all the wonderful malware that will be brought down the chimney of his computer after such a fateful click. Finally, Mrs. Santa chimes in to remind you to be responsible on social media sites like Facebook. Always put your best foot forward to the literally millions of folks who can access your information.

Rudolph's raves about digital communications: If UNT students, faculty, and staff have not checked out the awesome perks associated with their EagleConnect (students) and Outlook 365 (faculty and staff) email accounts, then...well....shame on you! Rudolph sentences you to eat a fruit cake for your transgressions! First of all, everyone is reminded that the only way effective communication can exist is if folks are actually using it! Students need to be reading and communicating with their EagleConnect email accounts and faculty and staff need to be doing likewise with their Outlook accounts. And...you get rewarded with many holiday (and beyond!) gifts from Computing Santa for your efforts! Students enjoy a large cloud-based storage system (OneDrive - 25 GB); free Office Webapps; and now FREE OFFICE for Windows, Mac OSX, iOS and Android devices. This is the full Office suite which can be downloaded and installed on up to 5 separate devices. In the very near future, faculty and staff will also receive more Microsoft goodies in their stockings (their own OneDrive and full Office and Office mobile apps) just like the students once Phase II of the 365 migration is complete. Faculty and staff can read more about their digital communications resources and plans in this article from the July 2014 issue of Benchmarks. Faculty and staff are also reminded that they have terrific web-based meetings and training sessions available through the Citrix GoToMeeting and GoToTraining products. Read more about it in this announcement from CLEAR.

Keeping it merry in the Student Computer Labs: Our Student Computer Labs continue to be a popular resource on campus and Santa does not find many folks doing naughty things like wasting printer paper or hogging machines with your Facebook viewing while long lines of students wait in vain to type their papers during finals week (these things actually used to be a big issue in 2010!). Santa just wants to remind students that they are given a generous printing allowance but if they have any questions, they should read this complete briefing of the new student printing credit system written by one of Santa's Computing Elves in October. Santa is very pleased that printing wastage is dramatically lower this year and for that he wishes all of you a very Happy Holiday! And what a great gift for our trees! Students are reminded that the many computer kiosks located in busy areas on campus are also available for their use between classes.

Giving and Getting Computing Help and Service: You have heard it said that it is more fun to give than to receive! Santa wishes to give a big shout out of gratitude to our hard-working computing personnel for all that they do. He also wants to remind personnel that a great customer service attitude is the best gift of all. Prompt and responsive service to UNT community needs will give everyone a warm glow during this cold winter season. Santa encourages everyone to take full advantage of the many computing service "gifts" on offer at UNT. Check out helpdesk.unt.edu for up-to-the-minute information about computing news, services, and issues at UNT. Students (and everyone else!) should regularly use the Student Tour of Information Technology Services at UNT (which will include informative podcasts about computing services for undergraduate and graduate students beginning in January 2015) for comprehensive instructions about UNT computing services for academic success. Faculty and staff are strongly encouraged NOT to "suffer in silence" if you have an unanswered computing need - communicate regularly with your area's IT network manager about questions and issues (and compliments too, of course!). All of Santa's UNT faculty family can find out who to contact for IT services by bookmarking this informative service directory page for easy reference in case of an emergency.

Being aware of and utilizing the helpful hints and service advice given here is just one of the many ways (you know, besides drinking egg nog, watching college bowl games, and warming your feet by the fire) you can be sure to have a happy technology holiday thanks to Computing Santa and his IT Elves. One final note: Santa's direct line for all things tech during the holidays (and beyond) is **940-565-2324** - it's your lifeline to the technology North Pole! And Computing Santa says, "Merry Computing to all, and to all a good break!"

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January 28-30, 2015 San Diego, California

EDUCAUSE Connect: San Diego takes the concept of professional development events to a personal level through active dialogue and collaborative efforts to solve, network, and grow. Early-Bird Deadline: December

31 for discounted rates on registration and housing.

ALSO: April 22-24, 2015 \$an Antonio, TX



February 9-11, 2015 Anaheim. California, and **Online**

Designing our Thinking: Crafting New Directions for Digital Engagement is the theme of the EDUCAUSE Learning Initiative Annual Meeting 2015 in Anaheim, California, and online. ELI's annual meeting is the premier event for those committed to the advancement of learning through the innovative application of technology.

Early-Bird Discount Deadlines: Anaheim:

January 12 Virtual Meeting: February 3

View the <u>face-to-face</u> or <u>online agenda</u> for complete details.





Memories of the 2014 Annual Conference in Orlando, Florida linger, but it is time to think about next year's Annual Conference. Read all about it here! **Proposal Deadline**: January 14, 2015

And there are always EDE CAUSE Live! Webinars

EDUCAUSE Live! is a series of **free**, hour-long interactive webinars on critical information technology topics in higher education. You can <u>register</u> for upcoming webinars and you can find recordings of **all past webinars** in the <u>EDUCAUSE Live!archives</u>.

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Network Connection

By Dr. Philip Baczewski, Senior Director of Academic Computing and User Services and Deputy Chief Information Officer for University Information Technology

Like a Broken Record



Here's an audio technology/american idiom history lesson. Back when the the primary medium for recorded sound was limited to the vinyl discs that are the subject of current nostalgia, record players featured needle or stylus that sensed and transmitted the variations within the long spiral groove in the vinyl that was an analog representation of the recorded sound. A scratch or crack in the vinyl (or materials that predated vinyl) often caused the stylus to skip toward the outside of the record (centrifugal force at work) and repeat the previously heard music over and over as the defect was continually encountered. From the phenomenon, we get the saying, "like a broken record", meaning heard over and over again.

The global stakeholder community?

This saying came to mind when I came upon a report about the funding bill recently passed by the U.S. Congress: "Congress is looking to stall Obama administration plans to cede authority over the Internet root zone file used to manage addresses by shifting oversight of the Internet Assigned Numbers Authority to a global, non-governmental entity." Sure enough, in the bill as plain as day is the following language: "SEC. 540. (a) None of the funds made available by this Act may be used to relinquish the responsibility of the National Telecommunications and Information Administration during fiscal year 2015 with respect to Internet domain name system functions, including responsibility with respect to the authoritative root zone file and the Internet Assigned Numbers Authority functions. 19 (b) Subsection (a) of this section shall expire on September 30, 2015."

The report went on to say, "The U.S. contract with the Internet Corporation for Assigned Names and Numbers expires at the close of fiscal 2015, but NTIA head Larry Strickling has said that the contract can be extended if a transition plan is not in place." This sounded awfully familiar. Rewind to March of 2012, and this column reported, "for the first time in over 12 years, the U.S. Government essentially rejected renewal of ICANN's IANA management Instead, the National Telecommunications and Information Administration (NTIA), a part of the Department of Commerce (DOC), has extended ICANN's contract for six months and has stated their intent to reissue the IANA RFP at a future date to be determined (TBD.)" TBD has turned into March of 2014, when the NTIA announced an effort to transition IANA's functions to "the global stakeholder community", i.e. out of the direct control of the U.S. Government.

IANA functions

In case you've forgotten the IANA functions, according to the NTIA, are "(1) The coordination of the assignment of technical Internet protocol parameters; (2) the administration of certain responsibilities associated with Internet DNS root zone management; (3) the allocation of Internet numbering resources; and (4) other services related to the management of the .ARPA and .INT top-level domains." In other words, IANA serves as the steward of numeric Internet addresses, and the "traffic cop" that directs your browser or other Internet software to an authoritative directory of those addresses. This provides the assurance that when you are typing www.unt.edu in your browser,

that you'll actually be connected to the University of North Texas web site and not some bogus (in the literal sense) web location.



not likely that a transition away from U.S. Government control will happen very quickly.

Further down the road

The current contract between the NTIA and ICANN (Internet Corporation for Assigned Names and Numbers) for Management of IANA was to have expired on September 30, 2014 but has been extended to September 30, 2015. So, perhaps the U.S. Congress has just exercised their skill in <u>kicking the can down the road</u>. See, the U.S. Government is full of idioms (or something like that.)

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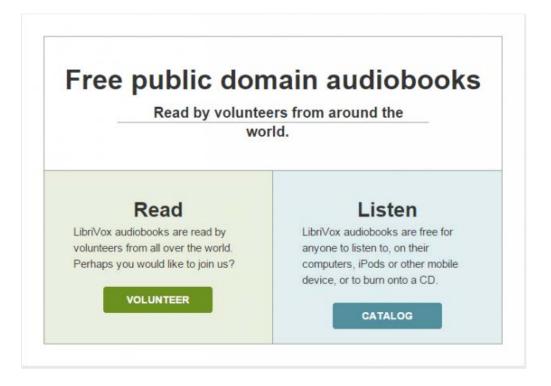
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LibriVox, free public domain audiobooks

f Just in time for Winter Break! "LibriVox audiobooks are free for anyone to listen to, on their computers, iPods or other mobile device, or to burn onto a CD." LibriVox audiobooks are read by volunteers from all over the world and you can volunteer to be a reader too.



https://librivox.org

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Helpdesk FYI

By Jacob Flores, UIT Support Services Manager

Preparing Outlook for the Holidays

With Christmas around the corner many of us will be forced to step away from the desk, take a few days off, and possibly relax. During this time you may even be tempted to step away from your work email for days at a time. Unfortunately, just because you stop checking your email, doesn't mean it will stop arriving.

Fortunately, Outlook has "Automatic Replies (Out of Office)" that can be set up to automatically respond to folks that send you email.

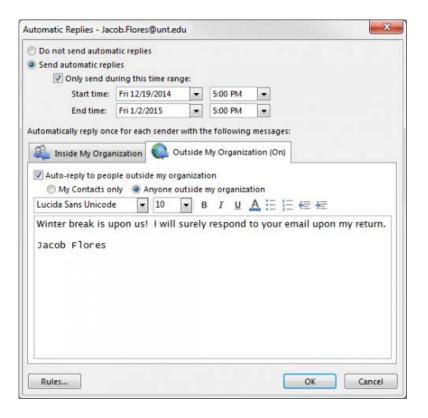
- Go to File and select the Automatic Replies (Out of Office) button.
- Select "Send out of Office auto-replies," and "Only send during this time range."
- Next, set the date ranges for when you will be out of the office. (If you are planning on an extended vacation, or fear you may get snowed in on your Ski trip, you can uncheck the time range option and turn off the auto-reply when you are back in the office.)

Next you can set up your auto-reply for groups both inside and outside of UNT:

- Inside My Organization will include mail from all UNT email addresses, both employee accounts and student EagleConnect accounts.
- Outside My Organization will include all other email addresses.

This way you can set your Inside auto-reply to something representing your hardworking nature: "Due to the University being closed for the Holidays I am unfortunately away from the office. I would much rather be there to answer your email." Your Outside auto-reply on the other-hand could reflect your relief to be away from the office for a week: "Due to the University being closed for the Holidays I am finally free from them for a week! I am so glad I don't have to answer these emails!"

*Disclaimer your boss may email you from an Outside account.



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RSS Matters

R stats

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

Identifying or Verifying the Number of Factors to Extract u Very Simple Structure.

Link to the last RSS article here: Statistical Resources (update; version 3). -- Ed.

By Dr. Jon Starkweather, Research and Statistical Support Consultant Team

Factor analysis is perhaps one of the most frequently used analyses. It is versatile and flexible; meaning, it can be applied to a variety of data situations and types, and it can be applied in a variety of ways. However, conducting factor analysis generally requires the data analyst to make several decisions. Analysts often run several factor analyses, even when attempting to confirm an established factor structure; in order to assess the fit of the data to several factor models (e.g. one factor model, two factor model, three factor model, etc.). Over the 100 years since Spearman (1904) developed factor analysis there have been many, many criteria proposed for determining the number of factors to extract (e.g. eigenvalues greater than one, Horn's [1965] parallel analysis, Cattell's [1966] scree plot or test, Velicer's [1976] Minimum Average Partial [MAP] criterion, etc.). Each of these proposed criteria have strengths and weaknesses; and they occasionally conflict with one another, which makes using one criterion over another a risky proposition. This month's article demonstrates a very handy method for comparing multiple criteria in the pursuit of choosing to extract the appropriate number of factors during factor analysis.

In popular culture it is not uncommon to hear someone say, "There's an app for that." The phrase generally refers to the idea that an application exists (for a smart phone) which does the task being discussed. Likewise, here at RSS we very frequently find "There's a pack for that." This phrase refers to the virtual certainty of finding an R package which has a function devoted to some analysis or technique we are discussing. The primary package we will be using here is one package which contains a great many useful functions and as a result is very often the package we end up using for a variety of analyses. The primary package we will be using here is the 'psych' package (Revelle, 2014). The 'psych' package has grown substantially over the last few years and includes many very useful functions - if you have not taken a look at it recently, you might want to check it out.

Our examples below will actually require two packages, the 'psych' package and the 'GPArotation' package (Bernaards & Jennrich, 2014). The 'GPArotation' package should be familiar to anyone with experience doing factor analysis - it provides functions for several rotation strategies. The primary function we demonstrate below is the 'vss' function from the 'psych' package. The Very Simple Structure (VSS; Revell & Rocklin, 1979) function provides a nice output of criteria for varying levels of factor model complexity (i.e. number of factors to extract). The Very Simple Structure (VSS) terminology is used to refer to the idea that all loadings which are less than the maximum loading (of an item to a factor) are suppressed to zero - thus forcing a particular factor model to be much more interpretable or more clearly distinguished. Then, fit of several models of increasing rank complexity (i.e. more and more factors specified) can be assessed using the residual matrix of each model (i.e. original matrix minus the reproduced matrix of the models). We will also be using both the 'fa' function (from the 'psych' package) and the 'factanal' function (from the 'stats' package - included with all installations of R) to fit factor analysis models to the data structures.

Examples

The first two examples used here can easily be duplicated using the scripts provided below (i.e. the data file is available at the URL in the script / screen capture image). The third example is the example contained in the help file of the 'vss' function and can be accessed using the script below. First, load the two packages we will be using.

```
R RConsole (64-bit)

File Edit Misc Packages Windows Help

R version 3.1.2 (2014-10-31) -- "Pumpkin Helmet"
Copyright (C) 2014 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

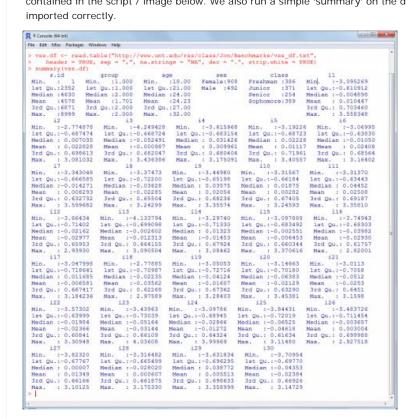
Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> library(gpactation)
> |
```

Next, we will import the comma delimited text (.txt) file from the RSS server using the URL and file name (vss_df.txt) contained in the script / image below. We also run a simple 'summary' on the data frame to make sure it was imported correctly.



The simulated data includes a sample identification number for each participant (s.id), a grouping variable (group 1 or group 2), age of each participant (age in years), sex of each participant (female or male), class standing of each participant (freshman, sophomore, junior, or senior), and 30 item scores. Next, we will identify which participants belong to group 1 and which belong to group 2; as well as the number of participants in each group.

```
R RConsole (64-bit)

File Edit Misc Packages Windows Help

> g1 <- which (vss.df[,2] == 1); length(g1)

[1] 418

> g2 <- which (vss.df[,2] == 2); length(g2)

[1] 982

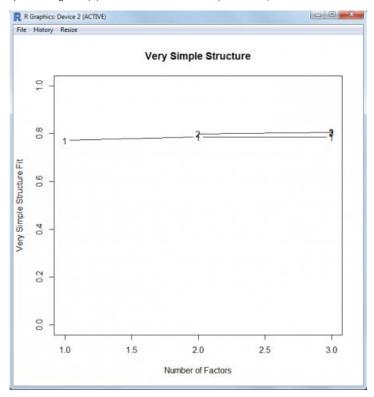
> |
```

So, we have 418 participants in group 1 and 982 participants in group 2. Generally when analysts intend to do factor analysis they have an idea of how many factors they believe the appropriate factor model contains; and often they have an idea of whether an orthogonal or oblique rotation strategy is warranted. For this first example (i.e. group 1) looking at the 30 item scores (i.e. columns 6 through 35), we believe there are two factors and therefore; we specify 3 factors (n = 3) in the 'vss' function. We also believe the factors are likely to be meaningfully related and

consequently, we specify an oblimin rotation strategy. Next, we apply the 'vss' function to group 1. Also note, we specified Maximum Likelihood Estimation as the Factor Method (fm = "mle") because this is the method used by default with the 'factanal' (i.e. factor analysis) function of the 'stats' package. We specified the number of observations (i.e. number of rows, cases, or participants) using the length of the group 1 vector (g1). Recall from above, the group 1 vector contains the row numbers of all the participants from group 1.

```
R Console (64-bit)
File Edit Misc Packages Windows Help
 Very Simple Structure
 Call: vss(x = vss.df[g1, 6:35], n = 3, rotate = "oblimin", fm = "mle",
    n.obs = length(g1))
 VSS complexity 1 achieves a maximimum of 0.79 with 2 factors
VSS complexity 2 achieves a maximimum of 0.8 with 3 factors
 The Velicer MAP achieves a minimum of 0 with
BIC achieves a minimum of -1900.78 with 2
                                                           factors
 Sample Size adjusted BIC achieves a minimum of
 Statistics by number of factors
 vss1 vss2
1 0.77 0.0
          vss2 map dof chisq prob
0.0 0.0503 405 2434 7.3e-286
                                           prob sqresid fit RMSEA
e-286 32 0.77 0.1115
                                                                            BIC SABIC complex eChisq SRMR eCRMS
-10 1275 1.0 7303 0.142 0.147
                                                                               -10 1275
                                                        28 0.80 0.0048 -1901 -708
   0.79 0.8 0.0049 376
          0.8 0.0049 376 369 6.0e-01
0.8 0.0064 348 328 7.7e-01
                                                                                                         224 0.025 0.027
    eBIC
 2 -2046
   -1914
```

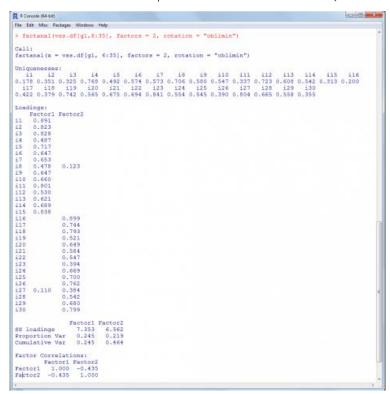
The first few rows of output (i.e. "Very Simple Structure" table) show the function called and the *maximum* complexity values. This is a good example because the VSS complexity rows are conflicting; VSS complexity 1 shows a 2-factor model is best while VSS complexity 2 indicates a 3-factor model is best. The VSS complexity 2 is a bit misleading because both the 2-factor model and 3-factor model display a VSS complexity 2 of 0.80; as can be seen in the first column of output under the "Statistics by number of factors" table. So, in fact both complexity 1 and complexity 2 are in agreement. Furthermore, the Velicer MAP *minimum* is reached with the 2-factor model; which can also be seen in the third column of the "Statistics by number of factors" table. The Bayesian Information Criterion (BIC) *minimum* is reached with the 2-factor model; as well as the Sample Size adjusted BIC (SABIC) – shown in columns 10 and 11 respectively of the "Statistics by number of factors" table. The 'vss' function also produces a plot (by default) which shows the number of factors on the x-axis and the VSS (complexity) Fit along the y-axis with lines and numbers in the Cartesian plane representing the (3) different factor models (see below).



To interpret the graph, focus on the model (1, 2, or 3 factor models) which has the highest line (and numerals) in relation to the y-axis; but also note any transitions of the model lines. In this example, the transitions are all very nearly flat but a later example will better demonstrate the utility of this type of plot.

Next, we can verify the fit of our 2-factor model using either the 'fa' function (from the 'psych' package) and / or the 'factanal' function (of the 'stats' package).

*Note: the last few lines of output from the 'fa' function are cut off (i.e. not shown).

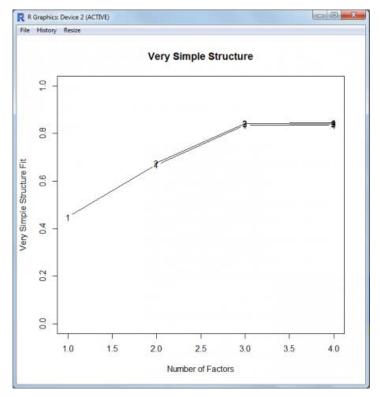


*Note: last few lines of output from the 'factanal' function are cut off (i.e. not shown).

We will now assess the group 2 (g2) data. This group is believed to be best served with a 3-factor model; so we specify 4 factors (n = 4) in the 'vss' function call; again with the factor method set to Maximum Likelihood Estimation (fm = "mle") and an oblique rotation strategy (rotate = "oblimin").

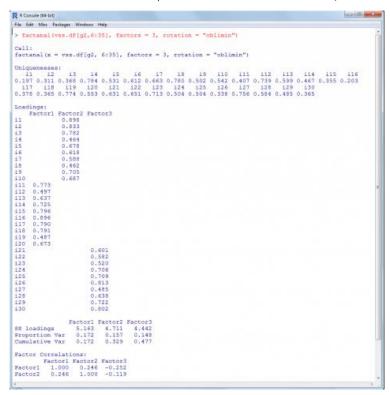
```
- P - X
R Console (64-bit)
File Edit Misc Packages Windows Help
> vss(x = vss.df[g2,6:35], n = 4, rotate = "oblimin", + fm = "mle", n.obs = length(g2))
 Very Simple Structure
Call: vss(x = vss.df[g2, 6:35], n = 4, rotate = "oblimin", fm = "mle", n.obs = length(g2))
 VSS complexity 1 achieves a maximimum of 0.84 with 3
VSS complexity 2 achieves a maximimum of 0.84 with 3
                                                                                        factors
The Velicer MAP achieves a minimum of 0 with 3 factors BIC achieves a minimum of -2059.87 with 3 factors
 Sample Size adjusted BIC achieves a minimum of -954.62 with 3 factors
 Statistics by number of factors
vssl vss2 map dof chisq prob sqresid fit RMSEA
1 0.45 0.00 0.0587 405 8098 0.00 54 0.45 0.140
2 0.67 0.68 0.0365 376 3757 0.00 32 0.68 0.096
                                                                                      BIC SABIC complex eChisq SRMR eCRMS eBIC
5308 6594 1 32395 0.195 0.202 29604
1167 2361 1 13427 0.125 0.135 10837
                                                                                   5308
1167
    0.84 0.84 0.0065 321
                                       301 0.79
                                                              15 0.85 0.000 -1911
                                                                                              -891
                                                                                                                       174 0.014 0.017 -2038
```

In this example all of the indices in the top table ("Very Simple Structure") are in agreement; although both VSS complexity metrics display the same *maximum* for a 3-factor model and a 4-factor model. Looking at the first two columns of the "Statistics by number of factors" table shows the identical complexity *maximums* (0.84) for both the 3-factor model (row 3) and the 4-factor model (row 4) with both complexities 1 and 2 (columns 1 and 2). But, given the other indices agreement in support of the 3-factor model, that would be the model most appropriate. The plot (below) reinforces the interpretation of the tabular output above.



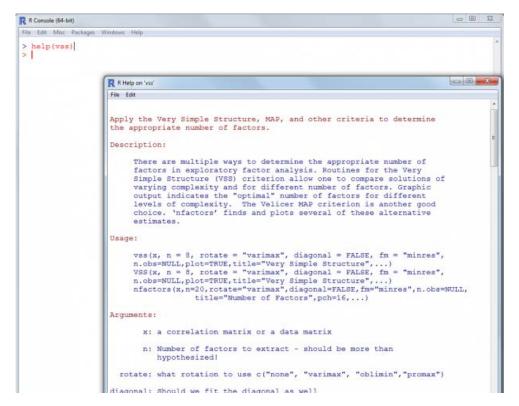
The plot (above) shows that the 3-factor model is meaningfully better than the 1-factor or 2-factor models and the 4-factor model does not show any improvement over the 3-factor model – which is evident because the number 4 in the plot is not [further] above the line associated with the 3-factor model (i.e. no gain or transition upward; as is the case from 1-factor to 2-factors and to 3-factors). Therefore, we fit the 3-factor model to our data using the 'fa' function (of the 'psych' package) and / or the 'factanal' function of the 'stats' package.

*Note: the last few lines of output from the 'fa' function are cut off (i.e. not shown).



*Note: last few lines of output from the 'factanal' function are cut off (i.e. not shown).

The next example is straight from the help file of the 'vss' function and is discussed here because it demonstrates a situation when the tables of output from the 'vss' function are not in agreement. When this situation occurs, one must rely upon the plot produced by the 'vss' function rather than the textual output. First, open the help file (here the plain text version is shown).



Next, scroll to the bottom of the help file and copy / paste the relevant lines of script into the R console.

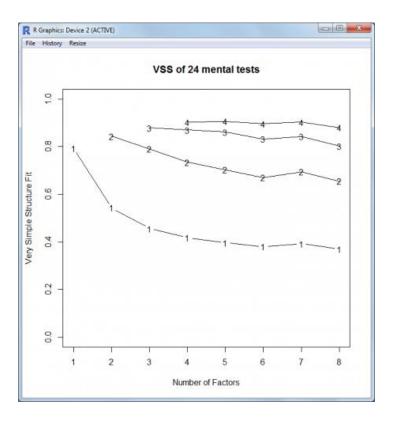
```
- E X
R Console (64-bit)
File Edit Misc Packages Windows Help
 > test.data <- Harman74.cor$cov
  > VSS(test.data,title="VSS of 24 mental tests")
 n.obs was not specified and was arbitrarily set to 1000. This only affects the chi square values.
 Very Simple Structure of VSS of 24 mental tests
Very sample structure of vas of 24 mental tests

(all: vss(x = x, n = n, rotate = rotate, diagonal = diagonal, fm = fm, n.obs = n.obs, plot = plot, title = title)

VSS complexity 1 achieves a maximimum of 0.79 with 1 factors

VSS complexity 2 achieves a maximimum of 0.84 with 2 factors
 The Velicer MAP achieves a minimum of 0.02 with 4 factors
BIC achieves a minimum of 69.72 with 8 factors
Sample Size adjusted BIC achieves a minimum of 425.44 with 8 factors
 Statistics by number of factors
                                                       prob sqresid fit RMSEA BIC SABIC complex eChisq SRMR eCRMS eBIC 0e+00 17.1 0.79 0.132 2842 3642 1.0 5310 0.098 0.103 3569 0e+00 12.9 0.84 0.113 1523 2251 1.5 3001 0.074 0.081 1419
 vss1 vss2 map dof chisq prob
1 0.79 0.00 0.025 252 4583 0.0e+00
2 0.54 0.84 0.022 229 3105 0.0e+00
3 0.46 0.79 0.017 207 2195 0.0e+00
                                                                                                                                      1689 0.055 0.064
                                                                      10.0 0.88 0.099
                                                                                                           1422
                                                                                                                                                                    259
 4 0.42 0.73 0.017 186 1689 2.3e-240
5 0.40 0.70 0.021 166 1398 9.3e-194
                                                                     8.0 0.90 0.091
7.3 0.91 0.087
                                                                                                   405
                                                                                                             995
779
                                                                                                                                       936 0.041 0.050 -349
743 0.037 0.047 -403
                                                                                                   252
 6 0.38 0.67 0.024 147 1221 1.2e-168 7 0.39 0.69 0.028 129 1004 2.6e-135
                                                                      6.6 0.92 0.086
5.7 0.93 0.083
                                                                                                                                       604 0.033 0.045 -411
450 0.029 0.042 -441
                                                                                                   206
                                                                                                              673
                                                                                                                           2.1
                                                                                                   112
                                                                     5.4 0.93 0.082
 8 0.37 0.65 0.030 112
                                         843 1.6e-112
                                                                                                     70
                                                                                                                                       369 0.026 0.041 -405
```

As mentioned previously, the tables of statistics do not provide a clear answer to the question of which factor model is best (i.e. how many factors should be extracted). However, if we review the associated plot, we can clearly see the 4-factor model is the best (i.e. highest; even when embedded within models with more than 4 factors, with good separation from previous models).



Conclusions

The intent of this article was to raise awareness of the dangers of using only one criteria or method for deciding upon the number of factors to extract when conducting factor analysis. This article also demonstrated the ease with which an analyst can compute and evaluate several such criteria to reach a more informed decision. More extensive examples of the data analysis solutions are available at the RSS <u>Do-it-yourself Introduction to R</u> course page. Lastly, a copy of the script file used for the above examples is available <u>here</u>.

Until next time; remember what George Carlin said: "just 'cause you got the monkey off your back doesn't mean the circus left town."

References / Resources

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Contact Us:

University Information Technology

1155 Union Circle #310709 Denton, TX 76203 USA Voice: 940-565-4068 Fax: 940-565-4060

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Columns, December 2014

Network Connection

Link of the Month

Helpdesk FYI

RSS Matters

Training

Staff Activities

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Training

By Claudia Lynch, Benchmarks Online Editor

Do you need training on widely used computer programs including those used in statistical analysis? If so, this monthly Benchmarks Online column is for you.

Statistical Analysis

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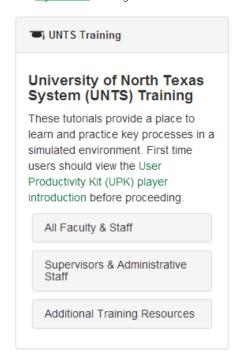
Special classes can always be arranged with the RSS staff. Also, you can always contact the RSS staff for one-onone consultation. Please read the FAQ before requesting an appointment though.

Especially for Faculty and Staff Members

In addition to the online statistical courses, which are available to students, faculty, and staff, staff and faculty members can take courses offered through the Business Service Center, and the Center for Learning Enhancement, Assessment, and Redesign (CLEAR). Additionally, the Center for Achievement and Lifelong Learning (CALL) offers a variety of courses, usually for a small fee.

System Training Resources UNT

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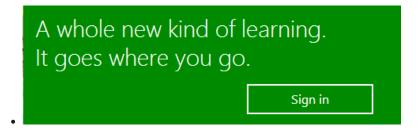
- Anybody interested in growing their career can be a part of MVA.
- To sign up for MVA, on the MVA home page, MVA courses and events are free, but you need to identify yourself using a Microsoft account in order to sign up for MVA and create your MVA profile.
- There is no minimum level of technical expertise required.

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Follow the instructions below to access E-learning until you arrive on the "UNT System authenticated service Page."

- Go to: https://onlinelearning.microsoft.com
- Click Sign In:



• Then choose:



Organizational account

Sign in with the account provided by your work or school to use with Office 365 or other Microsoft services.

You will be taken to the following sign in page:

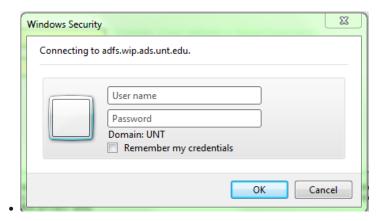
Sign in with your organizational account

someone@example.com

- Fill in your UNT email address on the sign in page and press the "Sign In" tab.
- You will be taken to the UNT System authenticated service Page:

Username:	firstname.lastname@my.unt.edu	- Examp	ole: Email address or domain\usernan
Password:			
		Sign In	

To login using Integrated Authentication, click on that link and type UNT\EUID where EUID is your EUID. This should take
you to the UNT courses that are available. If you are using Internet Explorer the following box will appear and you should enter
your EUID where it says "Username."



- Once signed in, you should be able to access the courses that are available to the UNT community.
- You can access courses available to the general public by choosing the Microsoft Account option:



Microsoft account

Sign in with the account you use for OneDrive, Xbox Live, Outlook.com or other Microsoft Services.

• If you do not currently have a Microsoft account (previously called a "Live ID") you can create one at Microsoft's <u>Live Sign-up site</u>.

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- Turning Point
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- Respondus

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Further information can be found here.

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The University of North Texas is a premium member of the Online Learning Consortium (formerly the Sloan Consortium) College Pass. To request FREE ENROLLMENT in an Online Learning Consortium workshop, please contact Amber Bryant with the name and date of the workshop selected.

• Online Consortium 2015 Workshops

Please click on the link above to see the available 2015 workshops.

CLEAR also provides <u>free access</u> through group subscriptions for ALL Denton UNT faculty and staff to **The Teaching Professor** and **Online Classroom**.

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.

Most courses are \$89, and UNT faculty, staff and students may receive a \$10 discount. Visit the online courses page at http://www.ed2go.com/unt/ or contact Tami Russell at 940.565.3353 for more information.

For additional information, visit the **Ed2go blog** <u>here</u>. You can subscribe to their newsletter also from a link at the bottom of the page.

Information Security Awareness

Information Security Awareness -- The ITSS Information Security team offers Information Security Awareness training to all UNT faculty and staff.

- It is a policy requirement that ALL staff take an information security course at least once a year.
- See the <u>Virus Information Page</u> and the <u>Information Security Handbook -- for Faculty, Staff and Students</u> for further information.

UNT HR Training and Development

As noted on their website:

Monthly emails are sent to all employees with a list of current classes, many available by webcast. (Note: Few, if any classes are offered during the winter break, spring break holiday periods for all UNT System campuses.)

Learn more about classes

here: https://untranet.unt.edu/untsystem/UNT%20System%20HR/talent_management/SitePages/Home.aspx

If you have questions or specific needs, contact <u>talentmanagement@untsystem.edu</u> or call 855-878-7650 to be directed to a Talent Management staff member.

Alternate Forms of Training

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

See http://computerlabs.unt.edu/ for a list of labs and their locations. The 24 Center in 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.

Info~Tech, UNT's IT Research Partner

Info~Tech is UNT's IT research partner. UNT System, UNT, UNT Health Science Center and UNT Dallas employees have access to Info~Tech research at: www.infotech.unt.edu (click on the UNT System name to login). Your standard EUID and Password gains you access to the Info~Tech system. Please take a moment to read their terms and conditions by clicking through the agreement when you set up your profile the first time you log in.

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 website reveals some interesting possibilities.

New Horizons Computer Learning Centers

New Horizons 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. They have a "Tips and Tricks" page that has helpful information. This month's Tips and Tricks are tited "May Your Days Be Tech-y and Bright." You can also join their mailing list to receive their monthly newsletter, event invitations and specials.

EDUCAUSE Live! Webinars

EDUCAUSE Live! is a series of **free**, hour-long interactive webinars on critical information technology topics in higher education. You can <u>register</u> for upcoming webinars and you can find recordings of **all past** webinars in the <u>EDUCAUSE Live!archives</u>.

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University Information Technology

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Staff Activities

Staff activities for UIT are reported in this column.

Transitions

New Employees:

- Daniel Faubion, Classroom Support Services (part-time).
- Ricky Adams, Classroom Support Services (part-time).



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Winter Break Hours

By Claudia Lynch, Benchmarks Online Editor

 ${f T}$ he fall semester is over, winter is upon us; time to rest, relax, catch up on things that were put aside, and generally take a break from what had become your routine these past few months. The following information should help you plan your activities if you need/want to access campus computing facilities over the break.

Following are the hours for University Information Technology-managed facilities during the winter break. The University is officially closed Wednesday, December 24, 2014 through Friday, January 2, 2015. The University is also closed Monday, January 19 (MLK Holiday). The Spring Semester begins on Tuesday, January 20.

- The Helpdesk hours are as follows:
 - Sunday 12/14: 12 p.m. 8 p.m., closed to walk-ins on weekend
 - Monday 12/15 Friday 12/19: 8 a.m. 8 p.m.
 - Saturday 12/20: 9 a.m. 5 p.m., closed to walk-ins on weekend
 - Sunday 12/21: 12 pm 8 pm, closed to walk-ins on weekend
 - Monday 12/22 Tuesday 12/23: 8 a.m. 8 p.m.
 - Wednesday 12/24 Thursday 12/25: Closed
 - Friday 12/26 Tuesday 12/30: 12 p.m. 5 p.m., closed to walk-ins (email & phone support only)
 - Wednesday 12/31 Thursday 1/1: Closed
 - Friday 1/2: 8 a.m. 8 p.m., closed to walk-ins (email & phone support only)
 - Saturday 1/3: 9 a.m. 5 p.m., closed to walk-ins on weekend
 - Sunday 1/4: 12 p.m. 8 p.m., closed to walk-ins on weekend
 - Monday 1/5 Friday 1/9: 8 a.m. 8 p.m.
 - Saturday 1/10: Return to normal operational hours & availability...
 - Monday 1/19 (MLK holiday): 8 a.m. midnight, closed to walk-ins (email & phone support only)
- Data Management Services will be closed Saturday, December 13, 2014 through Sunday, January 4, 2015. They will resume regular hours Monday, January 5. They will be closed Monday, January 19 (MLK Holiday).
- The ACUS General Access/Adaptive Lab (SYMR 104) will be closed Wednesday, December 24, 2014 through Sunday, January 11, 2015. They will resume regular hours Monday, January 12. They will be closed Monday, January 19 (MLK Holiday).



Hours for Other Campus Facilities

Student Computer Labs

	Closed: December 24, 2014 - January 4, 2015.
24 Center (formerly known as WILLIS) OPEN 24 HOURS Check hours here:	Open at 7 a.m. January 5, 2015 - Winter Intersession (Monday - Friday: 7 a.m 7 p.m. Saturday - Sunday: Closed)
http://www.library.unt.edu/location-hours/willis-library	Closed: January 19, 2015.
iloui 5/ Willis-libi al y	Open at 7 a.m. January 20, 2015, resume 24 hour schedule.
llege of Information General Access Computer Lab	Close at 6 p.m. on Wednesday, Friday, December 12, 2014.
(COI-SCLab) (B205)	Open for regular hours at 7:30 a.m. Tuesday, January 20, 2015.
Music	Close at 5 p.m. on Wednesday, Friday, December 12, 2014.
MUSIC:	Open for regular hours at 8 a.m. Tuesday, January 20, 2015.
Chilton IT (College of Public Affairs and Community	Close at 5 p.m. on Wednesday, Friday, December 12, 2014.
Service)	Open for regular hours at 8 a.m. Tuesday, January 20, 2015.
AD	Close at 5 p.m. on Wednesday, Friday, December 12, 2014.
CVAD	Open for regular hours at 7:30 a.m. Tuesday, January 20, 2015.
COE	Close at 5 p.m. on Wednesday, Friday, December 12, 2014.
	Open for regular hours at 8 a.m. Tuesday, January 20, 2015.
<u>COB</u> (BLB 190)	Close at 4 p.m. on Wednesday, Friday, December 12, 2014.
	Open for regular hours at 8 a.m. Tuesday, January 20, 2015.
	GAB 330: Close at 5 p.m. on Wednesday, Friday, December 12, 2014.
	Open for regular hours at 8 a.m. Tuesday, January

CAS - All CAS labs **closed** at 5 p.m. on Friday, December 12, 2014 and will remain closed until 8 a.m. Tuesday, January 20, 2015. 20, 2015.

GAB 550: Close at 5 p.m. on Wednesday, Friday, December 12, 2014.

Open for regular hours at 8 a.m. Tuesday, January 20, 2015.

Terrill 220: Close at 5 p.m. on Wednesday, Friday, December 12, 2014.

Open for regular hours at 8 a.m. Tuesday, January 20, 2015.

Wooten 120: Close at 5 p.m. on Wednesday, Friday, December 12, 2014.

Open for regular hours at 8 a.m. Tuesday, January 20, 2015.

Engineering General Access Lab (CENGSCL, englab@unt.edu, Discovery Park, B129, 891-6733) Close at 5 p.m. on Wednesday, Friday, December 12, 2014.

Open for regular hours at 8 a.m. Tuesday, January 20, 2015.

UNT Shuttle Service

The last day of UNT Shuttle service for Fall was December 13, 2014.

Discovery Park will run limited service starting December 15th through December 23rd. No weekend servce. <u>Click here for route times.</u>

Discovery Park will also run a limited service in January starting January 5th through January 16th. No weekend Service. Click here for route times.

Eagle Point will have limited service in January starting January 14th through January 16th.

All regular UNT Shuttle service resumes on January 20, 2015.

Check out the transit <u>website</u> to keep up with the shuttle schedule. A 2014-2015 calendar is available here: http://www.unt.edu/transit/pdf/2014-2015 calendar.pdf.

Remember:



Get your alerts fast in case of inclement weather

Visit the Emergency Management website

City of Denton Residents, sign up for the CodeRED Emergency Notification System

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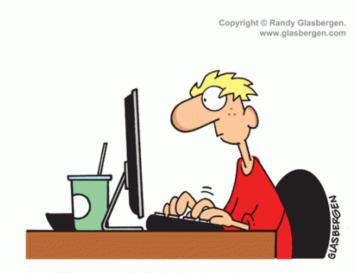
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Today's Cartoon



"This year my family decided to gather on Facebook for the holidays. Uncle Frank got into an argument with Grandpa. Aunt Gladys was offended by something she saw in Julie's profile. Mom cried because Andrew posted a photo that made her look fat. I got so annoyed, I left to hang with my friends on MySpace. It was an old fashioned Christmas after all!"

From "Today's Cartoon by Randy Glasbergen", posted with special permission. For many more cartoons, please visit www.glasbergen.com.

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