

Research Matters

October 2016

Campus Computing News: What's in an Idea?

By Philip Baczewski, senior director, University IT

Introducing the UNT IT Idea Center

We live in an age of information technology. Over the last 30 years, there has been a continuing explosion of new technologies and services that has changed the world around us. Our home, commercial and university activities have all been affected and the pace of change seems to just get faster. The array of IT goods and services keeps expanding, providing plenty of potential applications to enhance, improve or even revolutionize how we pursue our



business or instructional activities. Such a wealth of possibilities yields an abundance of ideas for use of IT applications and services within all aspects of

a university environment. But good ideas alone don't drive change and innovation within an organization. **Read more.**

Campus Computing News: Lynda.com Opens With a Strong Start

LyndaCampus opened Sept. 1, and in its first week was off to a strong start as hundreds of UNT students and employees explored online courses in software, creative and business skills to achieve personal and professional goals. As of Sept. 16, more than 1,200 Lynda.com visitors from UNT viewed 368 hours of 5,563 videos and 2,954 page views were counted on the UIT Lynda.com information page, according to Google Analytics. Read more.



Network Connection: The Internet as We Know IT

By Philip Baczewski, senior director, University IT



Recent news reports indicate that the United States may have just given away the internet. Before you become too alarmed, be aware that the U.S. has never actually "owned" the internet so there's nothing to be given away. The internet is an interconnection of networks and individual devices that exists without central control, with one exception. Someone's got to keep track of all of those addresses used to connect to various internet sites. Read

more.

Camera System Enhances Security in Sage Hall Computer-

Based Testing Center



By Elizabeth Hinkle-Turner, director,
Instructional IT Services, University IT
Since its opening in Fall 2012, the Sage Hall
Computer-Based Testing Center has hosted
over 67,000 visits by students taking online
exams and participating in online workshops
and other online services. This support of
computerized testing for distance, blended and



face-to-face classes includes providing as secure an environment as possible to promote academic integrity and student success. **Read more**.

People in the Zone



Our focus this month is on three more stellar nominees who come from the College of Engineering, and the departments of university and administrative information technology. Click on each nominee's name to read more. Also, be sure to read this month's article about **Ram Dantu**, professor of computer science, who was named by D Magazine for a regional award, and **Mary Jones**, department chair and professor of information systems, recognized at the Women in Technology Awards program by Dallas Business Journal.

Jim Byford, IT manager, College of Engineering, Discovery Park

Jacob Flores, manager for host computing and software license management, UIT Christopher Johnson, IT manager, AITS



High-Performance Computing Adds 3-D Printing Service for Researchers

By **Garrett Crowe**, student assistant, High-Performance Computing Services, UIT

The new Flashforge Finder 3-D Printer has found a place in the office of High-Performance Computing Services in the General Academic Building. It is able to take a 3-D rendered object from a computer design, and reproduce the design into a three-dimensional object. **Read more**.

Learn to Code, Print a 3-D File, Make a Movie and Lots More in The Factory at Discovery Park

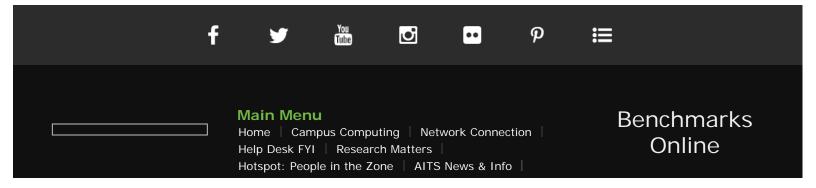


UNT landmarks newcomers can identify at the university.

But do you know about **The Factory**, its lineup of training classes, maker-technicians to help you and that it is open to UNT employees and students?

The UNT Libraries' makerspace, The Factory, located in Room 135 of the Discovery Park Library, promotes the cooperative and creative use of technology. The space provides the UNT community with access to equipment, software and training that promotes innovative, crossdisciplinary learning. Learn more about The Factory here; for upcoming workshops, click here.

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Student Tech Tour

High-Performance Computing Services

Sage Hall Computer Testing Center



The UIT Department provides effective computing and information technology services to students, faculty and staff members. **Learn more about us!** UIT Brochure, (.pdf, 285KB)

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Students, faculty, staff, alumni and visitors: please check the links in the main menu and in the Quick Links to get

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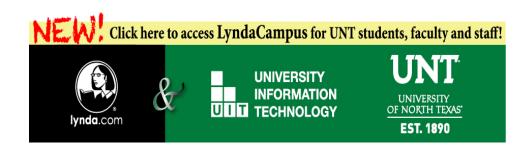
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Email: helpdesk@unt.edu

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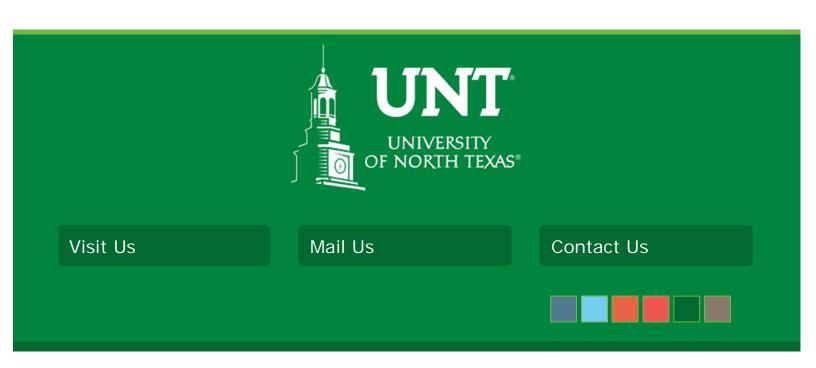


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October: What's in an Idea? and LyndaCampus Opens with a Strong Start

August: Phishing Attempts Change UNT Direct Deposit Process

June: Beyond Academic Advising: UNT Expands Student Success Technology

Salesforce CRM

April: <u>UNT Participates in National Technology Survey</u>

February: Instructional IT Adds Services

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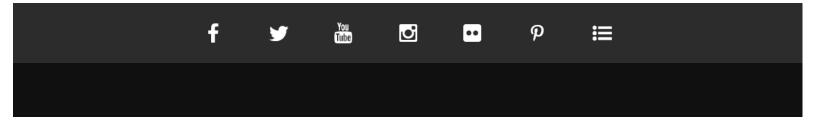
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Network Connection Archives, 2016

Articles by Philip Baczewski, senior director, University Information Technology

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October: <u>The Internet as We Know IT</u>
August: <u>Life Imitates Art Imitates Life</u>
June: <u>The Once and Proper Internet</u>
April: <u>How Smart is Your Phone?</u>

February: What is that Annoying Tweeting?

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Help Desk FYI

<u>Help Desk News and Information</u> – news published outside of the Benchmarks Online publication schedule.

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October: Setting Inbox Rules in EagleConnect Email System

August: Installing Cisco AnyConnect VPN

June: Use the Clutter Feature to Sort Email in Microsoft Outlook

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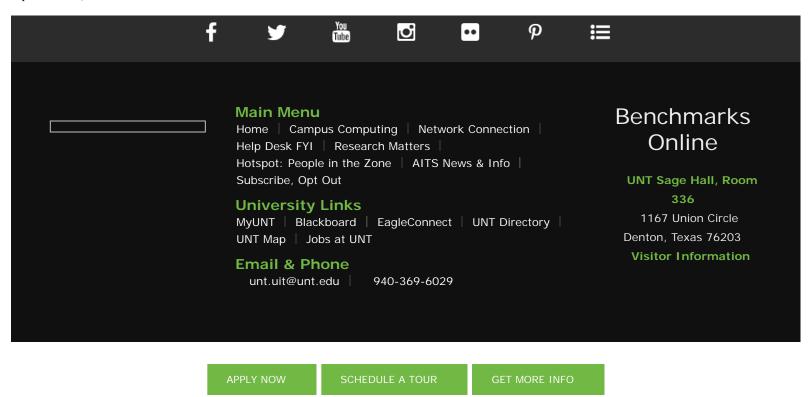
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October

A new recommended way of dealing with multiple missing values: Using missForest for all your imputation needs. Originally published July 2014, by Jonathan Starkweather, Ph.D.

August

<u>Statistical Resources, Update, Version 5</u> by Jonathan Starkweather, Ph.D. <u>The Torpedo that Sank Least Squares: The Data Strike Back, Part 1</u> by Richard Herrington, Ph.D.

June

Explicit Bayes: Working Concrete Examples to Introduce the Bayesian Perspective by Jonathan Starkweather, Ph.D.

April

<u>Plotting Geographical Data: A Brief Introduction</u> by Jonathan Starkweather, Ph.D.

February

Statistical Resources, Update, Version 4 by Jonathan Starkweather, Ph.D.

R&SS

Previous articles appearing in Benchmarks Online written by **Research and**

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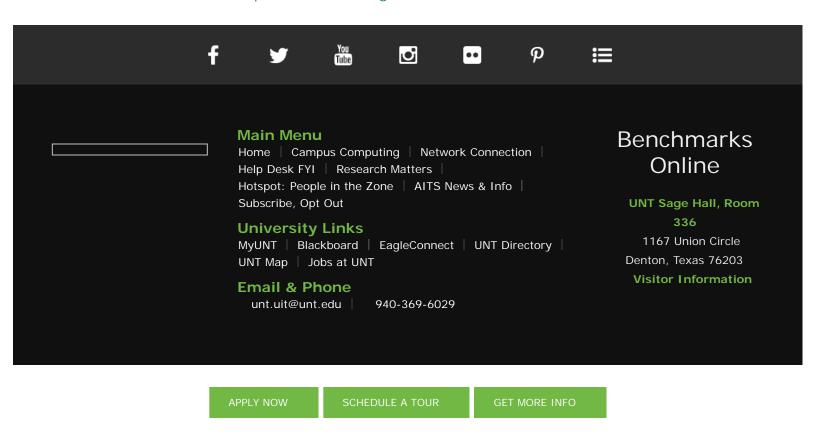
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<u>Statistical Support Services</u> consultants are available by clicking <u>here</u>. Contact Information: 940-565-4066 | Sage Hall, Room 336 | <u>R&SS</u> <u>Brochure</u>, (.pdf, 299KB)

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Consultants: Richard Herrington, Ph.D., and Jonathan Starkweather, Ph.D.

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Hotspot: People in the Zone

Welcome to Hotspot, a small place online where UNT computing and information technology professionals and associated staff can rave about themselves, their geekiness and contributions to transforming UNT into a nationally prominent university. This is the good news area – the place to learn about colleagues in action, their roles and how members of the IT community are raising the benchmarks of excellence! Email a nomination with a brag sheet and photos any time to <u>Benchmarks Hotspot</u>.

2016

October

<u>Jim Byford</u>, IT manager, College of Engineering <u>Jacob Flores</u>, IT manager, IT User Services, UIT <u>Christopher Johnson</u>, IT manager, AITS

August

<u>Ginger Boone</u>, IT manager, Facilities Services

<u>John Mayfield</u>, web developer, PACS

<u>Charlotte Russell</u>, chief information security officer, UNT System

June

<u>Jeff Anderson</u>, systems administrator, UNT System <u>Jennifer Lee</u>, IT manager, Student Success Services, UIT <u>Jennifer Spillman</u>, IT programmer/analyst, UIT

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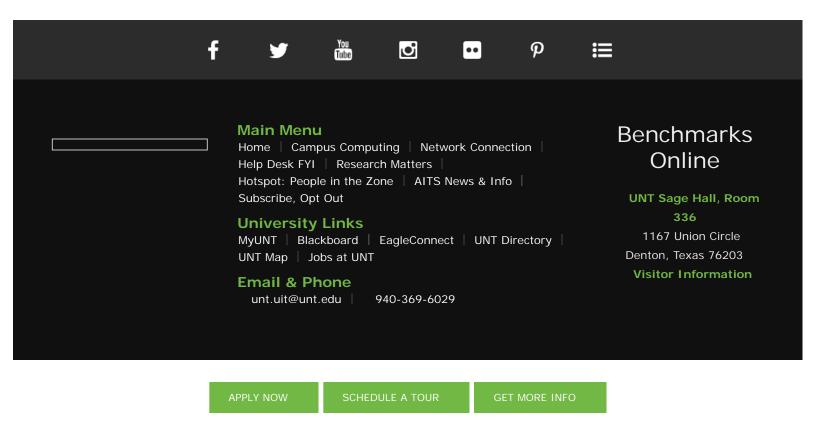
<u>JoAnn Luksich</u>, IT manager, Data Management Services, Instructional IT Services, UIT

<u>Charles Peterson</u>, IT manager, High-Performance Computing, UIT <u>Chris Stoermer</u>, IT manager, AITS

February

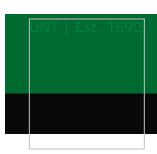
<u>Elizabeth Hinkle-Turner</u>, director, Instructional IT Service, UIT <u>Jacob King</u>, web developer, URCM <u>Brian Kucharski</u>, web developer, URCM <u>Anthony "Tony" Moreno</u>, IT specialist, AITS

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AITS News & Information

Articles from Administrative Information Technology Services Newsletter Abraham John, senior director, AITS

Next Edition: December

August 2016

Did you know that optical media, such as DVDs, Blu-Ray Discs and CDs, store information in binary form and are referred to as pits and lands?

Excel 2016 for Mac Offers Genuine Business

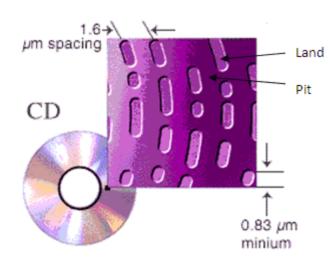
Functionality by Christopher Johnson, IT manager, AITS

ID Theft on Facebook by

Troy Bacon, IT manager, AITS

Managing the Influx of

Email by Aaron Powers, IT manager, AITS



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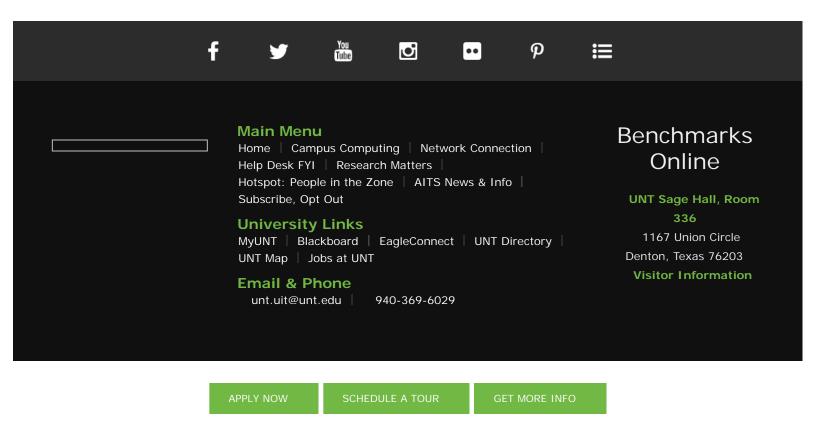
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Staff Activities

Phishing - Don't Click on That! by Jason McMullen, IT manager, AITS

Ransomware - A Rising Threat by Abraham John, seniior director, AITS

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<u>Philip Baczewski</u>, senior director, University Information Technology Department

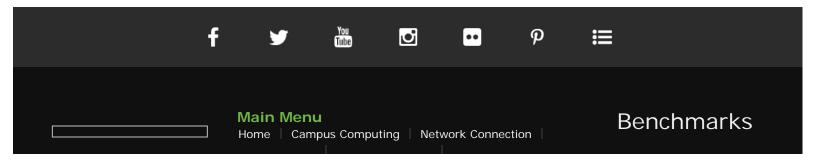
Monica Scott-Taliaferro, editor, UIT marketing

Carrie Stoeckert, assistant director, planning, budget and communications

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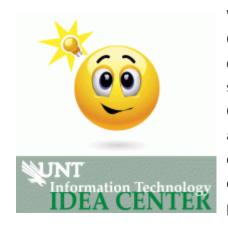
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CAMPUS COMPUTING: WHAT'S IN AN IDEA?

Campus Computing: What's in an Idea?

By Philip Baczewski, senior director, University IT

Introducing the UNT IT Idea Center



We live in an age of information technology. Over the last 30 years, there has been a continuing explosion of new technologies and services that has changed the world around us. Our home, commercial, and university activities have all been affected and the pace of change seems to just get faster. The array of IT goods and services keeps expanding, providing plenty of potential applications to enhance, improve, or even revolutionize how

we pursue our business or instructional activities. Such a wealth of possibilities yields an abundance of ideas for use of IT applications and services within all aspects of a university environment. But good ideas alone don't drive change and innovation within an organization.

The life of an Idea

Ideas and their products have a life cycle. The first stage is the conception of the idea -- in other words, the moment when the metaphorical lightbulb goes on and spurs us to do something different and/or innovative. If we want this

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idea to go beyond our personal scope and work within a group or organization, then the next step is development and testing of the resulting product. For large-scale deployments, a pilot phase is often used to establish the practice of a new product and develop training and documentation for the organization. Deployment or implementation establishes the idea as an ongoing resource within the organization. And the often forgotten stage is that at some point that idea may be obsolete and need to be retired.

In a complex organization like a large university, there are a lot of good ideas for employing new information technology, but even some of the best ideas my not make it past -- or even to -- the testing and development stage. It's easy for an idea to become lost in the maze of the organization. Who should hear about your idea? Your manager or department chair? Your Director or Dean? CLEAR or UIT or ITSS? The answer may be "none of the above" or "all of the above" depending on the nature and scope of the idea. A path through this maze is needed to be sure that all good ideas get their fair consideration and to be sure we are not missing an opportunity to, at least, keep up with the times or to drive innovation within our university.

Enter, the IT Idea Center

The UNT IT Idea Center is a process by which information technology-centered ideas or projects can be proposed and developed for possible implementation as a formal project or targeted as an incubation project to explore emerging trends. The Idea Center allows individuals, business units, or ad hoc interest groups to submit fully-formed ideas or speculative applications that could advance the mission of UNT. Ideas are vetted by UNT IT staff who



have expertise or a job function related to the proposed concept.

The process established for considering IT ideas is meant to bridge the large gap that often arises between concept and implementation. The process is meant to consider practicality, scope, resources, and funding associated with the idea and includes the following steps:

1. An Idea is proposed via the online submission system on the UIT web page (see below).

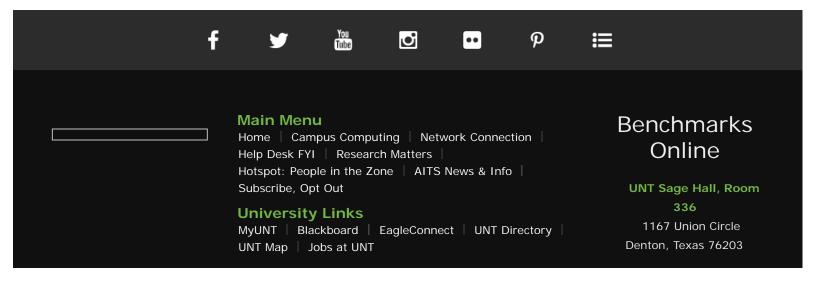
- 2. The Idea is forwarded to IT management with related expertise or oversight for evaluation and recommendation.
- 3. The Idea may be assigned to an individual or working group for further investigation or routed to IT Governance for information gathering and evaluation.
- 4. Recommendations, supporting information, and resource suggestions for an idea are documented for further consideration.

The outcome of the process will be to help foster the development of a formal project, to forward the idea, if ready, for consideration by UNT's IT Planning and Prioritization committee, or to provide feedback regarding the possible progress or further development of the idea if it doesn't yet seem to be a ready fit for the proposed scope.

The Democratization of Ideas

The IT Idea Center is the formalization of a process that has been occurring for many years. We've had good ideas come forward and have spent time and effort to ensure that we can make effective use of new or newly adopted technologies. A recent example is the adoption of Lynda.com training resources for UNT. Another example is the availability of <a href=Panopto lecture capture for use in potentially any of the generally-scheduled classrooms at UNT. Even the Blackboard Learn Learning Management System was at one time an idea kicking around about ways to support online learning.

What's new with the IT Idea Center is that it expands the source of ideas to encompass the entire UNT community. Visiting the IT Idea Center at http://it.unt.edu/idea4it allows you to share a quick idea or to start development of a formal proposal. We can't guarantee that all ideas will be adopted, but we can guarantee that all ideas will be considered.



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LYNDACAMPUS OPENS AT UNT

LyndaCampus Opens at UNT

October 2016 - In its first week. LyndaCampus opened on Sept. 1 with a strong start as hundreds of UNT students and employees explored online courses in software, creative and business skills to achieve personal and professional goals. As of Sept. 16, more than 1,200 Lynda.com visitors from UNT viewed 368 hours of 5,563 videos and 2,954 page views were counted on the **UIT** Lynda.com information page, according to Google Analytics.



We had 770 student addresses signed up, 399 employee addresses, and 52 others, perhaps those who have merged a past profile with their UNT login for September. As of Oct. 14, more than 1,780 users have activated their UNT Lynda.com accounts and 1,314 hours of video have veen viewed. More than 20,000 video sessions have been viewed and six faculty members are using Lynda.com in their academic courses this fall: ADES 3510, BCIS 4630, BCIS 4740, INFO 5960, GEOG 2110, MKTG 4620 and three sections of JOUR 3210, according to Mary Speight, instructional technology administrator, Center for

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Learning Enhancement, Assessment and Redesign.

Top 10 Courses Viewed

- 1. Microsoft® Project 2016: Essential Training
- 2. Photoshop CC 2015 One-on-One: Fundamentals
- 3. Finance Fundamentals
- 4. Agile Project Management
- 5. Introduction to Graphic Design
- 6. Photoshop CS6 One-on-One: Fundamentals
- 7. Foundations of Programming: Fundamentals
- 8. Project Management Fundamentals
- 9. Illustrator for Fashion Design: Drawing Flats
- 10. Tableau 9 Essential Training

Take a look at all of the LyndaCampus courses **here**.

Top 10 Videos Viewed

- 1. Getting started with Illustrator
- 2. Drawing basic shapes for your logo
- 3. Drawing complex shapes
- 4. Combining shapes together
- 5. Using the Ribbon
- 6. What is agile project management?
- 7. Overview of the agile life cycle
- 8. What do you already know?
- 9. Using the exercise files
- 10. Navigating the Backstage view

"I love it very much, see my LinkedIn for what I have completed. I am taking a piano lesson now." **Sharon Huang, Ph.D.**, IT Specialist II, AITS

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"I appreciate the ability to make playlists and then share them with employees as a method of training." **Ashley Olsberg**, IT manager, classroom support services manager, University Information Services

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"I have started a presentation in agile project management. That topic interests me because project management is something that I have been heavily involved in with previous employers and I want to stay on top of the latest techniques. Project management has always interested me and the principles can be used in all walks of life, even in my current position. I am sure there are other topics that I will cover. One should never stop learning new things. It keeps the mind stimulated!" **Robin**, administrative coordinator

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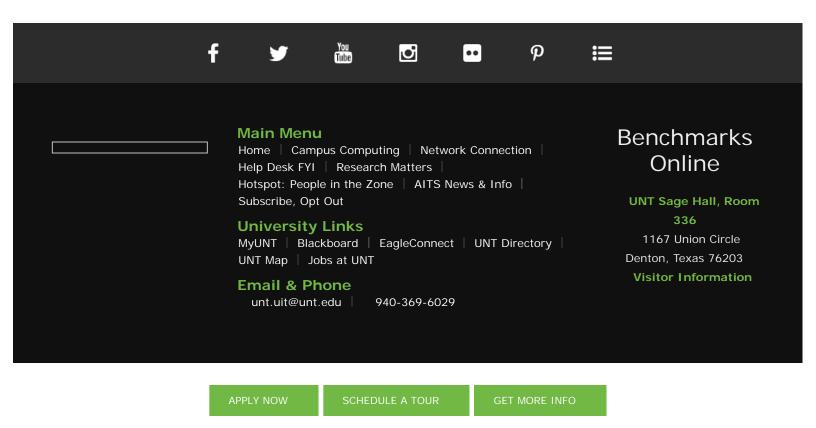
history into a UNT profile by following the setup instructions for computer or mobile devices.

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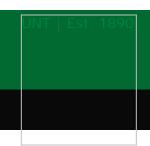
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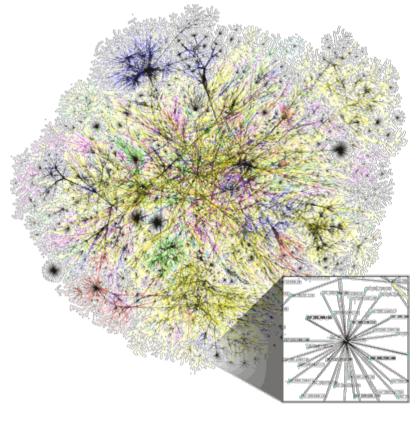
Network Connection, October 2016

The Internet as We Know It

By Philip Baczewski, senior director, University Information Technology

Recent news reports indicate that the United States may have just given away the internet.

Before you become too alarmed, be aware that the U.S. has never actually "owned" the internet so there's nothing to be given away. The internet is an interconnection of networks and



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individual devices that exists without central control, with one exception. Someone's got to keep track of all of those addresses used to connect to various internet sites.

Name and Number

Computers connect to remote internet locations base on numeric addresses. Humans tend to remember words better than numbers (do you even know your own cell phone number?), so early in the internet's development a system was devised to translate address names into the corresponding address numbers. Humans also like to organize things into categories, so we also came up with different names for different kinds of organizations using the internet. Hence our university addresses end in .EDU and most of the commercial sites we visit end in .COM, etc.

At the dawn of the Internet, one man was in charge of assigning numeric addresses to internet names, or to be more exact, Fully-Qualified Domain Names (FQDN). Jon Postel is the closest we have to an internet saint, and was one of the founding fathers of the internet as we now know it. But the job of keeping track of all of those names and numbers soon outgrew the capacity of one researcher, and in September of 1998, the Internet Corporation for Assigned Names and Numbers (ICANN) was incorporated as a non-profit organization to manage the assignment of addresses with some oversight by the U.S. Department of Commerce. After a number of extensions over the



years, that oversight ended as of Oct. 1, 2016.

Time and Time Again

Long-time readers of this column (if they exist) will recognize this news as a recurring topic.

These range from the <u>establishment</u> of ICAAN reported in 1998, to the first <u>discussion</u> of the possibility of an independent ICAAN in 2005, and the political wrangling in <u>2012</u> and <u>2014</u> over the fate of ICAAN. In 2014, I described this struggle as the U.S. Government's separation anxiety from control over the Internet.

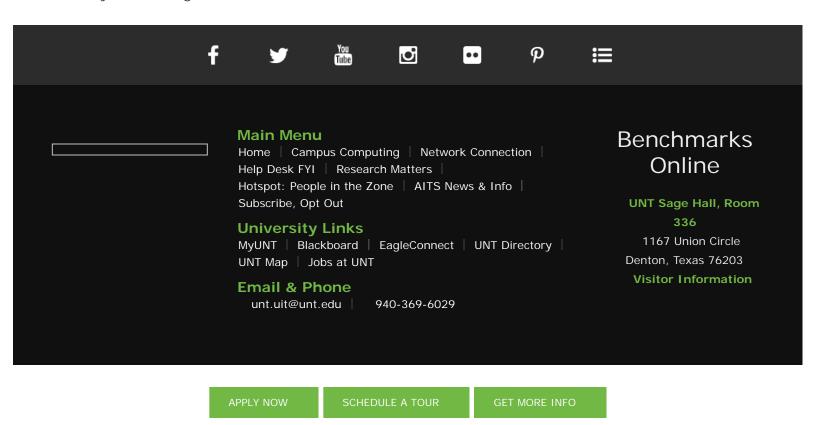
The separation anxiety was once again exhibited by certain political factions in anticipation of the Oct. 1 transition. One Texas senator (he who must not be

named) pushed to include language in the recent <u>funding bill</u> to block the transition of ICANN to independent operation. The objection cited was a threat to free speech, but those of us living in the irony age may <u>remember</u> that it was the U.S. Government that sought to suppress the creation of the <u>XXX</u> top-level domain. The latest legislative effort was not successful, with some <u>pointing out</u> that a delay could play into other countries hands by bolstering efforts to transfer control to an organization like the U.N.

Not to be outdone, four states (including Texas) <u>sued</u> the federal government to block the transition of ICAAN oversight. They <u>claimed</u> that the feds were giving away government property without authorization. This effort to maintain control of ICANN was also <u>unsuccessful</u>.

The End of an Era

In a move perhaps as significant as the change to stop <u>capitalizing</u> "Internet," Oct. 1 marks the start of an independently operating internet. The best outcome from this transition was that nobody noticed. That's because nothing actually changed in the way that addresses and names are assigned and used. Internet technology has become intrinsic to our daily lives, and there is quite a bit of incentive, both economic and social, to be sure it all keeps working. At the age of 18, it seems that ICAAN has finally come of age.



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