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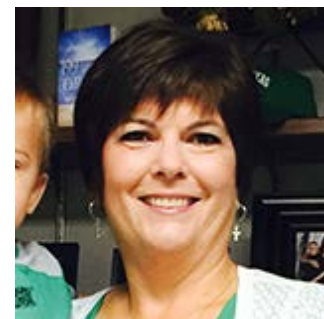
Campus Computing News



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[ID Theft](#)-
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NEW! **UNT Direct Deposit Process**

 SPEED
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Phishing Attempts Change UNT Direct Deposit Process

From Bob Brown, vice president for [Finance and Administration](#)

Message to UNT Employees: If you are changing your direct deposit bank information or setting it up for the first time, there have been some recent process changes that will affect you. [Read more about it.](#)

Swivl Technology: Are Your Presentation Skills Ready?

An interview with Ruthanne "Rudi" Thompson, associate professor and co-director of Teach North Texas.



[John Mayfield](#)

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can step into a teaching opportunity in their first semester at UNT to help determine whether teaching is their passion or pain, something to pursue – or not. To help students see themselves in a teaching career, Teach North Texas, a UNT

teacher preparatory program, adopted a handy little gadget called the Swivl to try during the 2015-2016 academic year. It is a robot, but Swivl also is a relevant tool for current faculty and others who make public presentations.

The one-pound robot's base allows 360-degrees of rotation, 25 degrees of tilt and its use in the classroom helps students gain confidence, learn better presentation skills, and save the department money and time. Providing that early teaching opportunity is just one of the innovations that the Teach North Texas program offers to prospective secondary teachers of mathematics and science as the program embraces innovative approaches to teaching and learning the STEM subjects. [Read more about it.](#)



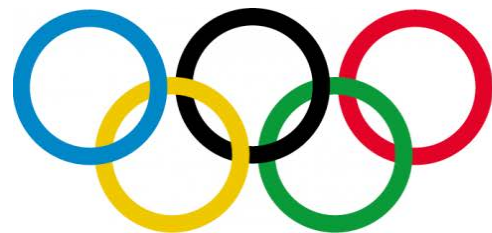
[Charlotte
Russell](#)



How Technology will Change the Look of College Football

As [Wren Baker](#), UNT vice president and director of athletics, settles in to his position this fall, and the Mean Green team takes on hometown rival SMU at Apogee on Sept.

3, some of us wonder what's new in technology for athletics? Technological advances within stadiums helped the [NCAA approve video](#) being used inside locker rooms and in coaches' boxes as a teaching tool starting in 2017. That rule was initially passed for 2016, but it was tabled in order to develop guidelines that ensure it is applied consistently throughout all levels of college football, as well as between home and road teams. [Read more about it.](#)



Olympics 2016 Rio de Janeiro, Brazil

[Olympics 2016](#) in Rio de Janeiro, Brazil – With two weeks to go before the competitions began, the executive in charge of IT talked about [delivering the tech behind the Games](#). Also, [Rio airport completed an IT overhaul](#) and [Visa has NFC wearables in trials](#) aimed at increasing awareness of the contactless payment method in Brazil.



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VIDEO: [Annual Conference Preview](#)

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To schedule an interview or photo session for a particular issue of the news journal, please contact the [Benchmarks Online editor](#) prior to the submission date deadline. Send your news, photographs, articles and other information technology or computing information to [Benchmarks Online](#).

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AITs: Ransomware – A Rising Threat



Ransomware,
John
Phishing, J.
McMullen
ID Theft-
Facebook,
T. Bacon

By Abraham John, senior director,
Administrative Information Technology Services



Simply put, ransomware is extortion and thievery by electronic means. Ransomware thieves use fear, intimidation and embarrassment to blackmail and extort payment from their victims.

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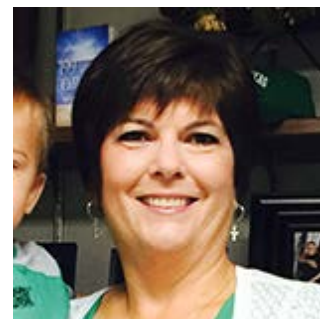
Ransomware is malware. Think of it as viruses – unwanted and uninvited guests – that lock users out of their computer systems or data, after which the criminals send out threatening messages demanding payment.

The method of infection can be malware-infected websites that will deliver their infectious payload when the site is visited. Or, it can be a message from a trusted source that entices the recipient to open an attachment that contains the infectious payload.

The motive behind ransomware is quite pedestrian. It is



People in the Zone



Ginger Boone



John Mayfield

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about money. Other types of cybercrime may have political, personal, religious or moral agendas that drive the activists/criminals, but ransomware offers an easy and relatively safe path to benefit from criminal activities.

FBI recommendation: Do not pay the ransom!



[Charlotte Russell](#)

Social Media



According to a CNN news report, \$209 million was spent by businesses and organizations to recover files locked by ransomware. The average payment ranges from \$300 to \$5,000 for individuals, and is much higher for businesses and organizations. According to the Calgary Herald, the University of Calgary was attacked on May 28, 2016 and paid \$20,000 CDN – about \$16,000 U.S. – to obtain the keys to decrypt their files that were encrypted by ransomware. The Los Angeles Times reported on Feb. 18, 2016, that Hollywood Presbyterian Medical Center paid \$17,000 as a result of ransomware. All payments take place via [Bitcoin](#) which renders the path untraceable. Look for more information about Bitcoin in the next issue of the AITS Newsletter.

A ransomware attack usually starts when an email from a trusted source that has a malicious payload is opened, via instant



message. or through social network channels, such as Facebook, or a drive-by infection when visiting an infected or malicious site. The malicious malware delivers its

payload which starts encrypting files it finds at all locations the user has visibility. This means that all shared directories the user has access to also could be impacted. This would also include OneDrive files. Since OneDrive uses a synchronization location within the user's space, any modifications made there are then synchronized to the cloud. The end result is that your files in the cloud would be modified with local infected copies.

The encryption key has been, until now, an AES-256 randomly generated one-time key. From a practical standpoint, this is unbreakable.

Three types of ransomware:

1. Encryption
2. Lock Screen
3. Master Boot Record



The **encryption** variety or crypto-ransomware encrypts user files, rendering them unusable and there is communication, either by a file or pop-up demanding payment. There may be a lock screen but there are many variations. Crypto-ransomware also may have a time limit, after which the files are permanently deleted.

The **lock screen** ransomware locks the screen and demands payment, but no files are encrypted.

The third variety is the **master boot record** ransomware, known as MBR. This prevents the computer's operating system from booting up. A ransom demand is displayed and the machine is rendered unusable until this demand is met.

With the rise of Internet of Things and home/facility/venue automation, variations of this type of

threat can render not just a work or home PC useless, it could be your air-conditioning system or your refrigerator – or it may even deny you entry to your home. You can easily imagine scenarios where “the bad element” starts to invade not only our electronic space, but also our physical one.

The threat of ransomware is real and rising, so what can we do?

...vigilance is key and regardless of the tools and knowledge, any one of us could fall victim to this crime. No one is immune. ~ *Abraham John*

As users of technology we can take steps to protect ourselves and minimize the impact.

- Visit reputable sites and restrain yourself from visiting sites that appear questionable or suspicious. Look at the link by hovering over it with your mouse before clicking.
- Backup your files and check your backups periodically.
- Don't fall prey to phishing attacks. We have an article in this issue that provides you with some tools on how to guard yourself against phishing.
- Trust but verify. Was it actually your trusted friend who sent that that email or by a bot herder masquerading as your friend.
- Perform regular operating system and application updates.
- Use an up-to-date anti-virus program. UNT employees can download the antivirus software

offering from the UNT System website:

<https://itss.untsystem.edu/security/antivirusdownload>

- On Windows machines, use the “Show file extension” option
- Turn off the computer when you will be away from it for a reasonable period of time. A computer that is off can’t be attacked.

As a home user, if you do fall victim to ransomware, break your network connection immediately. The FBI recommends **not paying** the ransom. Try to recover from backups or by identifying the malware and researching tools that may help you recover. Contact residential IT support firms who may render assistance.

As an employee, if you fall victim to ransomware, break your network connection immediately and contact your direct IT support right away. We are here to help and get you operational in the most effective and efficient way possible for all events that take place at UNT or UNT owned hardware.

Malware/viruses, like their biological brethren, evolve with help from their masters, and variants show up with traits that we may not have seen. In this arena, vigilance is key and regardless of the tools and knowledge, any one of us could fall victim to this crime. No one is immune.

Let’s work together to promote a safe computing environment!

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AITs: Phishing – Don't Click on That!

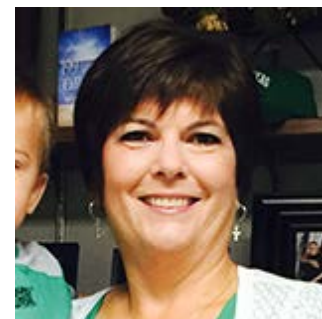


People in the Zone

[Ransomware](#), [Phishing](#), [ID Theft](#), [Facebook](#), [T. Bacon](#)



Don't Click on That! By Jason McMullen, UNT AITs



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Greetings. I hope everyone is having a great summer. A new academic year brings new attempts from the bad guys of this world to get their hands on passwords, personal information and your money!

What is Phishing and how does it work?

Simply put, phishing is an attempt to trick individuals into providing personal or financial information to criminals. Phishing is usually attempted via email, but can just as easily arrive as an instant message, social media communication, or text message. On the surface,



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phishing messages appear to come from legitimate sources like a bank or IT support. These messages will instruct a user take some action like clicking on a link, logging onto a fraudulent webpage, or providing other personal information such as credit card numbers. Phishing relies on confusing the targets of the scam to coerce them into providing this information.

What do phishing attempts look like?

Phishing can appear authentic and often will use company logos or address a user by name. Sometimes these messages claim that a user's account has become suspended or that it will be deleted if they do not respond. Other messages might claim that the user already has become a victim of a hacking scheme and should login or provide their credentials to protect themselves. Methods used by phishers become more and more sophisticated as we become more informed regarding their tactics.



[Charlotte Russell](#)

How to protect yourself!

phish·ing

/ˈfɪʃɪŋ/

noun

the activity of defrauding an online account holder of financial information by posing as a legitimate company.

"phishing exercises in which criminals create replicas of commercial Web sites"

Here is the simplest counter to phishing: Don't open suspicious email or click any links from a suspicious message. Remember that personal information or passwords will never be requested by financial companies, social network companies, or UNT IT staff. If you are unsure of the validity of a message, contact the agency directly through your normal means. For example, if you received a message from your bank that seems suspicious, call or email them directly to inquire about the message. Do not click any links or login to any websites

that you are directed to within the email. While at UNT, forward any suspicious messages to your local IT support. We can investigate and can take action to block these messages in the future.

Oops. I clicked the link and entered my account information. What now?

Don't panic! Take the following steps.

- Contact your [local IT support at UNT](#). Your local IT department can help identify what campus resources might be affected. We are here to help!
- Login directly to any accounts that either may have been affected or share the same username or password. Do this from another computer or phone if possible. Follow the instructions on those sites to change your password.
- **TIP:** It is a good idea to keep your usernames and/or passwords different for different sites. This limits the amount of reach that a bad guy would have into your accounts.
- Contact your bank, credit card companies and other financial institutions. If you entered login information for your bank or provided personal information to an unknown source, contact these folks right away.
- Scan your computer for malware: UNT ITSS offers free downloads of McAfee virus scanning software to all students and UNT employees. This software can be found at <https://itss.untsystem.edu/security/antivirus-download>.

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AITS: Identity Theft Prevention on Facebook



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facebook identity theft?

**Be smart,
be careful!
Have boundaries!**

By Troy Bacon, IT manager, AITS



People in the
Zone

So, you received an odd Facebook friend request?

Using these three tips can help protect your identity.

Have you ever received a Facebook friend request, but couldn't remember whether you knew the person? You begin to wonder, is this a distant relative, an old friend from high school, an acquaintance I met a few weeks ago at a business function?

It can be difficult to remember the names and faces of all the people we meet. Hackers know this, and they are starting to target us on Facebook. Should you receive a



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Facebook friend request from someone you don't know, it could be a hacker trying to steal your personal information on Facebook. Most users on Facebook have their personal information available to their friends, so if a hacker can become your friend, they see all of your information, including your birthdate, phone number, and email address. If you have defined relationships in Facebook, then they can see the names of your family members.

To help protect your identity, follow these easy steps the next time you receive a friend request.

1. Scan your friend request. Don't automatically accept a request, but check the other person's profile to see if it looks legitimate.

2. Check for spelling errors or poor grammar.

Many of these hackers are from overseas and they don't have a good understanding of the English language.

3. Check if you have any mutual friends. If you have mutual friends, then chances are good that the person is not a hacker.

Bonus Tip: Do not use your Facebook password anywhere else. That is just making it way too easy for the bad guys.

[John Mayfield](#)



[Charlotte
Russell](#)

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Life Imitates Art Imitates Life



By [Philip Baczewski](#), senior director, University Information Technology

You may have noticed a surge of young people out walking and congregating in public places this summer. This phenomenon is not due to a sudden healthful inspiration that drives these populations to seek fresh air and exercise. Rather, it has been compelled by the latest on line gaming fad, [Pokémon Go](#). In case you've spent your summer under a rock, and your rock is not a PokéStop, Pokémon Go is a location-aware video game for Android and iOS phones that relies on interaction in the real world for game play. Players traverse their surroundings and have the opportunity to capture [Pokémons](#) – "pocket

monsters" – which inhabit a virtual world that overlays the real one. The Pokémon are accumulated for later use in "battles" that occur at virtual Pokémon gyms.

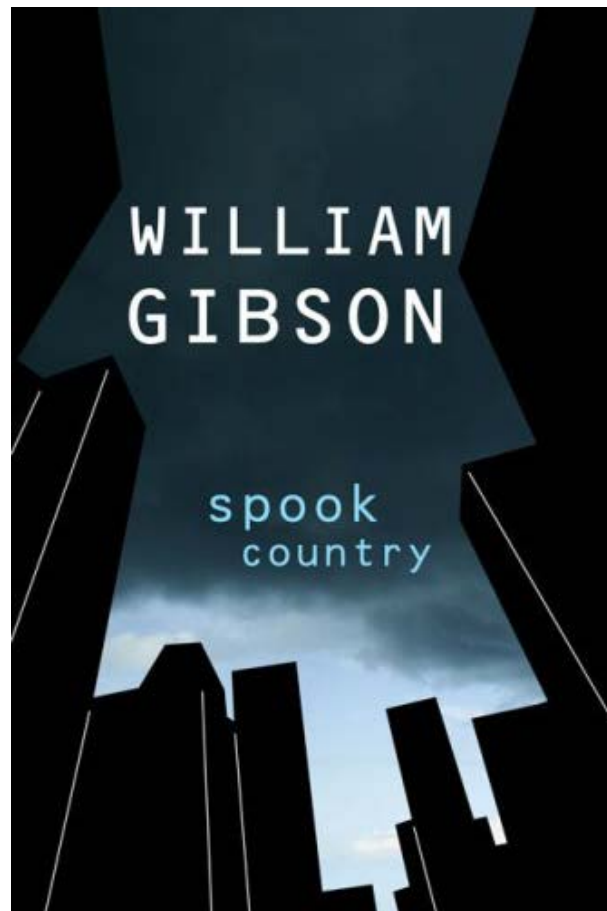


Pokémon Go is based on the [Pokémon franchise](#) which spawned a 1990s cartoon, toy, and game sensation popular among young children. It is not surprising that 20-somethings are now drawn to this new incarnation, since it provides echoes of their childhood and they are a population that has access to the smart phones that make the game possible. Pokémon Go uses the mapping, [GPS](#), and camera features of the smart phone to create its virtual overlay, but

goes farther than a simple map by using the phone's camera to overlay the image of the "wild" Pokémon on top of the real landscape and providing a way to interact and capture those Pokémon via the phone's touch screen. This seems to be the most widely used implementations of [locative media](#) we've seen to date.

Virtual locative media has been enabled by the growth in mobile technologies over the last 10 years. You could say that a historical marker is locative media, since it is tied to and references a particular physical location. Virtual locative media use mobile technologies to deliver media or information to your device based on your presence at a particular location. This could be as simple as using your smart phone to scan a [QR code](#) to view a website that provides information related to your current location, whether that be a narrative about a museum exhibit or a grocery store coupon. With the ability to integrate GPS information and camera images within custom apps, today's smart phones have the potential to provide a whole new view of the physical world through the portal of a 3- to 5-inch screen.

The idea of locative art was central to William Gibson's novel, [Spook Country](#), in which the journalist protagonist is hired to investigate and write about the subject. His story also involves an "expert in geospatial technologies" and a number of other characters that cross paths to weave what is essentially more of a "techno-thriller" than a work of science fiction, such as Gibson's earlier novels and stories which popularized the term "[cyberspace](#)." What was portrayed as complicated technology in *Spook Country* is now commonplace in our many smart phone apps, whether that is Google Maps showing you the nearest MacDonalds or a fitness app tracking your route as you are out for your morning run.



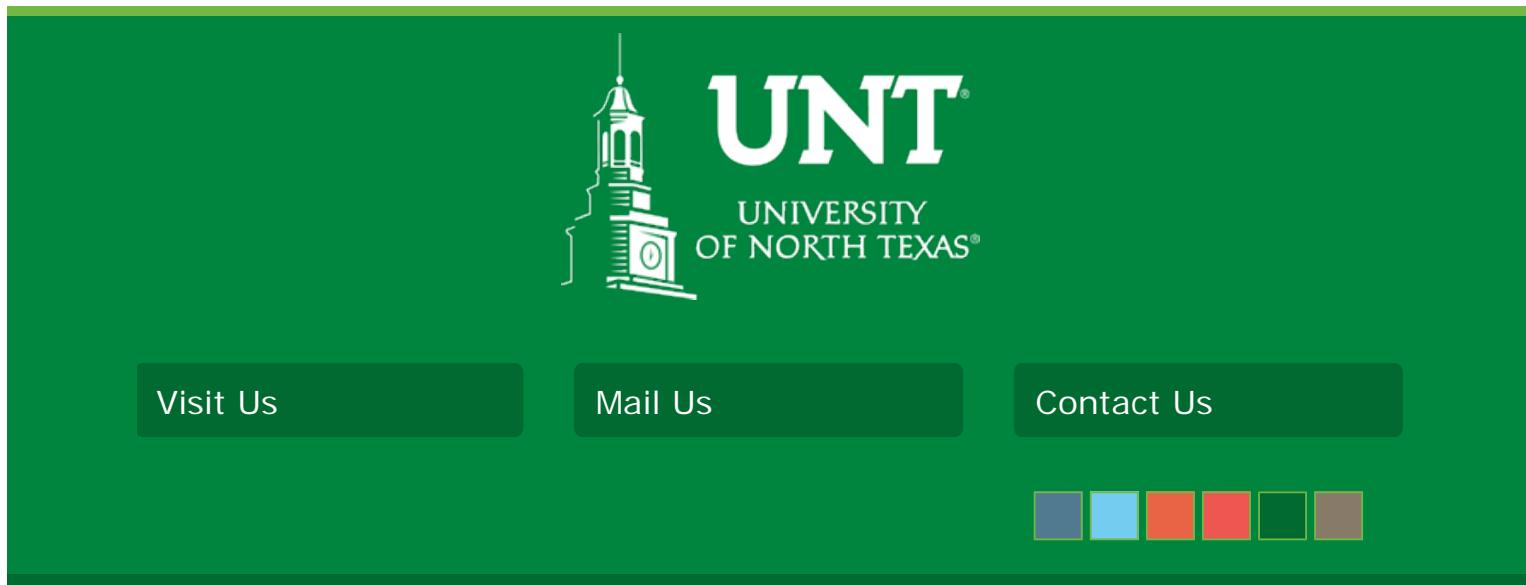
Overlaying virtual information on top of the real world is also sometimes called [augmented reality](#), AR. Pokémon Go is just one example. AR was the main purpose of the now defunct [Google Glass](#) device. You might remember all the way back in 2014 when this product was the current craze and we got to make fun of people touching and talking to their glasses. But, what Google Glass did was to overlay visual information on top of the scene you were viewing with your own eyes. Google discontinued the original Glass as a product, but stated that they would continue to develop the concept. [Yelp](#), the crowd source review service, has had a feature (currently not working on my brand new phone) called [Monocle](#) that allowed you to hold up your phone and see local restaurant and shop names overlaid on the live image captured by your phone.

Katherine Cross, in a recent [Wired](#) article, argues for a [code of ethics](#) for AR games like Pokémon Go. For one, when a game can lure you to specific locations in the real world, who is responsible for ensuring a player's safety? She goes on to point out that this is just the tip of the AR iceberg: "The world is moving rapidly toward a future where AR will not just be a gimmick in a fun mobile game, but where it will be the shingle hanging from every business and civic endeavor. Consider augmented-reality exercise regimens; AR test prep programs where children can explore their neighborhoods with AR overlays on trees, fauna, and local monuments; AR policing where a person's ID and criminal history flashes before an officer's eyes." As with all technology, there is opportunity for positive use, but also for decided abuse.

One theme of William Gibson's *Spook Country* is the "eversion" of cyberspace. That is, rather than cyberspace being a destination separate from the physical world, it is becoming an inseparable part of the real world. Pokémon Go seems to be the first widespread example. Using the world around you as a game board is either an innovative use of augmented reality or a clever plot to get young people away from their screens and out

walking in the real world. One day, Google Glass technology may be available in contact lenses and become as useful and used as Google Maps are for navigation. (When was the last time you used a paper map?) In such a case, whose to say what's real or unreal in your world?

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The image shows a green banner for the University of North Texas. On the left is a white line-art logo of a building tower. To its right is the text 'UNT' in large white letters, with 'UNIVERSITY OF NORTH TEXAS' in smaller white letters below it. Below the logo and text are three dark green buttons with white text: 'Visit Us', 'Mail Us', and 'Contact Us'. At the bottom right of the banner is a row of six small colored squares: blue, light blue, red, dark red, green, and brown.

Site last updated on September 09, 2016

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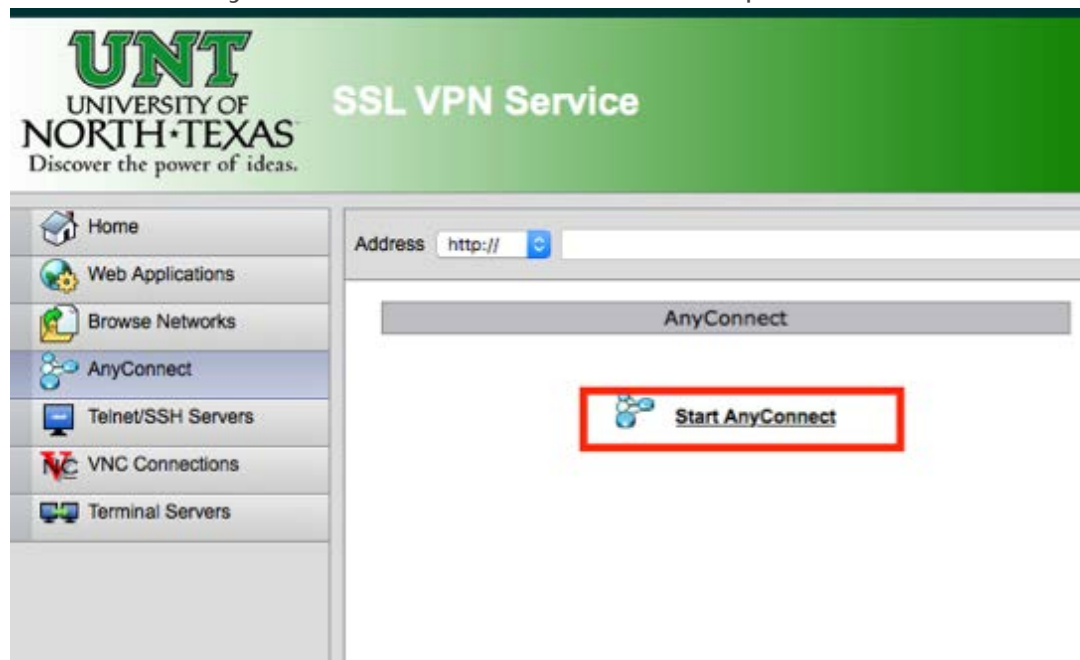
Help Desk FYI: Installing Cisco AnyConnect VPN Client

If you would like to use the University of North Texas virtual private network service, VPN, without signing in to a browser, you can install UNT's [Cisco AnyConnect Secure Mobility Client](#) on your machine.

1. Visit this website: <http://vpn.unt.edu>
2. Click "AnyConnect" on the left menu



3. Click "Start AnyConnect" to start the installation process



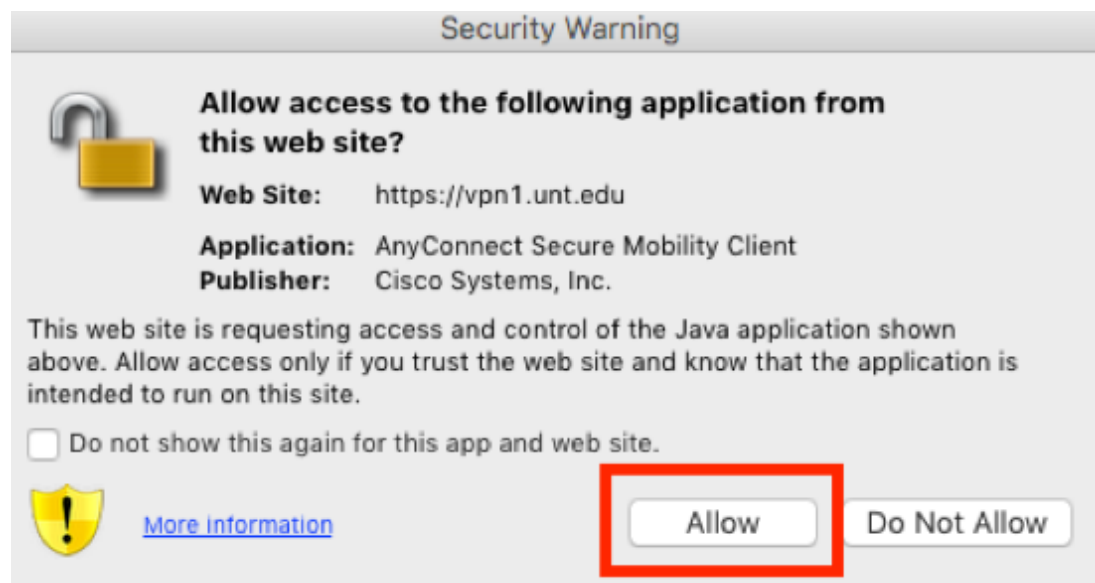
4. If your browser – Safari, Internet Explorer or Firefox – supports Java,
 4. a. Allow the Java plugin to run.



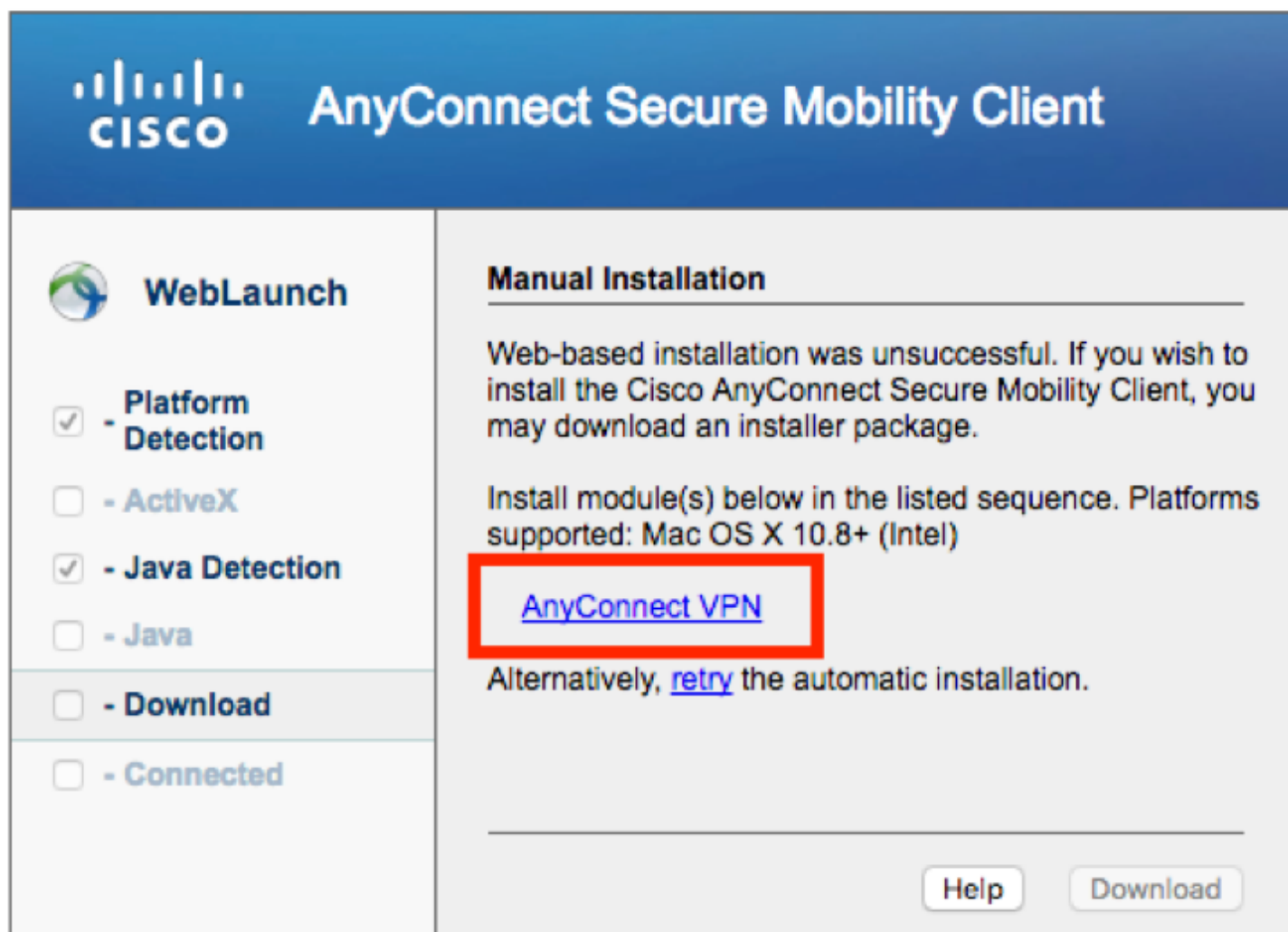
4. b. When prompted, click "Run" to run the AnyConnect Installation



4. c. Click on the word "Allow" to allow the installation.



5. If your browser does not support Java (Google Chrome, Microsoft Edge), you will see the following option. Click the AnyConnect VPN link to download the installer. You can run this file and follow the steps to install AnyConnect on your machine.



Please contact the Help Desk, should you have any questions.

940-565-2324 | [Online Help Desk](#) | helpdesk@unt.edu | Sage Hall, Room 130

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R&SS: Statistical Resources Update to Version 5



By [Jon Starkweather](#), consultant, [Research and Statistical Support](#), [Research IT Services](#)



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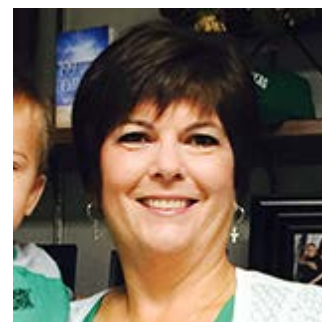
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This month's article originally appeared first in November of 2011, but periodically, it is necessary to update it with more current resources. The original article was motivated by a Research and Statistical Support Workshop for graduate students and contains much of the same content presented in the workshop: Statistical Resources. The following materials are, for the most part, freely available through the World Wide Web. The resources mentioned below fall, generally, into three categories; the resources we at R&SS maintain, the resources available to UNT community members, and resources available to the general public with access to the web.

NOTE: This article is particularly important this month, because [UIT](#) is



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Social Media



migrating all webpages to
Drupal 7 – all of our URLs are
changing.

RSS Resources

The main [R&SS website](#) offers several resources, both specific resources aimed at particular software and more general resources, e.g., [Data Management Services](#). One of the key resources available to members of the UNT community is the opportunity to set up a [consulting](#) appointment with RSS staff. The [link](#) to contact R&SS staff for consultation is prominently displayed on each of the pages associated with R&SS. The link guides clients to a web interface, known as the Front Range system, which forwards the service request to R&SS staff, who then contact the requestor directly – generally through email. Please, read the [frequently asked questions](#) prior to submitting a Front Range request. It is also important to note that R&SS staff maintains a rather extensive collection of digital and paper copies of articles, book chapters and whole books. R&SS staff members often lend copies of these – in whole or part – to clients so clients can research various analytic or methodological concepts to their own satisfaction (and often the satisfaction of their colleagues, advisors, or committees, etc.).

A second frequently used resource R&SS offers consists of the [instructional](#) services for R&SS supported software. These were initially short courses offered in a classroom twice per semester; however, they have been migrated to the online format so that they may reach a wider audience and allow self-paced learning. These pages were designed to show how a particular software package can be used (e.g., [R](#), [SPSS](#), [SAS](#)), they are not designed to teach statistics or how to interpret statistics

[John Mayfield](#)



[Charlotte
Russell](#)

(although some interpretation is offered among the many pages). In fact, some of the software supported by R&SS is not directly related to statistics (e.g., [survey technology](#) such as [Zope and QSurvey](#)). On each of the R, SPSS, SAS short course pages you will also find links to resources specific to those software packages; from user manuals provided by the software producer (e.g., [SPSS Manuals](#), [CRAN Task Views](#)) to other users' user guides or websites (e.g. [Quick-R](#), [STAT-L](#)). There is even an R specific search engine available called, [RSeek](#).

Another resource R&SS offers is displayed right here; the contributions by R&SS staff to the [Benchmarks](#) online publication in the *R&SS Matters* column. Each article in the *R&SS Matters* column is linked to the previous article and an [index of R&SS Matters](#) articles is maintained on the R&SS website. The index is quite handy for finding particular topics (e.g., canonical correlation), rather than clicking back through the years of articles available through the column links.

R&SS offers a service for instructors at UNT with which we can provide a randomly sampled data set from a fictional population named [Examplonia](#). Examplonia is a fictional country which provides a meaningful context for statistical analysis examples. The population data for Examplonia was generated to provide a statistical population from which random samples could be drawn for the completion of example statistical analysis problems. The current version of the Examplonia population contains a variety of univariate, bivariate, and multivariate effects; including random effects based on hierarchical structure. If you are an instructor for a statistics course, you may be interested in obtaining some simulated data for your class (i.e. data for in-class demonstrations, homework assignments, etc.). Learn more about the population by visiting the [Examplonia](#) webpage.

R&SS has also implemented some new services

last year; all of which are focused on making software available to researchers through a web browser and relieving them of need to download and install software. Meaning, [Sage Mathematics](#) and [RStudio](#) along with the other services, can be accessed through a web browser. Sage Mathematics is mathematical computing software which can integrate the use of **R**. A brief introduction can be found at the Sage link above. RStudio is an integrated development environment for running the **R** statistical package. A brief introduction can be found [here](#). Another new service is called [Tiki Wiki](#); an open source, freely available, content management system (CMS). More information can be found [here](#). These servers/services are available to faculty and advanced graduate students; however those interested need to submit a request for an access account for each service. Once a user has setup an account, they can simply visit the servers using their preferred web browser and conduct analyses using the software without having to install the software on their local machines.

Online Statistical Textbooks

The [Rice Virtual Lab in Statistics](#) is a valuable site for anyone interested in learning or teaching some of the basics of traditional (i.e. frequentist) statistics. The site offers several [animations](#) for understanding concepts which are often difficult for newcomers to statistics, e.g., [sampling distribution characteristics](#) and the [Central Limit Theorem](#). The Rice University Virtual Lab in Statistics also offers an online – free; no registration required – introductory statistics textbook. The textbook is called [HyperStat](#) and contains chapters which cover the usual contents such as describing univariate and bivariate data, elementary probability, the normal distribution, point estimation, interval estimation, Null Hypothesis testing, statistical power, t-tests, Analysis of Variance (ANOVA), prediction, chi-square, non-parametric tests, and effect size estimates.

Another online repository of statistical resources is the site maintained by Michael Friendly at York University. The [site](#) offers a variety of links to resources for a variety of software, tutorials for specific analyses, and sections of links for statistical societies, associations, and academic departments; as well as links to support more general computing resources (e.g., using Unix). A similar [site](#) listing various statistical resources on the web is maintained by Clay Helberg.

[Statsoft](#), the company behind the statistical software [Statistica](#), also offers web surfers a textbook covering a variety of statistical topics. The Statsoft site covers topics ranging from [elementary concepts](#), [basic statistics](#), [ANOVA/MANOVA](#) to multivariate topics such as [principle components and factor analysis](#), [multidimensional scaling](#), and [structural equation modeling](#). Unlike Statnotes, mentioned above, the Statsoft site does not offer software output or interpretation (although graphs and tables are often used). However, one handy feature of the Statsoft site is the interactive glossary; each hyperlinked word sends the users to the definition/entry for that word in the glossary. The Statsoft textbook is also [available](#) in printed form for \$80 plus shipping.

Miscellaneous Other Resources

Another resource option for members of the UNT community, which is often overlooked, is the [UNT library system](#). The library's [general catalog](#) contains a monumental collection of resources, from textbooks being used in current courses to books which focus on the statistical analyses used in particular fields and authoritative books devoted to specific types of analysis (e.g., searching "logistic regression" yielded 66 returns). Furthermore, the electronic resources offer access to thousands of periodicals (i.e. journals) from a variety of databases (e.g. EBSCOHost, Medline, ERIC, LexisNexis, & JSTOR). One of the most frequently used databases by

R&SS staff is the JSTOR database, which contains many of the most prominent methodological and statistical journals – with almost all articles available (through the UNT portal) in full text (i.e. Adobe.pdf format). Another commonly used resource is the [Journal of Statistical Software](#), which contains articles on a variety of statistical computing applications/software, as well as articles covering statistical methods. One more often consulted resource is the *little green books* which are actually a series published by [Sage](#). The [Quantitative Applications in the Social Sciences](#) series are a collection of thin, soft covered, books; each dealing with a specific research or statistical topic. The UNT library carries approximately 145 of the series' editions and the R&SS staff has collected most of the series as well. There are approximately 170 books in the series and a typical researcher would be hard pressed not to find something of value among them. Of course, there are more general resources, such as [Google](#), [Scholarpedia](#), [Wikipedia](#), and even [Youtube](#); all of which can be useful.

Until next time, remember, GIYF – Google is your friend.

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Staff Activities, July-August 2016



People in the Zone

[Ransomware](#), [A Hail and Farewell](#)

John

[Phishing](#), J. No changes

McMullen

[ID Theft-](#)

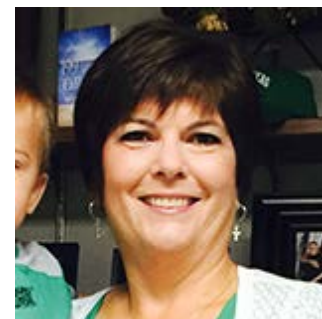
[Facebook](#).

T. Bacon

Professional Development

August

Carrie Stoeckert: [Texas Association of State Systems for Computing and Communications](#) 2016 Annual Conference, Galveston, Texas



[Ginger Boone](#)

[Network](#)

[Connection](#)

[Help Desk FYI](#)

[Research](#)

[Matters I](#)

July

[Research](#)

Elizabeth Hinkle-Turner: [Governor's Center for Management Development](#), LBJ School of Public Affairs, The University of Texas at Austin

[Matters II](#)

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[John Mayfield](#)

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Digital Humor – Today's Cartoon



[Ransomware](#), [A](#)

[John](#)

[Phishing](#), [J.](#)

[McMullen](#)

[ID Theft-](#)

[Facebook](#).

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Cloud Security Explained



[People in the Zone](#)



[Ginger Boone](#)



[John Mayfield](#)

Reading List – August 2016



Rio Olympics: [Stunning underwater Olympics shots are now taken by robots](#)

[Ransomware](#), A.

John

Vintage: The Martian Chronicles, written by Ray Bradbury – [Book](#), 1950, [Movie](#), 1980, starring Rock Hudson

[Phishing](#), J.

McMullen

[iPhone 7 Specs Point to Virtual Reality](#)

[ID Theft-](#)

[Facebook](#).

T. Bacon

[Identity Theft and the Internal Revenue Service](#)

[Network](#)

[Connection](#)

USA Today: [How to Avoid Identity Theft in 2016](#)

[Help Desk FYI](#)

[Research](#)

New App: [Pet Chatz, by Anser Innovation, LLC](#), greet and treat your pet from afar.

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People in the Zone



[Ginger Boone](#)



[John Mayfield](#)

Phishing Attempts Change UNT Direct Deposit Process



From Bob Brown, vice president for [Finance and Administration](#)

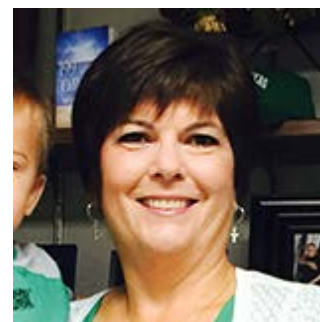


People in the Zone

[Ransomware](#), A.

John

Attention, UNT Employees



[Ginger Boone](#)

[Phishing](#), J.

McMullen

If you are changing your direct deposit bank information or setting it up for the first time, there have been some recent process changes that will affect you.

[ID Theft-Facebook](#).

T. Bacon

[Network Connection](#)

Due to a higher level of phishing emails sent to UNT email accounts, UNT System IT and Payroll teams have turned off the self-service option for direct deposit in the EIS portal, [my.unt.edu](#), [my.untdallas.edu](#), [my.hsc.unt.edu](#) and [my.untsystem.edu](#). This means new or existing employees will not be able to make any changes online regarding direct deposit while the teams actively work on options to address the potential issues.

[Help Desk FYI](#)

[Research Matters I](#)

[Research Matters II](#)

[Staff Activities](#)

[Today's Cartoon](#)

[UIT Reading List](#)

However, for employee protection, System IT and Payroll have devised a new direct-deposit form and process for employees to create or update their direct-deposit bank-



account information. The new temporary process is as follows.

[John Mayfield](#)

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1. New or existing employees who log into the direct deposit page in the EIS portal will be greeted with a message informing them that **the employee online self-service is disabled temporarily while enhancements to this service are being made.**

The message will contain a link to the new direct deposit portable document file, PDF, of a form that should be completed. The form will provide instructions on how to securely send it back to Payroll once complete.

2. Once Payroll receives the completed form, a representative will call the employee within 24 to 48 hours to verify the accuracy of the new direct-deposit bank information.

3. Payroll will then create or update the employee's direct-deposit bank account information within the EIS portal and promptly send an email informing the employee that the direct-deposit bank information has been properly set up.

4. As is standard, an auto generated email notice from EIS also will be sent to the employee alerting them that a change has been made to their direct deposit bank account information.

If you have any questions, please contact a Payroll or BSC Client Services team member at 940-369-5500 or toll free at 855-868-4357.



[Charlotte Russell](#)

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Hotspot – Ginger Boone

[Ransomware,](#)

John

[Phishing,](#)

J. McMullen

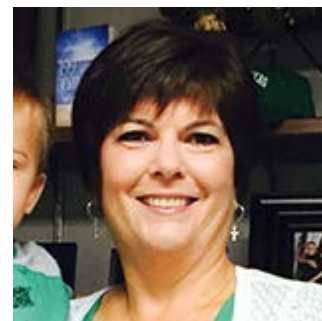
[ID Theft-](#)[Facebook.](#)

T. Bacon

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As various UNT information technology groups coalesced in 2010 to form Administrative Information Technology Services, Facilities and Risk Management were two areas requiring IT support that gave "a great deal of pause" to **Abraham John**, senior director, UNT AITS, he said. That was six years ago when the areas were supported by six servers; they are up to 31 now.

"When Ginger agreed to tackle that portion of AITS, I stopped worrying about the "what ifs," because I knew she would take care of the areas very well," said John. **Ginger Boone**, IT manager, along with **Alan Garrison**, IT specialist, and **Jason McMullen**, AITS manager for Facilities, Auxiliary Services and Athletics, (and Boone's supervisor), "brought that part of our support spectrum away from the brink and have it on firm footing. If I ever needed to jump into darkness, I would want Ginger and folks, such as Alan, Jason and others of my AITS team, covering my six," said John.

**People in the
Zone**[Ginger Boone](#)[John Mayfield](#)

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Social Media



[Charlotte
Russell](#)

After 25 years at UNT, Boone recalls that she started in the mainframe world when local area networks evolved. She started at UNT as the first full-time network manager for the Office of the Registrar on the first floor of the Hurley Administration Building after 11 years of experience at Weber Aircraft, Inc., in Gainesville, Texas. Boone might have pursued a teaching profession since she holds a Bachelor of Science in Home Economics Education from UNT, but instead learned information technology through on-the-job training and has worked in the UNT Union, the School of Library and Information Sciences, Student Development and Enrollment Management.

"Never did I dream my career would be in IT. I am on the FASA Team, and I would not trade my job for anything; I truly believe my path was God driven," she said. The team is responsible for building, securing and maintaining the computer systems with one full-time IT specialist,

Garrison, and three student technicians who are "awesome," Boone said.

Garrison is working on the campuswide security-camera project and was instrumental in building the technology in the new Emergency Operations Center, a division of Risk Management, Boone said. With so much to support, we have to rely on our student techs. When they leave, they have a very broad knowledge of technology.

Boone said her favorite things about working at UNT include being in the higher education environment and knowing the people she supports, she said.

"My work can be fun and exciting, but it also can be very stressful," Boone said.

So, where does Boone turn to relieve work-related stress? In addition to working out, Boone says her family is her greatest reward – two married sons, **Brandon** and **Bradley**, both of whom are firefighters and paramedics for the City of Denton. She loves her daughters-in-law, whom Boone calls "keepers." **Lindsey**, the principal at a local elementary school, and **Megan**, a third-grade teacher, are "her girls," and she spoils them when she can, because, with two sons and four grandsons, the girls are outnumbered. Boone's grandchildren range in age from two to 15; the youngest grandson, **Cash**, is pictured on a visit to Mean Green country with his grandmother.

"We are very close and enjoy family time. I'm a country girl at heart, living on the family farm where we grow crops and raise cattle. I enjoy working in my yard and cooking for family gatherings. I also enjoy going to my grandsons' sporting events, and watching my son and daughter-in-law compete in roping and barrel racing.

"I never got into gaming," said Boone, but her favorite

app on her phone is [MyFitnessPal](#), a free online calorie counter, diet planner and activity tracker. "As long as I log my food, it calls me out when I eat too much!"

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Hotspot – John Mayfield

Who do you call at UNT when Drupal has you in knots? **John Mayfield**, the on-campus Sensei Drupal ninja, that's who!

Mayfield began working with Drupal in 2010, when it became UNT's content management software. It has great standard features, such as easy content authoring, reliable performance, and excellent security, and it is used worldwide to make about [a million websites and applications](#). However, it is also well known for having a [steep learning curve](#); it takes time, effort and tenacity to learn it – and longer to be good at it.



I enjoy working with Drupal, Mayfield said, and I take a lot of joy in helping other people with it. What sets it apart is its flexibility; modularity is one of its core principles, but there is a lot to learn. Its tools help you build the versatile, structured content that dynamic web experiences need. That is why I created the Drupal Groupal, a networking group for Drupal administrators at UNT. I know that the contacts and friends I have made through the DG have made my job a lot easier and I hope I have helped a few people along the way.

A Drupal website is extremely dynamic in nature and can be used for a variety of applications that will assist you in connecting to your target audience and help you sell your products on the web. Drupal is one of the most



efficient tools that is available for online content management. Due to its flexible infrastructure and rapid loading, Drupal is a preferred choice from among web development platforms.

I started at UNT in July of 1996 working in Facilities, in the Moving and Hauling crew, but I had always had enjoyed working with computers in my spare time. Eventually, I bought a computer and a software called Microsoft Office FrontPage," Mayfield said. FrontPage is a discontinued WYSIWYG HTML editor and website administration tool from Microsoft for the Microsoft Windows line of operating systems. It was branded as part of the Microsoft Office suite from 1997 to 2003.

"I started messing around a little bit on my own time, teaching myself HTML and web design, just for fun. This was still the late 1990s, very early in the grand scheme of websites as we know them today. I was working in the Surplus Warehouse for Purchasing and Payment Services Department, when they decided to make a website for the surplus auctions, and I volunteered to do it, even though I was mostly clueless on web design/development. With the help of a lot of great – and very patient people – in the IT community at UNT, I continued to work on and improve my abilities and knowledge." Mayfield said, crediting URCM's **Kenn Moffitt**, senior director, communication systems and digital marketing, and **Charity Beck**, director, brand marketing and technology.

Drupal is really a terrific content management system, no matter how frustrating it is in the beginning. The key to web design is to always stay flexible. Technology, software, and user experience and preference are constantly changing. Staying static is a recipe for failure. ~Drupal Groupal member



"In 2008, I applied for and got the job I have now, web developer for UNT-International. Working here, I have had the great privilege of working with many profoundly talented folks: **Randy Evans, Dani Nicholson, Mike Buras, Trisha Spence, Greg Altuna, Laura Garrison, and Ursula Williams**, just to name a few," said Mayfield. "They have helped and inspired me to continue to grow as a web developer, and encouraged me to never settle, and to keep striving to do the best work and have the best website possible."



"I have been at UNT for 20 years now, and it's hard to imagine working anywhere else. The folks I have met and collaborated here are among the best friends I have," said Mayfield.

Mayfield is co-parent of a 13-year-old son, who he says "keeps me on my toes and we have a lot of fun together. We enjoy cooking and playing games together. He is an aspiring actor that has just gone through the DCTA drama camp this summer."

Your favorite app in your smartphone

Uber. It's completely genius

Mac or PC or both

PC. I've never had a mac computer.

Have you played Pokemon Go?

No, but my son is obsessed with it.

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Teach North Texas Presentations Hinge on Swivl Technology

Millions of people make presentations daily – how do yours compete?

The power and reach of a presentation can mean stardom or obscurity for an aspiring singer, a politician – or even a classroom teacher.

Why is a good presentation even a big deal; can it really kill a good idea? Can good presentation skills help engage and retain students from one semester to the next?

[Teach North Texas](#),
under the co-direction



of **Pam Harrell** and **Ruthanne “Rudi” Thompson** have adopted **Swivl™** technology to help budding and aspiring teachers answer those questions. The TNT program prepares and supports secondary teachers of mathematics and science, addresses the national and regional need for excellence and innovation in teaching science and technology. With 52 students in 2008, TNT now has more than 300 students in the program that prepares teachers of science, technology, engineering and mathematics, STEM, subjects to enter the labor force in local school districts.

TNT uses Swivl technology by providing student-teachers the hardware and software to capture each student’s unique teaching experience. Students use it in practice sessions and the classroom. The recording allows the assigned master teacher to analyze the student teacher’s techniques and provide valuable feedback. Approximately 10 Swivl units are in use with TNT’s mentoring program that pairs student teachers with compatible mentor teachers from local school districts.

According to Dr. Thompson, Swivl is a tool that acts as a private camera operator within the classroom. With headquarters in San Carlos, Calif., the Swivl device is made by Satarii, a small privately-held educational technology company that makes easy-to-use, inexpensive solutions that help teachers and students use video to improve themselves, their presentations and their teaching skills. The device, which costs about \$500 per unit with an enhanced audio bundle, is used for presentations, time-lapses, videos, or just about anything else that you want to record. The majority of people who would have a use for Swivl are school administrators, instructors, students, and in business. What makes a truly impactful flipped, online or blended course are the same things that make an impactful face-to-face course: the content, the dialogue and the connections between members of the class – with a robot there to record it.



The Swivl system is compatible with Android and iOS devices, and comes with a portfolio of apps and supporting accessories including a free video assessment and a reflection app for students along with a video-coaching and collaboration platform for

teachers and students to use.

Just dock your iPad, iPhone, Android tablet or phone into the Swivl base; it has a sensor on the front of the base to pick up a signal from a pendant that you wear around your neck or carry. The device detects the signal and swivels to cover your moves. A wireless microphone picks up the sound as you present. You can record your presentation on your device by using the Swivl Cloud or Swivl Capture app. Video blogs, Vlogs, are one way in which groups can get their video feeds out. Swivl Cloud software makes the recorded data available to anyone online.

Dr. Thompson answers a few questions with her answers captured by the Swivl and stored in the cloud for viewing the same way a student, student-teacher or another user would access a recording. **Click on a link below to see the Swivl-produced videos.**

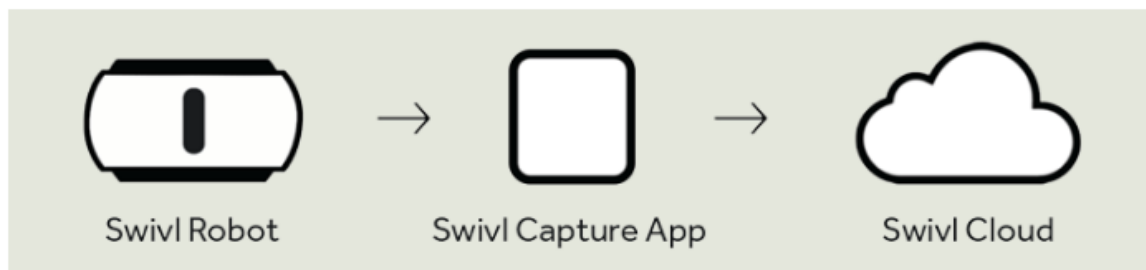
[How do you use Swivl?](#)

[How does TNT benefit from using Swivl?](#)

[Are there any additional applications of Swivl?](#)

"We are using Swivl to give our students an opportunity to build on reflective teaching practices," said Dr. Thompson. It's useful to realize how many times you say "um" in a presentation, touch your hair or know when you have omitted an important step in a rubric. Swivl allows student-teachers to work on voice level, body language, and all those different things required in the classroom to challenge students and allow the lessons to flow well, she said. Under the guidance of mentor teachers, who are experienced elementary, middle school, and high school teachers, our students use Swivl during their field-based experiences. Mentor teachers open their classrooms to a pair of TNT students, offering guidance and support as they begin to learn about classroom teaching.

Indeed,
the most



captivating communicators use meaningful data, examples and supporting points. They have a unifying message that their audience would remember without the benefit of a transcript or notes. With a Swivl, teachers can analyze how the lesson or information was presented and how well the presenter responded to the students. Even watching the body language of the presenter can be helpful in perfecting a presentation. Although each TNT student completing a practice teaching session is monitored by the classroom teacher, the robot does allow monitoring of a presentation without an evaluator in the room to

distract the audience or presenter.

Swivl™: But we're about more than just video. We believe classroom technology needs to follow the same transformation teaching has undergone. From sage on the stage to guide on the side. Technology needs to get less immersive. It needs to focus on helping free up teachers to be more effective at personalization and reinforce the social bonds that make up our learning environments.



So, whether you are an employee standing in front of coworkers, at a conference giving a presentation or in a COMM 2040 Public Speaking course, Swivl might be the answer to burying your butterflies. Planning, preparation and practice are key to an effective presentation for a new or experience presenter and the Swivl robot is making it easier to build confidence, Thompson said.

Recorded teacher presentations may one day replace or at least supplement the evaluation process of experienced teachers too, said Dr. Thompson. With many of teachers out in the field, master teachers, deans or chairs of any department now can view a presentation, gather information without hours of driving to and from dozens of teaching locations and later view the video at their convenience.

TNT is a replication of the nationally recognized [UTeach program at the University of Texas at Austin](#). The program emphasizes early and ongoing field-based experiences and fulfills all requirements for certification in Texas.

Dr. Thompson is a science education professor at UNT and involved in many innovative projects such as National Science Foundation Research Experience for Teachers involving wireless sensor networks, State Energy Conservation Office involving SMART Schools, EMERGE, and most notably, she serves as the director of the City of Dallas' Environmental Education Initiative. She teaches Biology 1028: Biology for Educators and a graduate-level course, Scientific Teaching in the Classroom.

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Hotspot – Charlotte Russell



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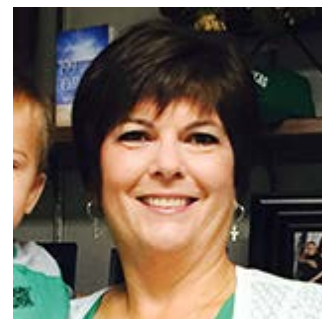
Looking ahead toward the 2016 EDUCAUSE annual conference, Oct. 25-28, 2016 in Anaheim, Calif., the [top 10 information technology issues](#) in higher education warrant consideration. The number one issue is information security and that brings **Charlotte Russell** into the Hotspot. Russell is the [chief information security officer and senior director of management and risk services for the UNT System](#).

[Russell's responsibilities include the following areas.](#)

Management of enterprise IT policy and strategic planning,
 Risk assessment,
 Information security management programs,
 Business continuity and disaster recovery planning,
 Vendor and contract management services,



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Communications and marketing,
Professional development services,
Software licensing,
Information services and resource support,
Accessibility programs, and State of Texas initiative
analysis and reporting.



[Charlotte
Russell](#)

Information

Security: Developing a holistic, agile approach to information security to create a secure network, develop security policies, and reduce institutional exposure to information security threats.

~EDUCAUSE

It is no surprise that cyberattacks are increasing, but the speed at which this is happening is breathtaking. As the threats continue to mount, understanding and managing cybersecurity risks have become top of mind for leaders in business and government. Increasingly, they are adopting innovative technologies, such as cloud-enabled cybersecurity, Big Data analytics and advanced authentication to reduce cyber-risks and improve cybersecurity programs. View the key themes of [The Global State of Information Security® Survey 2016](#) from [PricewaterhouseCoopers](#), a professional network company with headquarters in London delivering assurance, advisory and tax services in more than 775 cities across 150 countries.

Remember: A [free download of McAfee VirusScan Enterprise 8.8i software](#) is available to students and employees with a valid Enterprise User

Identification, EUID, and password.



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Benchmarks Online, August 2016



Campus Computing News



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McMullen
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T. Bacon

NEW! **UNT Direct Deposit Process**

 SPEED
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Phishing Attempts Change UNT Direct Deposit Process

From Bob Brown, vice president for [Finance and Administration](#)

Message to UNT Employees: If you are changing your direct deposit bank information or setting it up for the first time, there have been some recent process changes that will affect you. [Read more about it.](#)

Swivl Technology: Are Your Presentation Skills Ready?

An interview with Ruthanne "Rudi" Thompson, associate professor and co-director of Teach North Texas.



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can step into a teaching opportunity in their first semester at UNT to help determine whether teaching is their passion or pain, something to pursue – or not. To help students see themselves in a teaching career, Teach North Texas, a UNT

teacher preparatory program, adopted a handy little gadget called the Swivl to try during the 2015-2016 academic year. It is a robot, but Swivl also is a relevant tool for current faculty and others who make public presentations.

The one-pound robot's base allows 360-degrees of rotation, 25 degrees of tilt and its use in the classroom helps students gain confidence, learn better presentation skills, and save the department money and time. Providing that early teaching opportunity is just one of the innovations that the Teach North Texas program offers to prospective secondary teachers of mathematics and science as the program embraces innovative approaches to teaching and learning the STEM subjects. [Read more about it.](#)



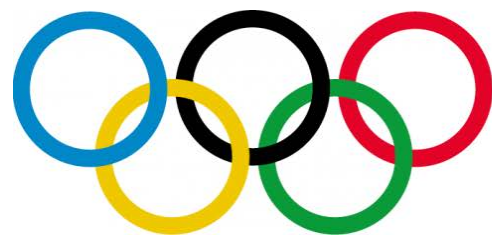
[Charlotte Russell](#)



How Technology will Change the Look of College Football

As [Wren Baker](#), UNT vice president and director of athletics, settles in to his position this fall, and the Mean Green team takes on hometown rival SMU at Apogee on Sept.

3, some of us wonder what's new in technology for athletics? Technological advances within stadiums helped the [NCAA approve video](#) being used inside locker rooms and in coaches' boxes as a teaching tool starting in 2017. That rule was initially passed for 2016, but it was tabled in order to develop guidelines that ensure it is applied consistently throughout all levels of college football, as well as between home and road teams. [Read more about it.](#)



Olympics 2016 Rio de Janeiro, Brazil

[Olympics 2016](#) in Rio de Janeiro, Brazil – With two weeks to go before the competitions began, the executive in charge of IT talked about [delivering the tech behind the Games](#). Also, [Rio airport completed an IT overhaul](#) and [Visa has NFC wearables in trials](#) aimed at increasing awareness of the contactless payment method in Brazil.



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VIDEO: [Annual Conference Preview](#)

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Sept. 15	Oct. 5, 5 p.m.	Oct. 15
Nov. 15	Dec. 5, 5 p.m.	Dec. 15
Jan. 15, 2017	Feb. 5, 5 p.m.	Feb. 15, 2017
March 15, 2017	April 5, 5 p.m.	April 15, 2017
May 15, 2017	June 5, 2016	June 15, 2017
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AITs: Ransomware – A Rising Threat



Ransomware,
John
Phishing, J.
McMullen
ID Theft-
Facebook,
T. Bacon

By Abraham John, senior director,
Administrative Information Technology Services



Simply put, ransomware is extortion and thievery by electronic means. Ransomware thieves use fear, intimidation and embarrassment to blackmail and extort payment from their victims.

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Ransomware is malware. Think of it as viruses – unwanted and uninvited guests – that lock users out of their computer systems or data, after which the criminals send out threatening messages demanding payment.

The method of infection can be malware-infected websites that will deliver their infectious payload when the site is visited. Or, it can be a message from a trusted source that entices the recipient to open an attachment that contains the infectious payload.

The motive behind ransomware is quite pedestrian. It is



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about money. Other types of cybercrime may have political, personal, religious or moral agendas that drive the activists/criminals, but ransomware offers an easy and relatively safe path to benefit from criminal activities.

FBI recommendation: Do not
pay the ransom!



[Charlotte
Russell](#)

Social Media



According to a CNN news report, \$209 million was spent by businesses and organizations to recover files locked by ransomware. The average payment ranges from \$300 to \$5,000 for individuals, and is much higher for businesses and organizations. According to the Calgary Herald, the University of Calgary was attacked on May 28, 2016 and paid \$20,000 CDN – about \$16,000 U.S. – to obtain the keys to decrypt their files that were encrypted by ransomware. The Los Angeles Times reported on Feb. 18, 2016, that Hollywood Presbyterian Medical Center paid \$17,000 as a result of ransomware. All payments take place via [Bitcoin](#) which renders the path untraceable. Look for more information about Bitcoin in the next issue of the AITS Newsletter.

A ransomware attack usually starts when an email from a trusted source that has a malicious payload is opened, via instant



message. or through social network channels, such as Facebook, or a drive-by infection when visiting an infected or malicious site. The malicious malware delivers its

payload which starts encrypting files it finds at all locations the user has visibility. This means that all shared directories the user has access to also could be impacted. This would also include OneDrive files. Since OneDrive uses a synchronization location within the user's space, any modifications made there are then synchronized to the cloud. The end result is that your files in the cloud would be modified with local infected copies.

The encryption key has been, until now, an AES-256 randomly generated one-time key. From a practical standpoint, this is unbreakable.

Three types of ransomware:

1. Encryption
2. Lock Screen
3. Master Boot Record



The **encryption** variety or crypto-ransomware encrypts user files, rendering them unusable and there is communication, either by a file or pop-up demanding payment. There may be a lock screen but there are many variations. Crypto-ransomware also may have a time limit, after which the files are permanently deleted.

The **lock screen** ransomware locks the screen and demands payment, but no files are encrypted.

The third variety is the **master boot record** ransomware, known as MBR. This prevents the computer's operating system from booting up. A ransom demand is displayed and the machine is rendered unusable until this demand is met.

With the rise of Internet of Things and home/facility/venue automation, variations of this type of

threat can render not just a work or home PC useless, it could be your air-conditioning system or your refrigerator – or it may even deny you entry to your home. You can easily imagine scenarios where “the bad element” starts to invade not only our electronic space, but also our physical one.

The threat of ransomware is real and rising, so what can we do?

...vigilance is key and regardless of the tools and knowledge, any one of us could fall victim to this crime. No one is immune. ~ *Abraham John*

As users of technology we can take steps to protect ourselves and minimize the impact.

- Visit reputable sites and restrain yourself from visiting sites that appear questionable or suspicious. Look at the link by hovering over it with your mouse before clicking.
- Backup your files and check your backups periodically.
- Don't fall prey to phishing attacks. We have an article in this issue that provides you with some tools on how to guard yourself against phishing.
- Trust but verify. Was it actually your trusted friend who sent that that email or by a bot herder masquerading as your friend.
- Perform regular operating system and application updates.
- Use an up-to-date anti-virus program. UNT employees can download the antivirus software

offering from the UNT System website:

<https://itss.untssystem.edu/security/antivirusdownload>

- On Windows machines, use the “Show file extension” option
- Turn off the computer when you will be away from it for a reasonable period of time. A computer that is off can’t be attacked.

As a home user, if you do fall victim to ransomware, break your network connection immediately. The FBI recommends **not paying** the ransom. Try to recover from backups or by identifying the malware and researching tools that may help you recover. Contact residential IT support firms who may render assistance.

As an employee, if you fall victim to ransomware, break your network connection immediately and contact your direct IT support right away. We are here to help and get you operational in the most effective and efficient way possible for all events that take place at UNT or UNT owned hardware.

Malware/viruses, like their biological brethren, evolve with help from their masters, and variants show up with traits that we may not have seen. In this arena, vigilance is key and regardless of the tools and knowledge, any one of us could fall victim to this crime. No one is immune.

Let’s work together to promote a safe computing environment!

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AITS: Phishing – Don't Click on That!



[Ransomware](#), [Phishing](#), [ID Theft](#), [Facebook](#), [T. Bacon](#)

[Network Connection](#), [Help Desk FYI](#), [Research Matters I](#), [Research Matters II](#), [Staff Activities](#), [Today's Cartoon](#), [UIT Reading List](#)



Don't Click on That! By Jason McMullen, UNT AITS

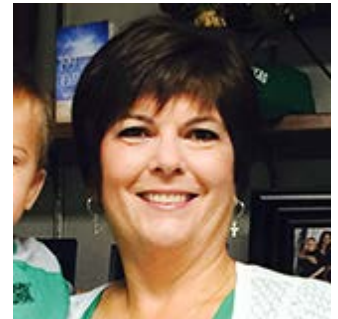
Greetings. I hope everyone is having a great summer. A new academic year brings new attempts from the bad guys of this world to get their hands on passwords, personal information and your money!

What is Phishing and how does it work?

Simply put, phishing is an attempt to trick individuals into providing personal or financial information to criminals. Phishing is usually attempted via email, but can just as easily arrive as an instant message, social media communication, or text message. On the surface,



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phishing messages appear to come from legitimate sources like a bank or IT support. These messages will instruct a user take some action like clicking on a link, logging onto a fraudulent webpage, or providing other personal information such as credit card numbers. Phishing relies on confusing the targets of the scam to coerce them into providing this information.

What do phishing attempts look like?

Phishing can appear authentic and often will use company logos or address a user by name. Sometimes these messages claim that a user's account has become suspended or that it will be deleted if they do not respond. Other messages might claim that the user already has become a victim of a hacking scheme and should login or provide their credentials to protect themselves. Methods used by phishers become more and more sophisticated as we become more informed regarding their tactics.



[Charlotte Russell](#)

How to protect yourself!

phish·ing

/ˈfɪʃɪŋ/

noun

the activity of defrauding an online account holder of financial information by posing as a legitimate company.

"phishing exercises in which criminals create replicas of commercial Web sites"

Here is the simplest counter to phishing: Don't open suspicious email or click any links from a suspicious message. Remember that personal information or passwords will never be requested by financial companies, social network companies, or UNT IT staff. If you are unsure of the validity of a message, contact the agency directly through your normal means. For example, if you received a message from your bank that seems suspicious, call or email them directly to inquire about the message. Do not click any links or login to any websites

that you are directed to within the email. While at UNT, forward any suspicious messages to your local IT support. We can investigate and can take action to block these messages in the future.

Oops. I clicked the link and entered my account information. What now?

Don't panic! Take the following steps.

- Contact your [local IT support at UNT](#). Your local IT department can help identify what campus resources might be affected. We are here to help!
- Login directly to any accounts that either may have been affected or share the same username or password. Do this from another computer or phone if possible. Follow the instructions on those sites to change your password.
- **TIP:** It is a good idea to keep your usernames and/or passwords different for different sites. This limits the amount of reach that a bad guy would have into your accounts.
- Contact your bank, credit card companies and other financial institutions. If you entered login information for your bank or provided personal information to an unknown source, contact these folks right away.
- Scan your computer for malware: UNT ITSS offers free downloads of McAfee virus scanning software to all students and UNT employees. This software can be found at <https://itss.untsystem.edu/security/antivirus-download>.

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AITS: Identity Theft Prevention on Facebook



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facebook identity theft?

**Be smart,
be careful!
Have boundaries!**

By Troy Bacon, IT manager, AITS



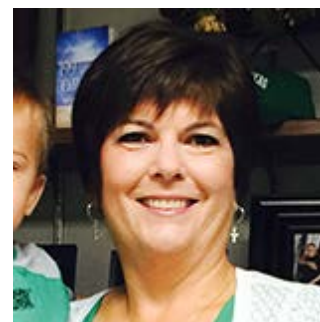
People in the
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So, you received an odd Facebook friend request?

Using these three tips can help protect your identity.

Have you ever received a Facebook friend request, but couldn't remember whether you knew the person? You begin to wonder, is this a distant relative, an old friend from high school, an acquaintance I met a few weeks ago at a business function?

It can be difficult to remember the names and faces of all the people we meet. Hackers know this, and they are starting to target us on Facebook. Should you receive a



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Facebook friend request from someone you don't know, it could be a hacker trying to steal your personal information on Facebook. Most users on Facebook have their personal information available to their friends, so if a hacker can become your friend, they see all of your information, including your birthdate, phone number, and email address. If you have defined relationships in Facebook, then they can see the names of your family members.

To help protect your identity, follow these easy steps the next time you receive a friend request.

1. Scan your friend request. Don't automatically accept a request, but check the other person's profile to see if it looks legitimate.

2. Check for spelling errors or poor grammar.

Many of these hackers are from overseas and they don't have a good understanding of the English language.

3. Check if you have any mutual friends. If you have mutual friends, then chances are good that the person is not a hacker.

Bonus Tip: Do not use your Facebook password anywhere else. That is just making it way too easy for the bad guys.

[John Mayfield](#)



[Charlotte
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Life Imitates Art Imitates Life



By [Philip Baczewski](#), senior director, University Information Technology

You may have noticed a surge of young people out walking and congregating in public places this summer. This phenomenon is not due to a sudden healthful inspiration that drives these populations to seek fresh air and exercise. Rather, it has been compelled by the latest on line gaming fad, [Pokémon Go](#). In case you've spent your summer under a rock, and your rock is not a PokéStop, Pokémon Go is a location-aware video game for Android and iOS phones that relies on interaction in the real world for game play. Players traverse their surroundings and have the opportunity to capture [Pokémons](#) – "pocket

monsters" – which inhabit a virtual world that overlays the real one. The Pokémon are accumulated for later use in "battles" that occur at virtual Pokémon gyms.

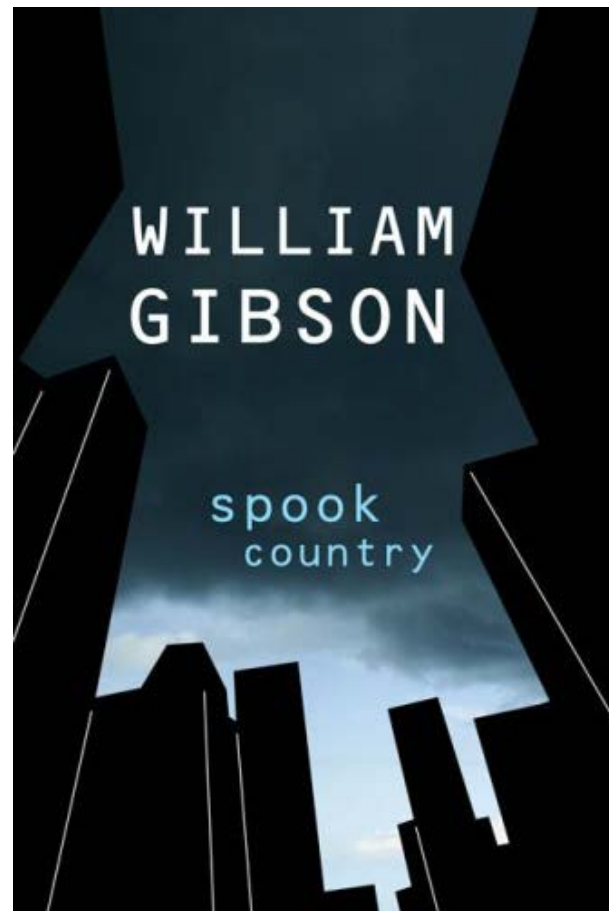


Pokémon Go is based on the [Pokémon franchise](#) which spawned a 1990s cartoon, toy, and game sensation popular among young children. It is not surprising that 20-somethings are now drawn to this new incarnation, since it provides echoes of their childhood and they are a population that has access to the smart phones that make the game possible. Pokémon Go uses the mapping, [GPS](#), and camera features of the smart phone to create its virtual overlay, but

goes farther than a simple map by using the phone's camera to overlay the image of the "wild" Pokémon on top of the real landscape and providing a way to interact and capture those Pokémon via the phone's touch screen. This seems to be the most widely used implementations of [locative media](#) we've seen to date.

Virtual locative media has been enabled by the growth in mobile technologies over the last 10 years. You could say that a historical marker is locative media, since it is tied to and references a particular physical location. Virtual locative media use mobile technologies to deliver media or information to your device based on your presence at a particular location. This could be as simple as using your smart phone to scan a [QR code](#) to view a website that provides information related to your current location, whether that be a narrative about a museum exhibit or a grocery store coupon. With the ability to integrate GPS information and camera images within custom apps, today's smart phones have the potential to provide a whole new view of the physical world through the portal of a 3- to 5-inch screen.

The idea of locative art was central to William Gibson's novel, [Spook Country](#), in which the journalist protagonist is hired to investigate and write about the subject. His story also involves an "expert in geospatial technologies" and a number of other characters that cross paths to weave what is essentially more of a "techno-thriller" than a work of science fiction, such as Gibson's earlier novels and stories which popularized the term "[cyberspace](#)." What was portrayed as complicated technology in *Spook Country* is now commonplace in our many smart phone apps, whether that is Google Maps showing you the nearest MacDonalds or a fitness app tracking your route as you are out for your morning run.



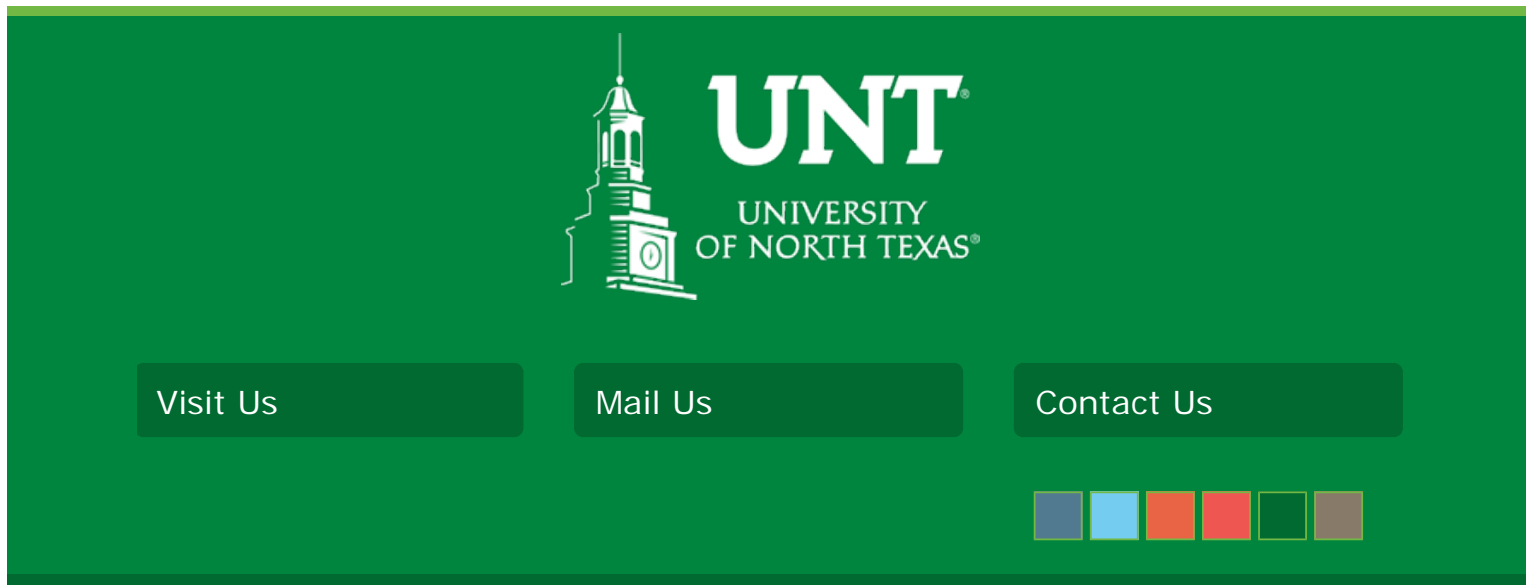
Overlaying virtual information on top of the real world is also sometimes called [augmented reality](#), AR. Pokémon Go is just one example. AR was the main purpose of the now defunct [Google Glass](#) device. You might remember all the way back in 2014 when this product was the current craze and we got to make fun of people touching and talking to their glasses. But, what Google Glass did was to overlay visual information on top of the scene you were viewing with your own eyes. Google discontinued the original Glass as a product, but stated that they would continue to develop the concept. [Yelp](#), the crowd source review service, has had a feature (currently not working on my brand new phone) called [Monocle](#) that allowed you to hold up your phone and see local restaurant and shop names overlaid on the live image captured by your phone.

Katherine Cross, in a recent [Wired](#) article, argues for a [code of ethics](#) for AR games like Pokémon Go. For one, when a game can lure you to specific locations in the real world, who is responsible for ensuring a player's safety? She goes on to point out that this is just the tip of the AR iceberg: "The world is moving rapidly toward a future where AR will not just be a gimmick in a fun mobile game, but where it will be the shingle hanging from every business and civic endeavor. Consider augmented-reality exercise regimens; AR test prep programs where children can explore their neighborhoods with AR overlays on trees, fauna, and local monuments; AR policing where a person's ID and criminal history flashes before an officer's eyes." As with all technology, there is opportunity for positive use, but also for decided abuse.

One theme of William Gibson's *Spook Country* is the "eversion" of cyberspace. That is, rather than cyberspace being a destination separate from the physical world, it is becoming an inseparable part of the real world. Pokémon Go seems to be the first widespread example. Using the world around you as a game board is either an innovative use of augmented reality or a clever plot to get young people away from their screens and out

walking in the real world. One day, Google Glass technology may be available in contact lenses and become as useful and used as Google Maps are for navigation. (When was the last time you used a paper map?) In such a case, whose to say what's real or unreal in your world?

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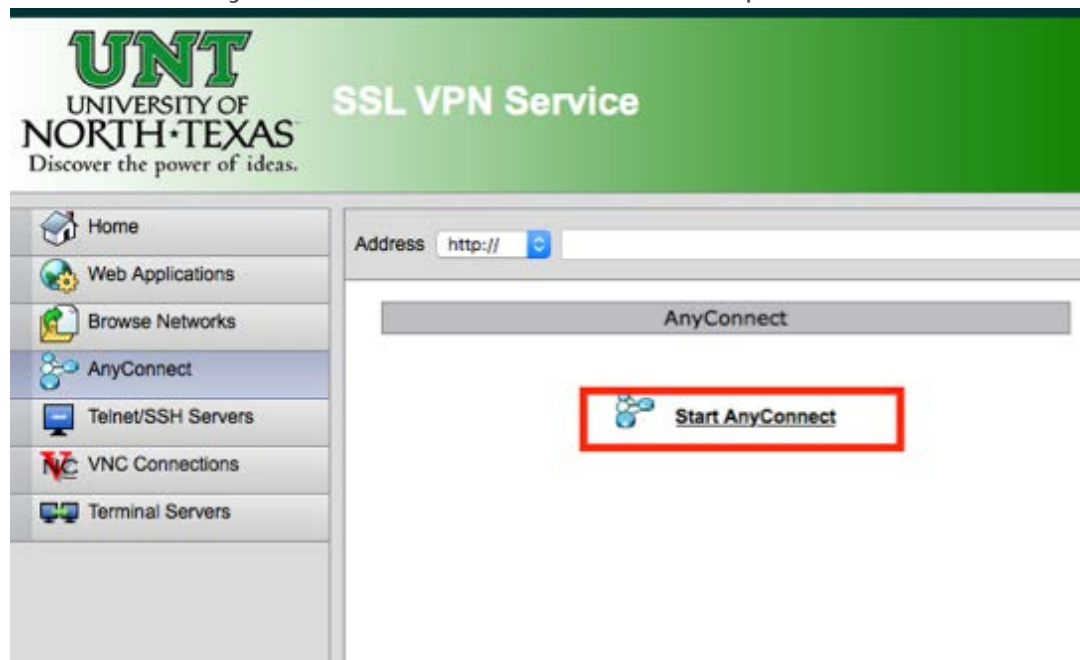
Help Desk FYI: Installing Cisco AnyConnect VPN Client

If you would like to use the University of North Texas virtual private network service, VPN, without signing in to a browser, you can install UNT's [Cisco AnyConnect Secure Mobility Client](#) on your machine.

1. Visit this website: <http://vpn.unt.edu>
2. Click "AnyConnect" on the left menu



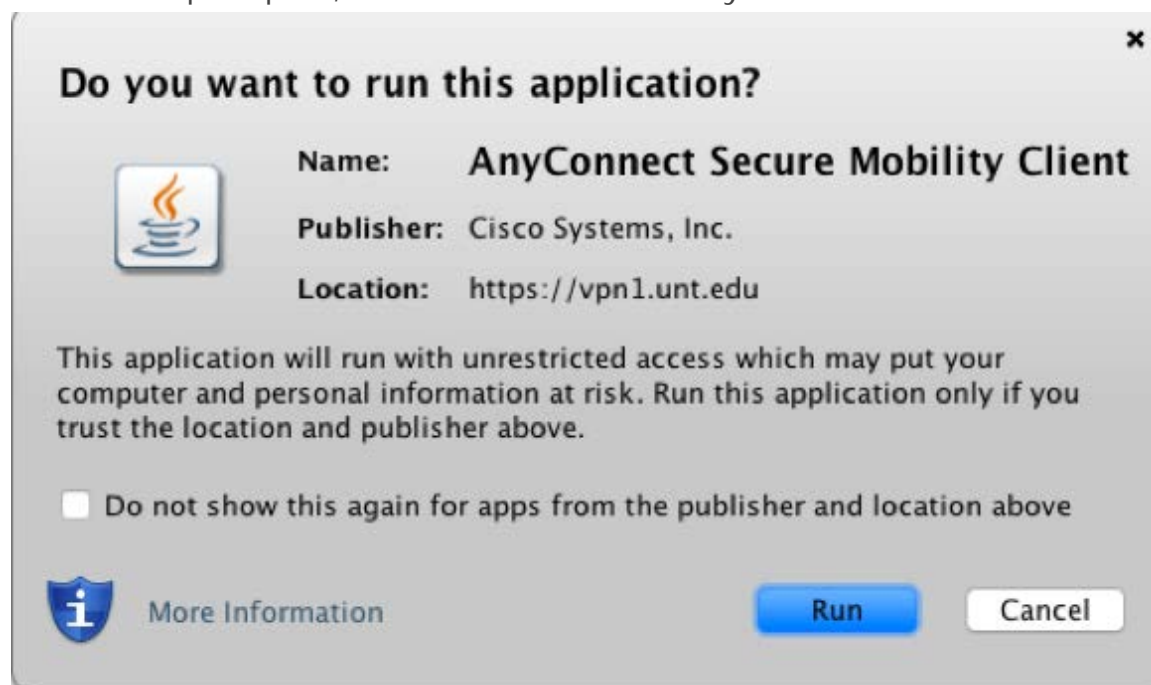
3. Click "Start AnyConnect" to start the installation process



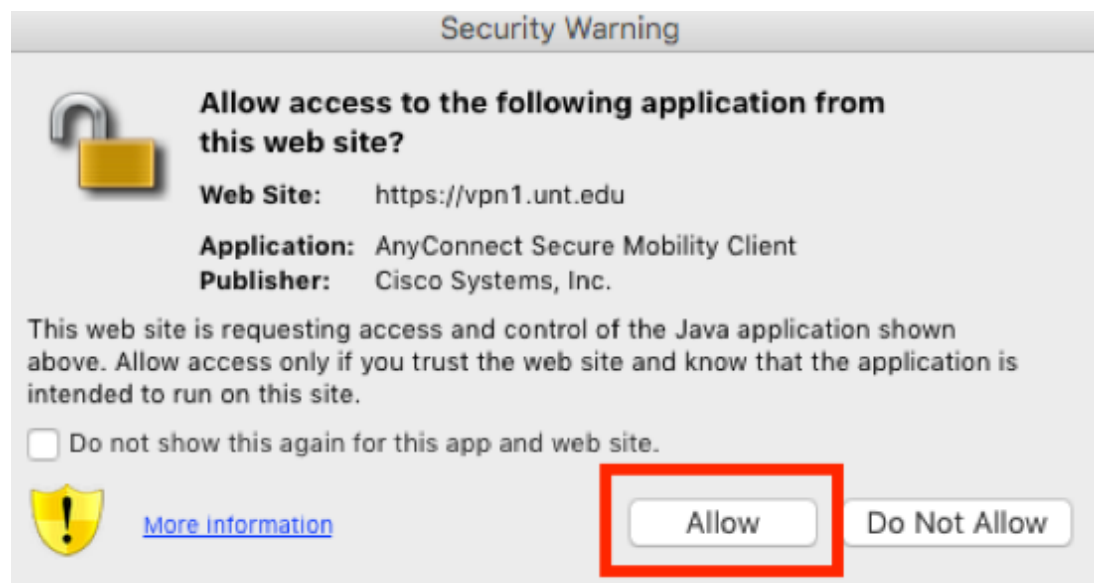
4. If your browser – Safari, Internet Explorer or Firefox – supports Java,
 4. a. Allow the Java plugin to run.



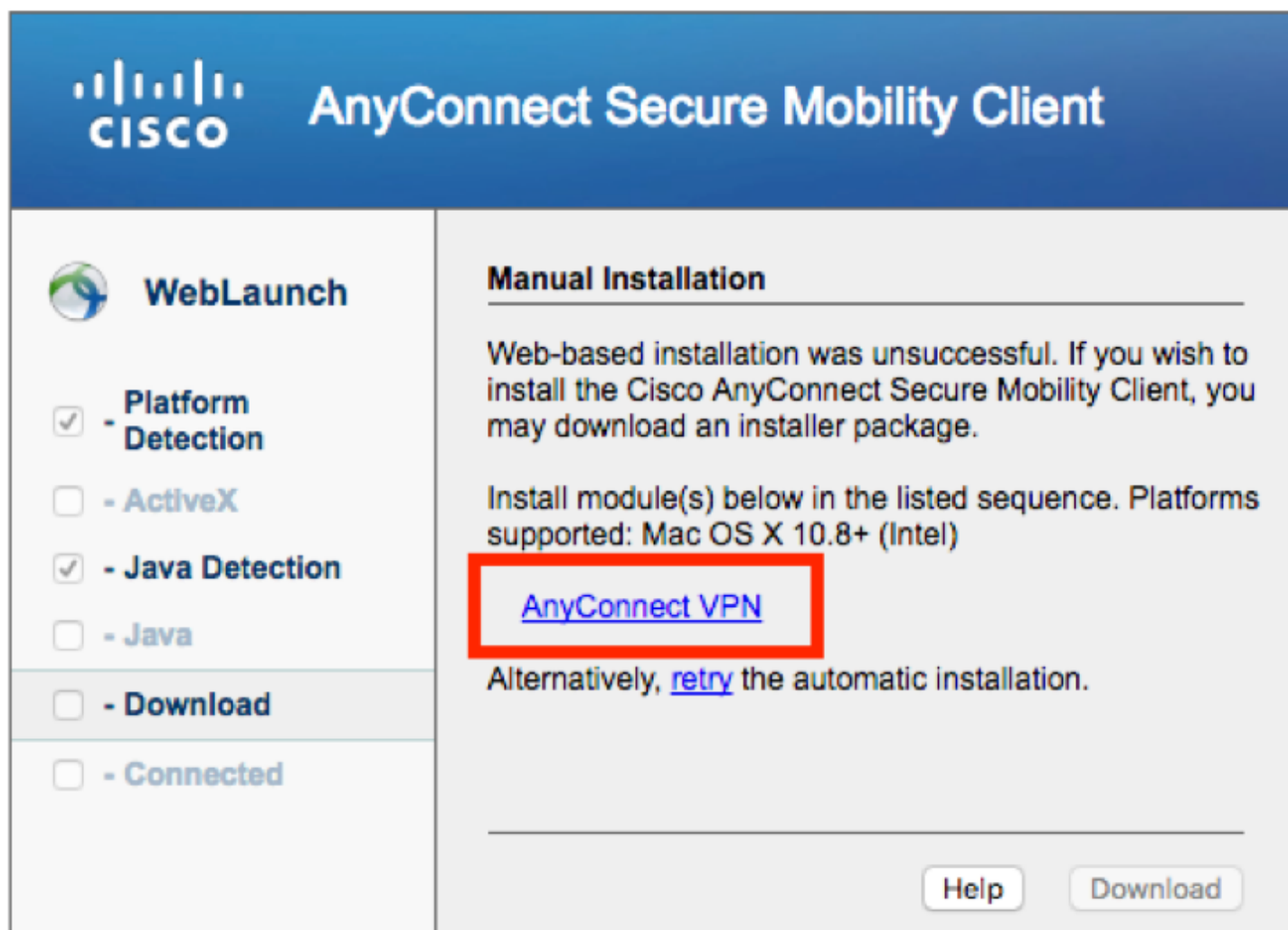
4. b. When prompted, click "Run" to run the AnyConnect Installation



4. c. Click on the word "Allow" to allow the installation.



5. If your browser does not support Java (Google Chrome, Microsoft Edge), you will see the following option. Click the AnyConnect VPN link to download the installer. You can run this file and follow the steps to install AnyConnect on your machine.



Please contact the Help Desk, should you have any questions.

940-565-2324 | [Online Help Desk](#) | helpdesk@unt.edu | Sage Hall, Room 130

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R&SS: Statistical Resources Update to Version 5



By [Jon Starkweather](#), consultant, [Research and Statistical Support](#), [Research IT Services](#)



People in the Zone

[Ransomware](#), A.

John

[Phishing](#), J.

McMullen

[ID Theft-Facebook](#).

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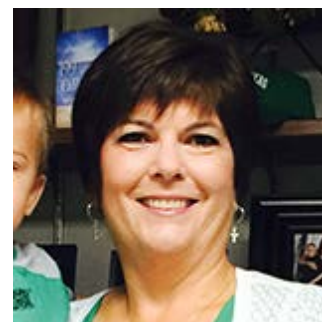
[Cartoon](#)

[UIT Reading](#)

[List](#)

This month's article originally appeared first in November of 2011, but periodically, it is necessary to update it with more current resources. The original article was motivated by a Research and Statistical Support Workshop for graduate students and contains much of the same content presented in the workshop: Statistical Resources. The following materials are, for the most part, freely available through the World Wide Web. The resources mentioned below fall, generally, into three categories; the resources we at R&SS maintain, the resources available to UNT community members, and resources available to the general public with access to the web.

NOTE: This article is particularly important this month, because [UIT](#) is



[Ginger Boone](#)



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migrating all webpages to
Drupal 7 – all of our URLs are
changing.

RSS Resources

The main [R&SS website](#) offers several resources, both specific resources aimed at particular software and more general resources, e.g., [Data Management Services](#). One of the key resources available to members of the UNT community is the opportunity to set up a [consulting](#) appointment with RSS staff. The [link](#) to contact R&SS staff for consultation is prominently displayed on each of the pages associated with R&SS. The link guides clients to a web interface, known as the Front Range system, which forwards the service request to R&SS staff, who then contact the requestor directly – generally through email. Please, read the [frequently asked questions](#) prior to submitting a Front Range request. It is also important to note that R&SS staff maintains a rather extensive collection of digital and paper copies of articles, book chapters and whole books. R&SS staff members often lend copies of these – in whole or part – to clients so clients can research various analytic or methodological concepts to their own satisfaction (and often the satisfaction of their colleagues, advisors, or committees, etc.).

A second frequently used resource R&SS offers consists of the [instructional](#) services for R&SS supported software. These were initially short courses offered in a classroom twice per semester; however, they have been migrated to the online format so that they may reach a wider audience and allow self-paced learning. These pages were designed to show how a particular software package can be used (e.g., [R](#), [SPSS](#), [SAS](#)), they are not designed to teach statistics or how to interpret statistics

[John Mayfield](#)



[Charlotte
Russell](#)

(although some interpretation is offered among the many pages). In fact, some of the software supported by R&SS is not directly related to statistics (e.g., [survey technology](#) such as [Zope and QSurvey](#)). On each of the R, SPSS, SAS short course pages you will also find links to resources specific to those software packages; from user manuals provided by the software producer (e.g., [SPSS Manuals](#), [CRAN Task Views](#)) to other users' user guides or websites (e.g. [Quick-R](#), [STAT-L](#)). There is even an R specific search engine available called, [RSeek](#).

Another resource R&SS offers is displayed right here; the contributions by R&SS staff to the [Benchmarks](#) online publication in the *R&SS Matters* column. Each article in the *R&SS Matters* column is linked to the previous article and an [index of R&SS Matters](#) articles is maintained on the R&SS website. The index is quite handy for finding particular topics (e.g., canonical correlation), rather than clicking back through the years of articles available through the column links.

R&SS offers a service for instructors at UNT with which we can provide a randomly sampled data set from a fictional population named [Examplonia](#). Examplonia is a fictional country which provides a meaningful context for statistical analysis examples. The population data for Examplonia was generated to provide a statistical population from which random samples could be drawn for the completion of example statistical analysis problems. The current version of the Examplonia population contains a variety of univariate, bivariate, and multivariate effects; including random effects based on hierarchical structure. If you are an instructor for a statistics course, you may be interested in obtaining some simulated data for your class (i.e. data for in-class demonstrations, homework assignments, etc.). Learn more about the population by visiting the [Examplonia](#) webpage.

R&SS has also implemented some new services

last year; all of which are focused on making software available to researchers through a web browser and relieving them of need to download and install software. Meaning, [Sage Mathematics](#) and [RStudio](#) along with the other services, can be accessed through a web browser. Sage Mathematics is mathematical computing software which can integrate the use of **R**. A brief introduction can be found at the Sage link above. RStudio is an integrated development environment for running the **R** statistical package. A brief introduction can be found [here](#). Another new service is called [Tiki Wiki](#); an open source, freely available, content management system (CMS). More information can be found [here](#). These servers/services are available to faculty and advanced graduate students; however those interested need to submit a request for an access account for each service. Once a user has setup an account, they can simply visit the servers using their preferred web browser and conduct analyses using the software without having to install the software on their local machines.

Online Statistical Textbooks

The [Rice Virtual Lab in Statistics](#) is a valuable site for anyone interested in learning or teaching some of the basics of traditional (i.e. frequentist) statistics. The site offers several [animations](#) for understanding concepts which are often difficult for newcomers to statistics, e.g., [sampling distribution characteristics](#) and the [Central Limit Theorem](#). The Rice University Virtual Lab in Statistics also offers an online – free; no registration required – introductory statistics textbook. The textbook is called [HyperStat](#) and contains chapters which cover the usual contents such as describing univariate and bivariate data, elementary probability, the normal distribution, point estimation, interval estimation, Null Hypothesis testing, statistical power, t-tests, Analysis of Variance (ANOVA), prediction, chi-square, non-parametric tests, and effect size estimates.

Another online repository of statistical resources is the site maintained by Michael Friendly at York University. The [site](#) offers a variety of links to resources for a variety of software, tutorials for specific analyses, and sections of links for statistical societies, associations, and academic departments; as well as links to support more general computing resources (e.g., using Unix). A similar [site](#) listing various statistical resources on the web is maintained by Clay Helberg.

[Statsoft](#), the company behind the statistical software [Statistica](#), also offers web surfers a textbook covering a variety of statistical topics. The Statsoft site covers topics ranging from [elementary concepts](#), [basic statistics](#), [ANOVA/MANOVA](#) to multivariate topics such as [principle components and factor analysis](#), [multidimensional scaling](#), and [structural equation modeling](#). Unlike Statnotes, mentioned above, the Statsoft site does not offer software output or interpretation (although graphs and tables are often used). However, one handy feature of the Statsoft site is the interactive glossary; each hyperlinked word sends the users to the definition/entry for that word in the glossary. The Statsoft textbook is also [available](#) in printed form for \$80 plus shipping.

Miscellaneous Other Resources

Another resource option for members of the UNT community, which is often overlooked, is the [UNT library system](#). The library's [general catalog](#) contains a monumental collection of resources, from textbooks being used in current courses to books which focus on the statistical analyses used in particular fields and authoritative books devoted to specific types of analysis (e.g., searching "logistic regression" yielded 66 returns). Furthermore, the electronic resources offer access to thousands of periodicals (i.e. journals) from a variety of databases (e.g. EBSCOHost, Medline, ERIC, LexisNexis, & JSTOR). One of the most frequently used databases by

R&SS staff is the JSTOR database, which contains many of the most prominent methodological and statistical journals – with almost all articles available (through the UNT portal) in full text (i.e. Adobe.pdf format). Another commonly used resource is the [Journal of Statistical Software](#), which contains articles on a variety of statistical computing applications/software, as well as articles covering statistical methods. One more often consulted resource is the *little green books* which are actually a series published by [Sage](#). The [Quantitative Applications in the Social Sciences](#) series are a collection of thin, soft covered, books; each dealing with a specific research or statistical topic. The UNT library carries approximately 145 of the series' editions and the R&SS staff has collected most of the series as well. There are approximately 170 books in the series and a typical researcher would be hard pressed not to find something of value among them. Of course, there are more general resources, such as [Google](#), [Scholarpedia](#), [Wikipedia](#), and even [Youtube](#); all of which can be useful.

Until next time, remember, GIYF – Google is your friend.

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Staff Activities, July-August 2016



People in the Zone

[Ransomware](#), [A Hail and Farewell](#)

John



[Ginger Boone](#)

[Phishing](#), J. No changes

McMullen

[ID Theft-](#)

[Facebook](#).

T. Bacon

Professional Development

August

Carrie Stoeckert: [Texas Association of State Systems for Computing and Communications](#) 2016 Annual Conference, Galveston, Texas

[Network](#)

[Connection](#)

[Help Desk FYI](#)

[Research](#)

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July

Elizabeth Hinkle-Turner: [Governor's Center for Management Development](#), LBJ School of Public Affairs, The University of Texas at Austin

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[John Mayfield](#)

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Digital Humor – Today's Cartoon



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Cloud Security Explained



[People in the Zone](#)



[Ginger Boone](#)



[John Mayfield](#)

Reading List – August 2016



Rio Olympics: [Stunning underwater Olympics shots are now taken by robots](#)

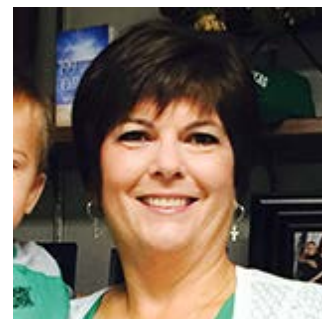


People in the Zone

[Ransomware](#), A.

John

Vintage: The Martian Chronicles, written by Ray Bradbury – [Book](#), 1950, [Movie](#), 1980, starring Rock Hudson



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[Phishing](#), J.

McMullen

[ID Theft-](#)

[iPhone 7 Specs Point to Virtual Reality](#)

[Facebook](#).

[Identity Theft and the Internal Revenue Service](#)

T. Bacon

[Network](#)

USA Today: [How to Avoid Identity Theft in 2016](#)

[Connection](#)

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New App: [Pet Chatz, by Anser Innovation, LLC](#), greet and treat your pet from afar.

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[John Mayfield](#)

Phishing Attempts Change UNT Direct Deposit Process



From Bob Brown, vice president for [Finance and Administration](#)



People in the Zone

[Ransomware](#), A.

John

Attention, UNT Employees

[Phishing](#), J.

McMullen

If you are changing your direct deposit bank information or setting it up for the first time, there have been some recent process changes that will affect you.

[ID Theft-Facebook](#).

T. Bacon

[Network Connection](#)

Due to a higher level of phishing emails sent to UNT email accounts, UNT System IT and Payroll teams have turned off the self-service option for direct deposit in the EIS portal, [my.unt.edu](#), [my.untdallas.edu](#), [my.hsc.unt.edu](#) and [my.untsystem.edu](#). This means new or existing employees will not be able to make any changes online regarding direct deposit while the teams actively work on options to address the potential issues.

[Help Desk FYI](#)

[Research Matters I](#)

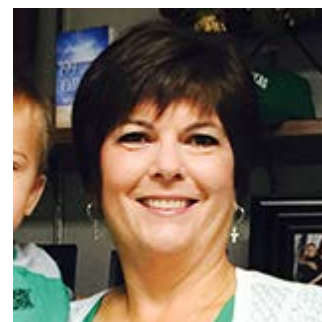
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However, for employee protection, System IT and Payroll have devised a new direct-deposit form and process for employees to create or update their direct-deposit bank-



[Ginger Boone](#)



account information. The new temporary process is as follows.

[John Mayfield](#)

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1. New or existing employees who log into the direct deposit page in the EIS portal will be greeted with a message informing them that **the employee online self-service is disabled temporarily while enhancements to this service are being made.**

The message will contain a link to the new direct deposit portable document file, PDF, of a form that should be completed. The form will provide instructions on how to securely send it back to Payroll once complete.

2. Once Payroll receives the completed form, a representative will call the employee within 24 to 48 hours to verify the accuracy of the new direct-deposit bank information.

3. Payroll will then create or update the employee's direct-deposit bank account information within the EIS portal and promptly send an email informing the employee that the direct-deposit bank information has been properly set up.

4. As is standard, an auto generated email notice from EIS also will be sent to the employee alerting them that a change has been made to their direct deposit bank account information.

If you have any questions, please contact a Payroll or BSC Client Services team member at 940-369-5500 or toll free at 855-868-4357.



[Charlotte Russell](#)

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Hotspot – Ginger Boone

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As various UNT information technology groups coalesced in 2010 to form Administrative Information Technology Services, Facilities and Risk Management were two areas requiring IT support that gave "a great deal of pause" to **Abraham John**, senior director, UNT AITS, he said. That was six years ago when the areas were supported by six servers; they are up to 31 now.

"When Ginger agreed to tackle that portion of AITS, I stopped worrying about the "what ifs," because I knew she would take care of the areas very well," said John. **Ginger Boone**, IT manager, along with **Alan Garrison**, IT specialist, and **Jason McMullen**, AITS manager for Facilities, Auxiliary Services and Athletics, (and Boone's supervisor), "brought that part of our support spectrum away from the brink and have it on firm footing. If I ever needed to jump into darkness, I would want Ginger and folks, such as Alan, Jason and others of my AITS team, covering my six," said John.



People in the
Zone



[Ginger Boone](#)



[John Mayfield](#)

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After 25 years at UNT, Boone recalls that she started in the mainframe world when local area networks evolved. She started at UNT as the first full-time network manager for the Office of the Registrar on the first floor of the Hurley Administration Building after 11 years of experience at Weber Aircraft, Inc., in Gainesville, Texas. Boone might have pursued a teaching profession since she holds a Bachelor of Science in Home Economics Education from UNT, but instead learned information technology through on-the-job training and has worked in the UNT Union, the School of Library and Information Sciences, Student Development and Enrollment Management.

"Never did I dream my career would be in IT. I am on the FASA Team, and I would not trade my job for anything; I truly believe my path was God driven," she said. The team is responsible for building, securing and maintaining the computer systems with one full-time IT specialist,

Garrison, and three student technicians who are "awesome," Boone said.

Garrison is working on the campuswide security-camera project and was instrumental in building the technology in the new Emergency Operations Center, a division of Risk Management, Boone said. With so much to support, we have to rely on our student techs. When they leave, they have a very broad knowledge of technology.

Boone said her favorite things about working at UNT include being in the higher education environment and knowing the people she supports, she said.

"My work can be fun and exciting, but it also can be very stressful," Boone said.

So, where does Boone turn to relieve work-related stress? In addition to working out, Boone says her family is her greatest reward – two married sons, **Brandon** and **Bradley**, both of whom are firefighters and paramedics for the City of Denton. She loves her daughters-in-law, whom Boone calls "keepers." **Lindsey**, the principal at a local elementary school, and **Megan**, a third-grade teacher, are "her girls," and she spoils them when she can, because, with two sons and four grandsons, the girls are outnumbered. Boone's grandchildren range in age from two to 15; the youngest grandson, **Cash**, is pictured on a visit to Mean Green country with his grandmother.

"We are very close and enjoy family time. I'm a country girl at heart, living on the family farm where we grow crops and raise cattle. I enjoy working in my yard and cooking for family gatherings. I also enjoy going to my grandsons' sporting events, and watching my son and daughter-in-law compete in roping and barrel racing.

"I never got into gaming," said Boone, but her favorite

app on her phone is [MyFitnessPal](#), a free online calorie counter, diet planner and activity tracker. "As long as I log my food, it calls me out when I eat too much!"

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Hotspot – John Mayfield

Who do you call at UNT when Drupal has you in knots? **John Mayfield**, the on-campus Sensei Drupal ninja, that's who!

Mayfield began working with Drupal in 2010, when it became UNT's content management software. It has great standard features, such as easy content authoring, reliable performance, and excellent security, and it is used worldwide to make about [a million websites and applications](#). However, it is also well known for having a [steep learning curve](#); it takes time, effort and tenacity to learn it – and longer to be good at it.



I enjoy working with Drupal, Mayfield said, and I take a lot of joy in helping other people with it. What sets it apart is its flexibility; modularity is one of its core principles, but there is a lot to learn. Its tools help you build the versatile, structured content that dynamic web experiences need. That is why I created the Drupal Groupal, a networking group for Drupal administrators at UNT. I know that the contacts and friends I have made through the DG have made my job a lot easier and I hope I have helped a few people along the way.

A Drupal website is extremely dynamic in nature and can be used for a variety of applications that will assist you in connecting to your target audience and help you sell your products on the web. Drupal is one of the most



efficient tools that is available for online content management. Due to its flexible infrastructure and rapid loading, Drupal is a preferred choice from among web development platforms.

I started at UNT in July of 1996 working in Facilities, in the Moving and Hauling crew, but I had always had enjoyed working with computers in my spare time. Eventually, I bought a computer and a software called Microsoft Office FrontPage," Mayfield said. FrontPage is a discontinued WYSIWYG HTML editor and website administration tool from Microsoft for the Microsoft Windows line of operating systems. It was branded as part of the Microsoft Office suite from 1997 to 2003.

"I started messing around a little bit on my own time, teaching myself HTML and web design, just for fun. This was still the late 1990s, very early in the grand scheme of websites as we know them today. I was working in the Surplus Warehouse for Purchasing and Payment Services Department, when they decided to make a website for the surplus auctions, and I volunteered to do it, even though I was mostly clueless on web design/development. With the help of a lot of great – and very patient people – in the IT community at UNT, I continued to work on and improve my abilities and knowledge." Mayfield said, crediting URCM's **Kenn Moffitt**, senior director, communication systems and digital marketing, and **Charity Beck**, director, brand marketing and technology.

Drupal is really a terrific content management system, no matter how frustrating it is in the beginning. The key to web design is to always stay flexible. Technology, software, and user experience and preference are constantly changing. Staying static is a recipe for failure. ~Drupal Groupal member



"In 2008, I applied for and got the job I have now, web developer for UNT-International. Working here, I have had the great privilege of working with many profoundly talented folks: **Randy Evans, Dani Nicholson, Mike Buras, Trisha Spence, Greg Altuna, Laura Garrison, and Ursula Williams**, just to name a few," said Mayfield. "They have helped and inspired me to continue to grow as a web developer, and encouraged me to never settle, and to keep striving to do the best work and have the best website possible."



"I have been at UNT for 20 years now, and it's hard to imagine working anywhere else. The folks I have met and collaborated here are among the best friends I have," said Mayfield.

Mayfield is co-parent of a 13-year-old son, who he says "keeps me on my toes and we have a lot of fun together. We enjoy cooking and playing games together. He is an aspiring actor that has just gone through the DCTA drama camp this summer."

Your favorite app in your smartphone

Uber. It's completely genius

Mac or PC or both

PC. I've never had a mac computer.

Have you played Pokemon Go?

No, but my son is obsessed with it.

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Teach North Texas Presentations Hinge on Swivl Technology

Millions of people make presentations daily – how do yours compete?

The power and reach of a presentation can mean stardom or obscurity for an aspiring singer, a politician – or even a classroom teacher.

Why is a good presentation even a big deal; can it really kill a good idea? Can good presentation skills help engage and retain students from one semester to the next?

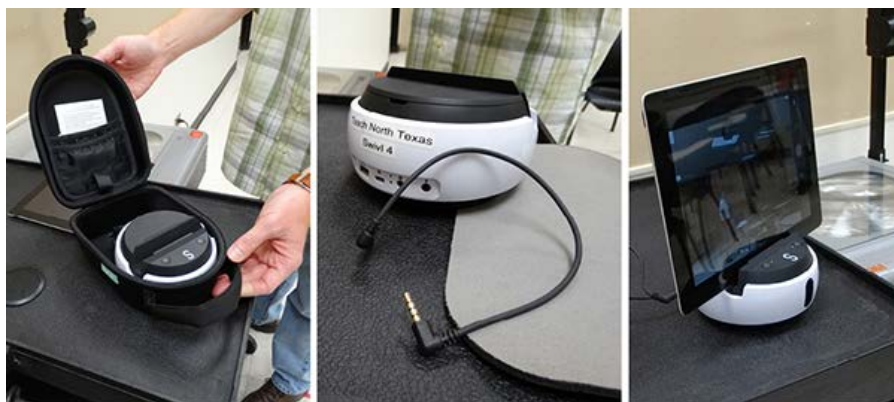
[Teach North Texas](#),
under the co-direction



of **Pam Harrell** and **Ruthanne “Rudi” Thompson** have adopted **Swivl™** technology to help budding and aspiring teachers answer those questions. The TNT program prepares and supports secondary teachers of mathematics and science, addresses the national and regional need for excellence and innovation in teaching science and technology. With 52 students in 2008, TNT now has more than 300 students in the program that prepares teachers of science, technology, engineering and mathematics, STEM, subjects to enter the labor force in local school districts.

TNT uses Swivl technology by providing student-teachers the hardware and software to capture each student’s unique teaching experience. Students use it in practice sessions and the classroom. The recording allows the assigned master teacher to analyze the student teacher’s techniques and provide valuable feedback. Approximately 10 Swivl units are in use with TNT’s mentoring program that pairs student teachers with compatible mentor teachers from local school districts.

According to Dr. Thompson, Swivl is a tool that acts as a private camera operator within the classroom. With headquarters in San Carlos, Calif., the Swivl device is made by Satarii, a small privately-held educational technology company that makes easy-to-use, inexpensive solutions that help teachers and students use video to improve themselves, their presentations and their teaching skills. The device, which costs about \$500 per unit with an enhanced audio bundle, is used for presentations, time-lapses, videos, or just about anything else that you want to record. The majority of people who would have a use for Swivl are school administrators, instructors, students, and in business. What makes a truly impactful flipped, online or blended course are the same things that make an impactful face-to-face course: the content, the dialogue and the connections between members of the class – with a robot there to record it.



The Swivl system is compatible with Android and iOS devices, and comes with a portfolio of apps and supporting accessories including a free video assessment and a reflection app for students along with a video-coaching and collaboration platform for

teachers and students to use.

Just dock your iPad, iPhone, Android tablet or phone into the Swivl base; it has a sensor on the front of the base to pick up a signal from a pendant that you wear around your neck or carry. The device detects the signal and swivels to cover your moves. A wireless microphone picks up the sound as you present. You can record your presentation on your device by using the Swivl Cloud or Swivl Capture app. Video blogs, Vlogs, are one way in which groups can get their video feeds out. Swivl Cloud software makes the recorded data available to anyone online.

Dr. Thompson answers a few questions with her answers captured by the Swivl and stored in the cloud for viewing the same way a student, student-teacher or another user would access a recording. **Click on a link below to see the Swivl-produced videos.**

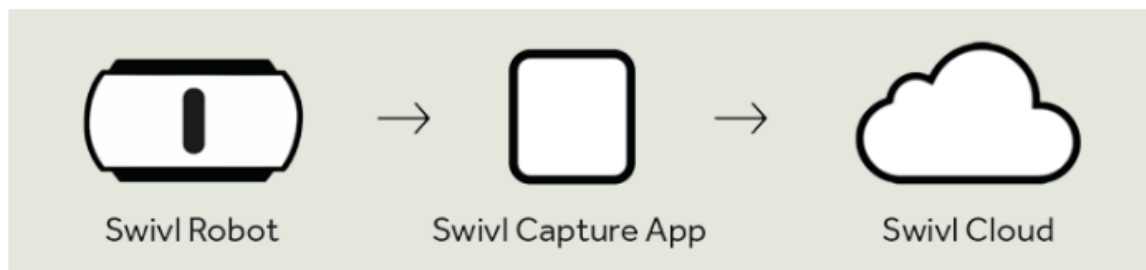
[How do you use Swivl?](#)

[How does TNT benefit from using Swivl?](#)

[Are there any additional applications of Swivl?](#)

"We are using Swivl to give our students an opportunity to build on reflective teaching practices," said Dr. Thompson. It's useful to realize how many times you say "um" in a presentation, touch your hair or know when you have omitted an important step in a rubric. Swivl allows student-teachers to work on voice level, body language, and all those different things required in the classroom to challenge students and allow the lessons to flow well, she said. Under the guidance of mentor teachers, who are experienced elementary, middle school, and high school teachers, our students use Swivl during their field-based experiences. Mentor teachers open their classrooms to a pair of TNT students, offering guidance and support as they begin to learn about classroom teaching.

Indeed,
the most



captivating communicators use meaningful data, examples and supporting points. They have a unifying message that their audience would remember without the benefit of a transcript or notes. With a Swivl, teachers can analyze how the lesson or information was presented and how well the presenter responded to the students. Even watching the body language of the presenter can be helpful in perfecting a presentation. Although each TNT student completing a practice teaching session is monitored by the classroom teacher, the robot does allow monitoring of a presentation without an evaluator in the room to

distract the audience or presenter.

Swivl™: But we're about more than just video. We believe classroom technology needs to follow the same transformation teaching has undergone. From sage on the stage to guide on the side. Technology needs to get less immersive. It needs to focus on helping free up teachers to be more effective at personalization and reinforce the social bonds that make up our learning environments.



So, whether you are an employee standing in front of coworkers, at a conference giving a presentation or in a COMM 2040 Public Speaking course, Swivl might be the answer to burying your butterflies. Planning, preparation and practice are key to an effective presentation for a new or experience presenter and the Swivl robot is making it easier to build confidence, Thompson said.

Recorded teacher presentations may one day replace or at least supplement the evaluation process of experienced teachers too, said Dr. Thompson. With many of teachers out in the field, master teachers, deans or chairs of any department now can view a presentation, gather information without hours of driving to and from dozens of teaching locations and later view the video at their convenience.

TNT is a replication of the nationally recognized [UTeach program at the University of Texas at Austin](#). The program emphasizes early and ongoing field-based experiences and fulfills all requirements for certification in Texas.

Dr. Thompson is a science education professor at UNT and involved in many innovative projects such as National Science Foundation Research Experience for Teachers involving wireless sensor networks, State Energy Conservation Office involving SMART Schools, EMERGE, and most notably, she serves as the director of the City of Dallas' Environmental Education Initiative. She teaches Biology 1028: Biology for Educators and a graduate-level course, Scientific Teaching in the Classroom.

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Looking ahead toward the 2016 EDUCAUSE annual conference, Oct. 25-28, 2016 in Anaheim, Calif., the [top 10 information technology issues](#) in higher education warrant consideration. The number one issue is information security and that brings **Charlotte Russell** into the Hotspot. Russell is the [chief information security officer and senior director of management and risk services for the UNT System](#).

[Russell's responsibilities include the following areas.](#)

Management of enterprise IT policy and strategic planning,
 Risk assessment,
 Information security management programs,
 Business continuity and disaster recovery planning,
 Vendor and contract management services,



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Russell](#)

Information

Security: Developing a holistic, agile approach to information security to create a secure network, develop security policies, and reduce institutional exposure to information security threats.

~EDUCAUSE

It is no surprise that cyberattacks are increasing, but the speed at which this is happening is breathtaking. As the threats continue to mount, understanding and managing cybersecurity risks have become top of mind for leaders in business and government. Increasingly, they are adopting innovative technologies, such as cloud-enabled cybersecurity, Big Data analytics and advanced authentication to reduce cyber-risks and improve cybersecurity programs. View the key themes of [The Global State of Information Security® Survey 2016](#) from [PricewaterhouseCoopers](#), a professional network company with headquarters in London delivering assurance, advisory and tax services in more than 775 cities across 150 countries.

Remember: A [free download of McAfee VirusScan Enterprise 8.8i software](#) is available to students and employees with a valid Enterprise User

Identification, EUID, and password.



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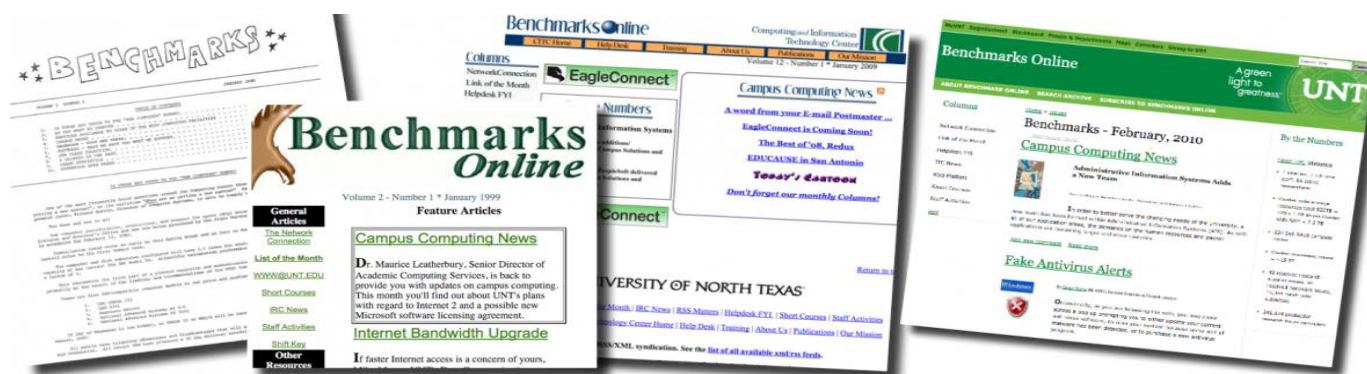


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