

# **Annual Campus Accessibility Forum**

Information & Communication Technology (ICT) Committee

December 11th, 2019

4pm – 5:30pm

# Agenda

- Overview
  - Background & Scope
  - University Response & Management
  - Corrective Action Plan (CAP)
- Progress reports
  - Software
  - Instructional Materials/Training
  - Web
- New Initiatives
- Q & A

# Background

- Complaint
- Resolution Agreement
- Corrective Action Plan



# Scope: Online Content & Functionality

## ■ Websites

- University website, Athletics website, University Catalog, etc.

## ■ Instructional Content

- Syllabi, assignments, databases & journals, etc.

## ■ Electronic Media

### • Documents

- PDFs, Word, Excel, PowerPoint, etc.

### • Video/Audio

- YouTube, Vimeo, Kaltura, etc.

## ■ Software

### • Web Applications

- Ingeniux, WebCampus, MyNevada, etc.

### • Mobile Applications

- SafePack, PackTransit, etc.

### • Campus-wide Applications

- Office 365, Adobe Creative Cloud, etc.

# University Response & Management

## ■ Oversight and Coordination

- Information and Communication Technology (ICT) Accessibility Committee

## ■ Policy

- Office of the Executive Vice President and Provost

## ■ ICT Subcommittees

- Audit
- Software
- Research and Scholarly Works

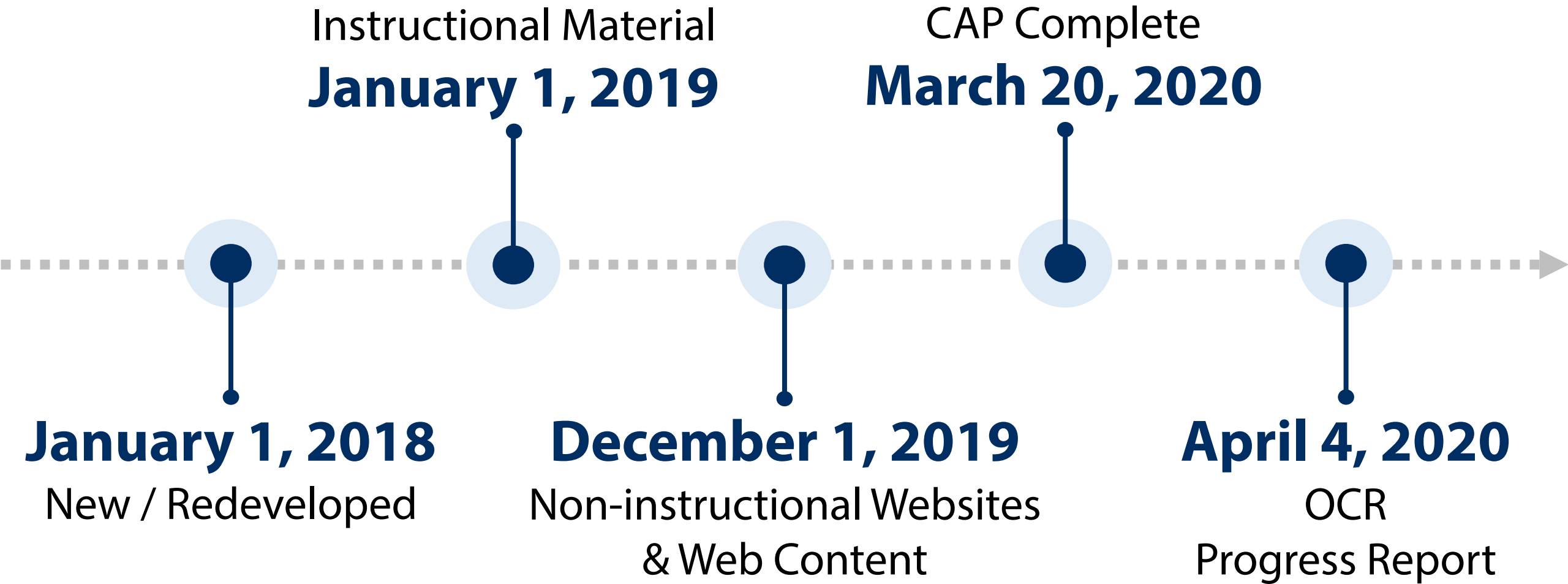
## ■ Staff

- Senior Web Developer & Web Interface Designers (MarCom)
- Instructional Technologist (TLT)
- ICT Accessibility Manager & Accessibility Analyst (OIT)

## ■ Budget

- FY2020

# Major CAP Accessibility Dates



# Compliance Summary

- **03/27/19** – Submitted 2<sup>nd</sup> CAP progress report
  - Requested an extension for the University website
  - Requested a waiver for the 3<sup>rd</sup> progress report
- **04/04/19** – OCR accepted the 2<sup>nd</sup> CAP progress report
  - OCR approved the extension for the University website
  - OCR approved the waiver for 2<sup>nd</sup> CAP progress report
- **12/01/19** – Snapshot report generated for non-instructional websites and web applications
  - ICT Audit Subcommittee will share the final report with the Provost, President, Deans, Vice Presidents, Web Accessibility Liaisons and Faculty Senate

# Next CAP Progress Report

## ■ **April 2020 Corrective Action Plan Progress Report**

- ICT Audit Subcommittee responsible for generating the report
- The process will involve gathering the data, drafting the report, having stakeholders and legal review the document and propose revisions, before sending it off to OCR
- Planned start date of February 3<sup>rd</sup>, 2020
- The process takes approximately 2 months to complete
- Due to OCR by April 4<sup>th</sup>, 2020



# **Software**

**Shiva Pourgholaminejad**

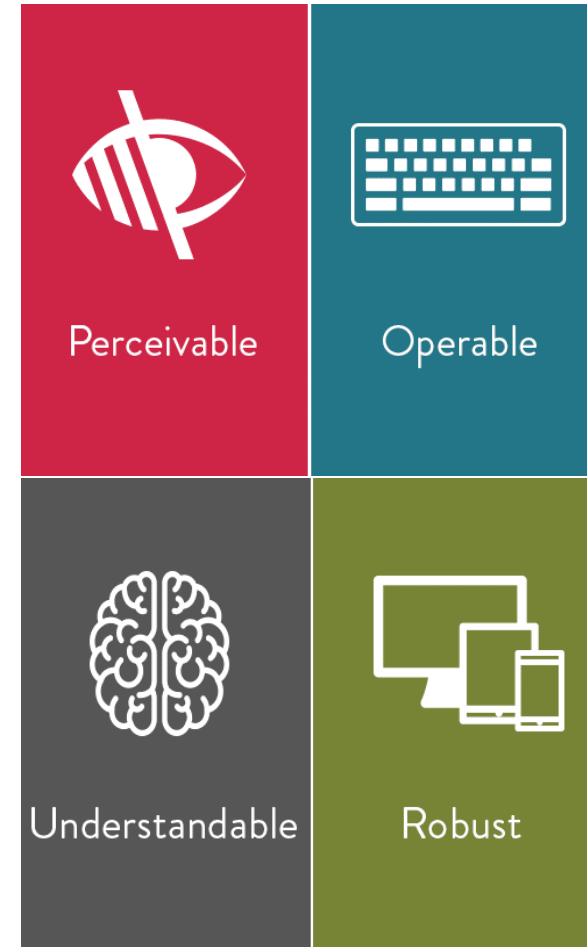
ICT Accessibility Analyst, Office of Information Technology

# UNR ICT Accessibility Procurement

- The University procures ICT that is universal in design and accessible to all individuals, including individuals with disabilities.
- UNR adopted the Web Content Accessibility Guideline(WCAG) Version 2, level AA as the standard to examine the accessibility of ICTs.

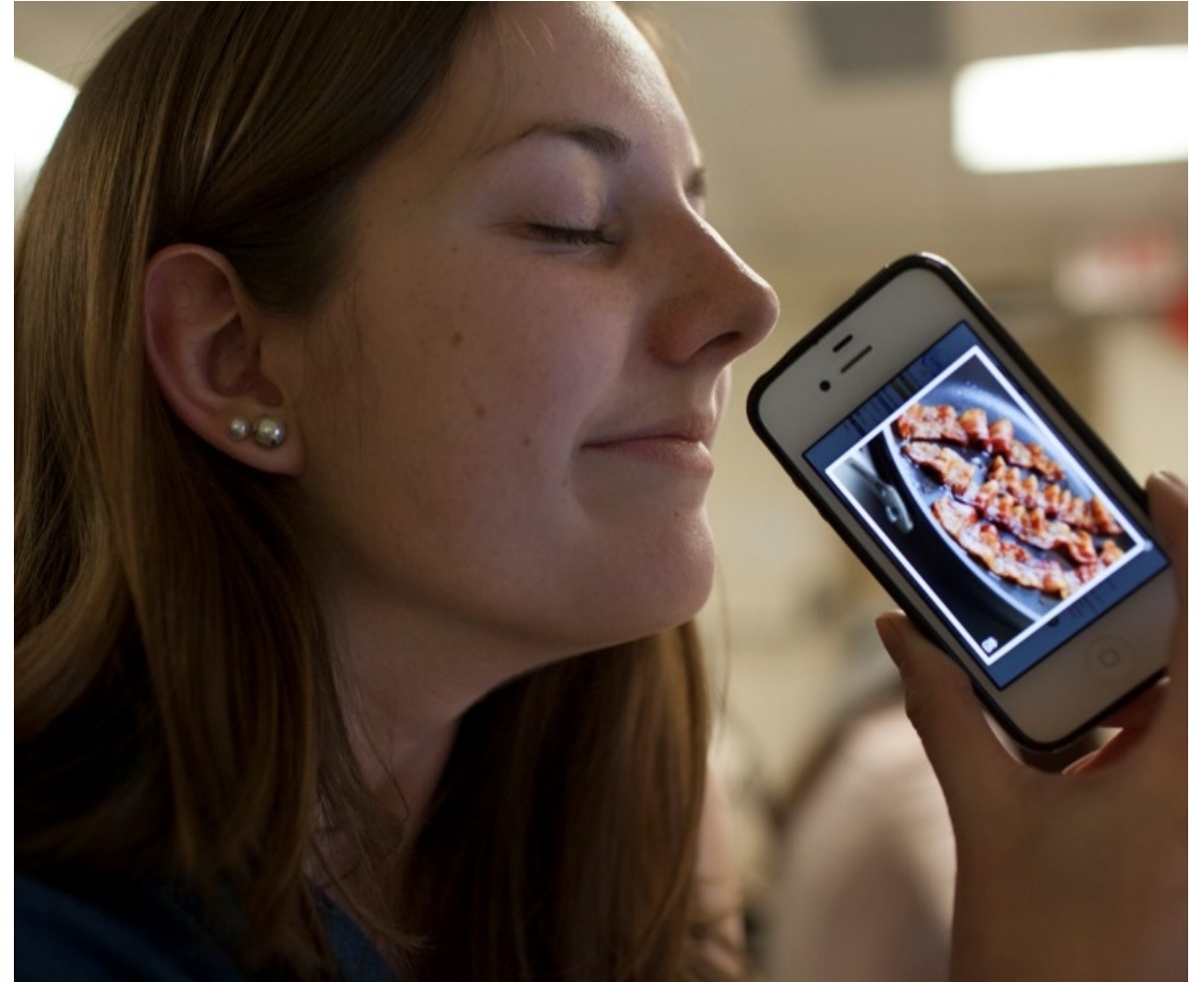
# What is WCAG?

- The [Web Accessibility Initiative](#) at the [World Wide Web Consortium](#) outlined four main web accessibility principles in the [Web Content Accessibility Guidelines](#).
- In order to be accessible, web content must be **Perceivable, Operable, Understandable, and Robust (P.O.U.R.)**.



# Perceivable

- We have to be able to perceive web content through at least one of our biological senses for it to be accessible at all.
- As a quick reminder, these are our senses: Sight, Sound, Touch, Taste and Smell.



# Operable

- Make the input methods of web content available to a wide range of input devices, including:
  - Mouse, Keyboard, Touchscreen, Voice recognition software, and etc.
- Note:
  - Not everyone uses a computer like we do!
  - Everything has to work: In, Within, Through, and Out.





# Understandable

- Design content and interfaces in a way that people can comprehend.
- Examples:
  - Specify the language `<html lang = "en">`
  - Simplify the reading and vocabulary level.
  - Provide instructions, hints, and contextual help.



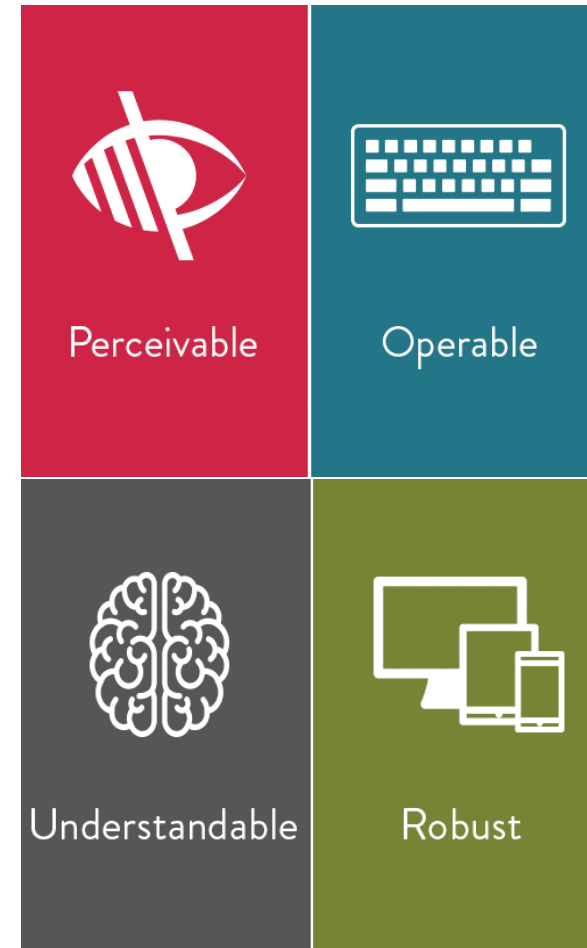
# Robust

- Robustness is about ensuring compatibility with a broad range of user agents, including assistive technologies and operating systems.



# P.O.U.R.

- While the four principles are meant for people with disabilities, websites that adhere to these principles also tend to have more usable web content and are easier for search engines to crawl.
- Embracing digital accessibility is a more sustainable strategy as well.





# Software Review Process



Gather  
Information

Submit  
Documents

ICT Review  
Process

# ICT Accessibility Data Summary

- The number of software review requests per year and the average of project days (Duration: 10/24/ 2015 – 11/01/2019).

Years	Quantity of ICT Products Reviewed Per Year	Average of Project Days
2015	10	22
2016	32	145
2017	55	94
2018	68	72
2019	191	44
Total	356	65

# ICT Accessibility Data Summary (continued)

- The number of requests in each category

Resolution	Approved	In Progress	Not Approved	Total
Accessible	109	-	-	109
In progress	-	80	-	80
No Decision	-	-	29	29
No Decision, EEAAP and Exception are in place.	13	-	-	13
Not Accessible	-	-	28	28
Not Accessible, EEAAP in Place	61	-	-	61
Not Accessible, EEAAP, and Exception are in place	36	-	-	36
Total	219	80	57	356

# **Instructional Materials**

**Don Massie**

Instructional Technologist, Teaching & Learning Technologies (TLT)

# WebCampus File Accessibility – ALLY Reports

## ■ **Course information**

- Total courses per semester
- Instructional materials reports go to Deans
- Allows TLT to identify trends and focus efforts

## ■ **Content – type and deployment information**

- Top severity problems
- Top content deployments

## ■ **Longitudinal data**

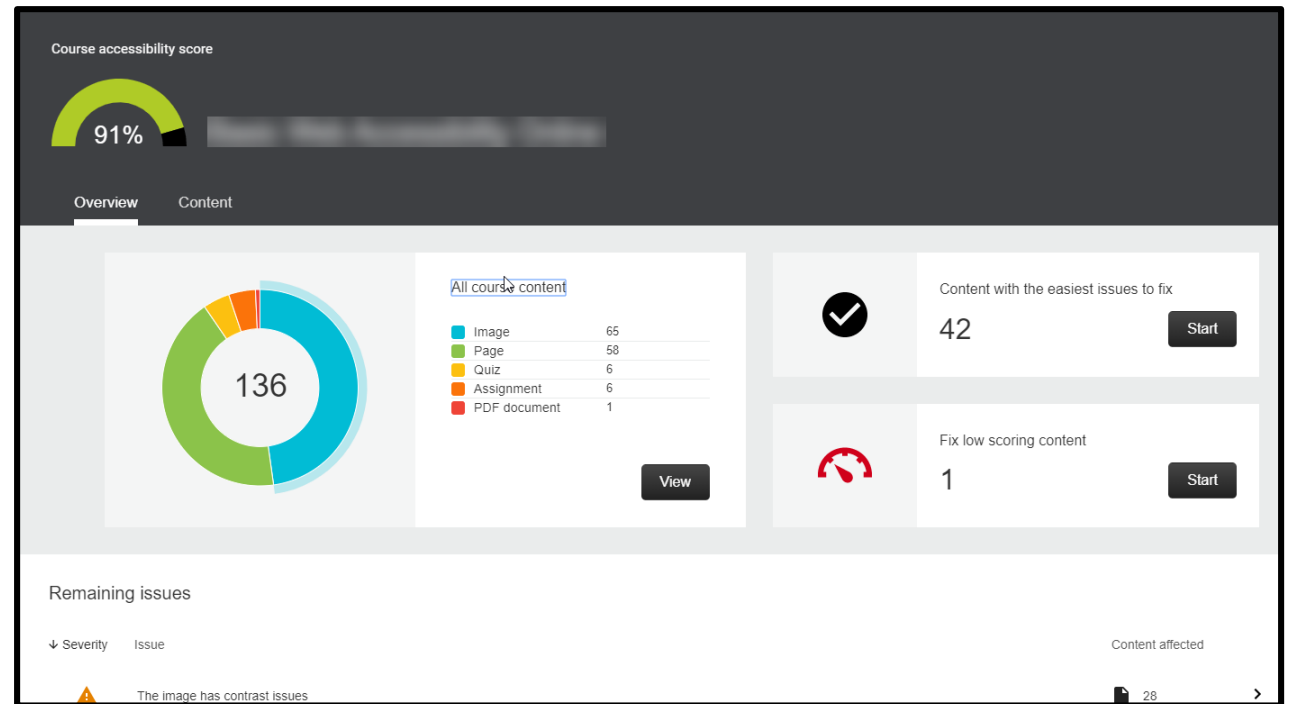
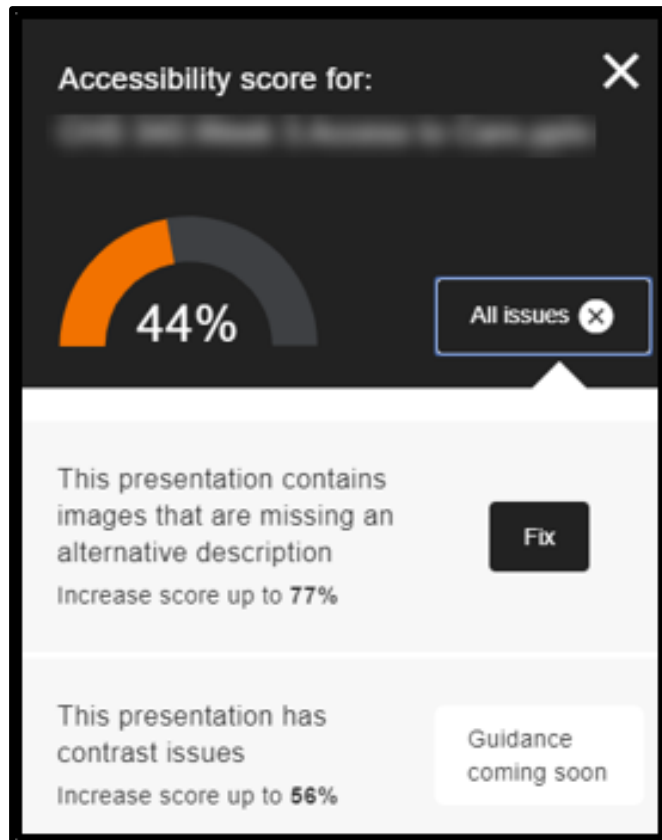
- Available starting next year

Fall 2019 Content Types  
(2567 courses)

Content Type	Total Count
PDF Document	54453
Word Document	28715
Image	23638
Presentation (PowerPoint, etc.)	21152
Other	10008
HTML	1446

# Ally – Improvements for Instructors

- **Option to address “All Issues”**
- **Full course checker**
  - Currently in testing



# WebCampus Content Accessibility Checker

## ■ Rich Text Editor

### Accessibility Checker

- Icon present in the rich text editor
- Together with Ally, provides accessibility assessment for most WebCampus content



×

Accessibility Checker

Issue 3/3 ?

Tables should include a caption describing the contents of the table.

Add a caption

Prev

Next

Apply

# STEM Improvements

- **WebCampus – advanced math (& chemistry) editor updates**
  - Expanded character set
  - MathJax addition – allows assistive technologies to read the math instead of, or in addition to, alternative text

## LaTeX Math

(math editor input on left, output on right)

<pre>f(x) = \left{\nbegin{array}{lr}1+x &amp; \text{if } x &lt; 3\\2 &amp; \text{if } x = 3\\1-x &amp; \text{if } x &gt; 3\nend{array}\nright.</pre>	$f(x) = \begin{cases} 1+x & \text{if } x < 3 \\ 2 & \text{if } x = 3 \\ 1-x & \text{if } x > 3 \end{cases}$
--	---

## Chemical Equations

(output on left, math editor input on right)

$2 \text{H}_2\text{O}_2 (aq) \xrightarrow{\text{Pt}} 2 \text{H}_2\text{O} (l) + \text{O}_2 (g)$	<pre>2\space\text{H}_2\text{O}_2\space(aq)\n\xrightarrow{\text{Pt}}\n2\space\text{H}_2\text{O}\space(l)+\n\text{O}_2\space(g)</pre>
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# Video Captioning

- **Required per WCAG 2.0 level AA**

- 3-Play, machine (Verbit) with human updates, or manual captioning
- Manual process follows DCMP captioning guidelines

- **2018 counts (at open forum)**

- 662 videos and 211 hours captioned

- **2019 to date counts**

- 872 videos and 235 hours captioned

- **Ability to report issues**



# Works in progress

## ■ Low vision and learning disability support

- Microsoft Immersive Reader (currently in testing)

## ■ STEM solutions

- LaTeX to HTML, MathML, ChemML
- Conversion support: Pandoc, MathJax, R Markdown
- Software support: MathType, EquatIO, PDF options

## ■ Research and Scholarly Works Subcommittee

- Graduate repository – ScholarWorks content
- Personal research papers and articles posted on instructional pages



# Instructional Resources

- **ALLY**
- **Adobe Acrobat Pro**
- **Instructional Design Team**
  - Assistance with making your instructional materials accessible
  - Captioning services: [captions@unr.edu](mailto:captions@unr.edu)
- **Training**
  - [tlt.unr.edu](http://tlt.unr.edu)
  - Departmental sessions/small group sessions can be scheduled for your group on request



# **Training**

**Don Massie**

Instructional Technologist, Teaching & Learning Technologies (TLT)

# Training Sessions

- **Basic Web Accessibility**

- Annual requirement per OCR resolution
- Face to Face and Online options
- Enrollments are increasing; majority are now choosing online

- **Creating Accessible Office Documents**

- **PDF Remediation For Accessibility**

- **Accessible Files in WebCampus: Hands-on With Ally**

- **Planned for 2020:**

- Adobe InDesign – setting up for accessibility
- Best practices for accessible videos
- Accessible Email best practices
- Currently investigating EPUB solutions



# Web

**Kalena Pelekai-Wai**

Chair, ICT Audit Subcommittee

ICT Accessibility Manager, Office of Information Technology

# Web Property Registry

## ■ Total

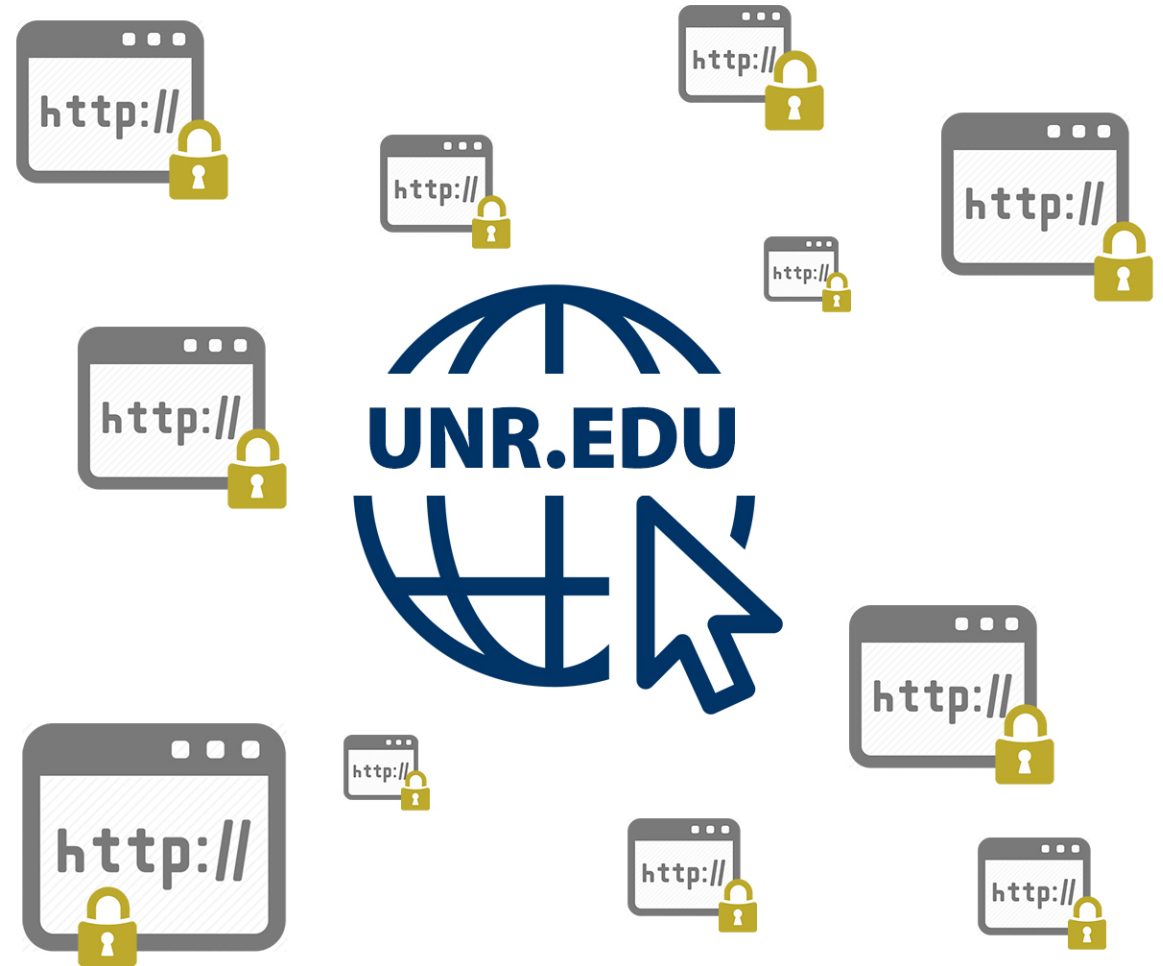
- 265 total sites
- 217 in Siteimprove
- 188 active

## ■ Growth

- Web Registry: 19% increase (223 to 265)
- Siteimprove sites: 38% increase (157 to 217)
- Active sites: 20% increase (157 to 188)

## ■ Coverage

- 82% (217 of out 265)



# Websites

## ■ September 10, 2018

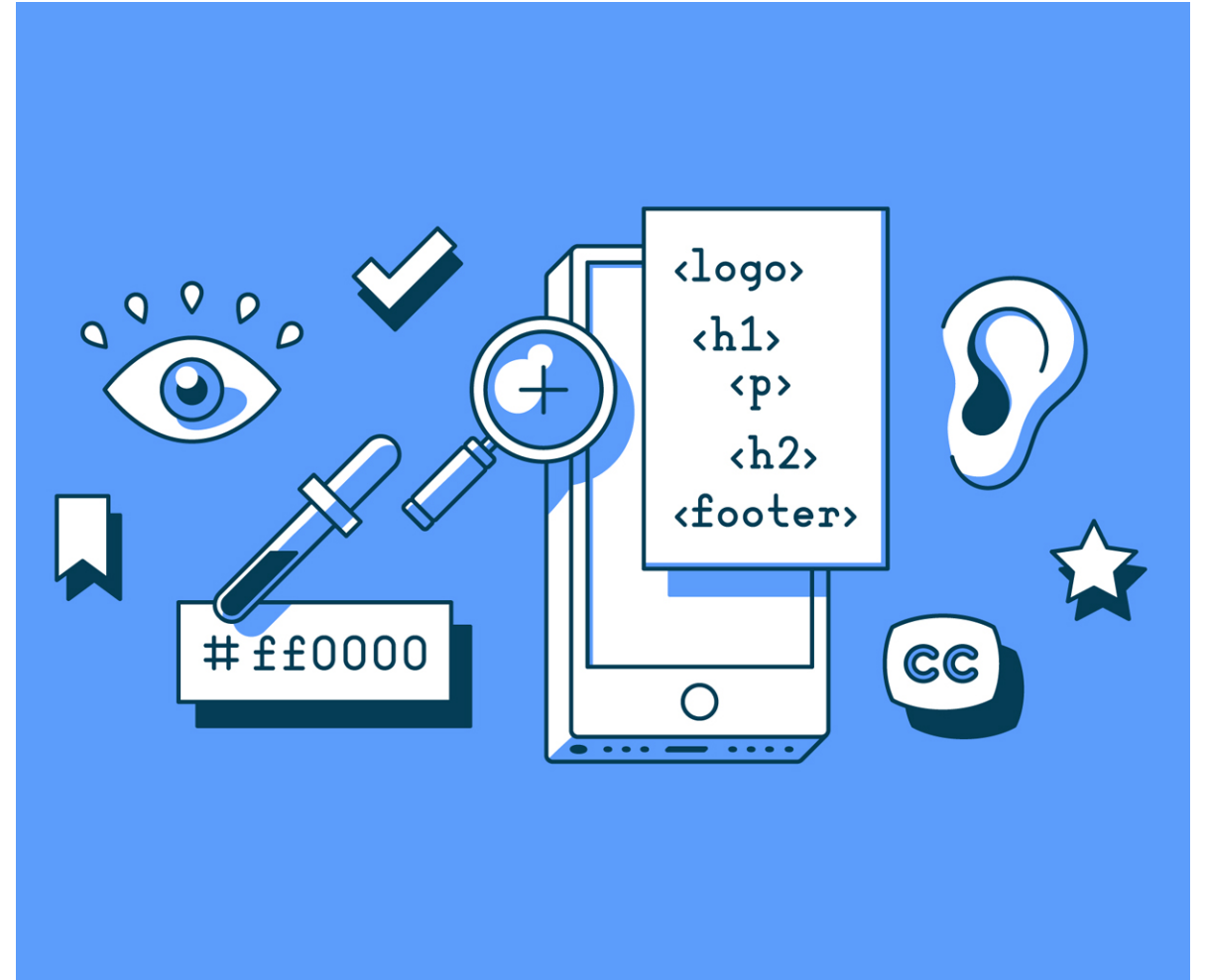
- 3,493 Level A issues
- 395 Level AA issues
- 382,966 pages

## ■ November 7, 2019

- 4,088 Level A issues
- 484 Level AA issues
- 402,495 pages

## ■ Overall

- 17% increase in Level A
- 23% increase in Level AA





# Documents

## ■ PDFs

- **2019:** 46,473 PDFs
  - 27,594 (60%) were inaccessible
- **2018:** 42,801 PDFs
  - 23,120 (54%) were inaccessible
- **Overall**
  - 4,474 additional inaccessible PDFs (+19%)

## ■ Other Documents

- **2019:** 5,965
- **2018:** 5,802



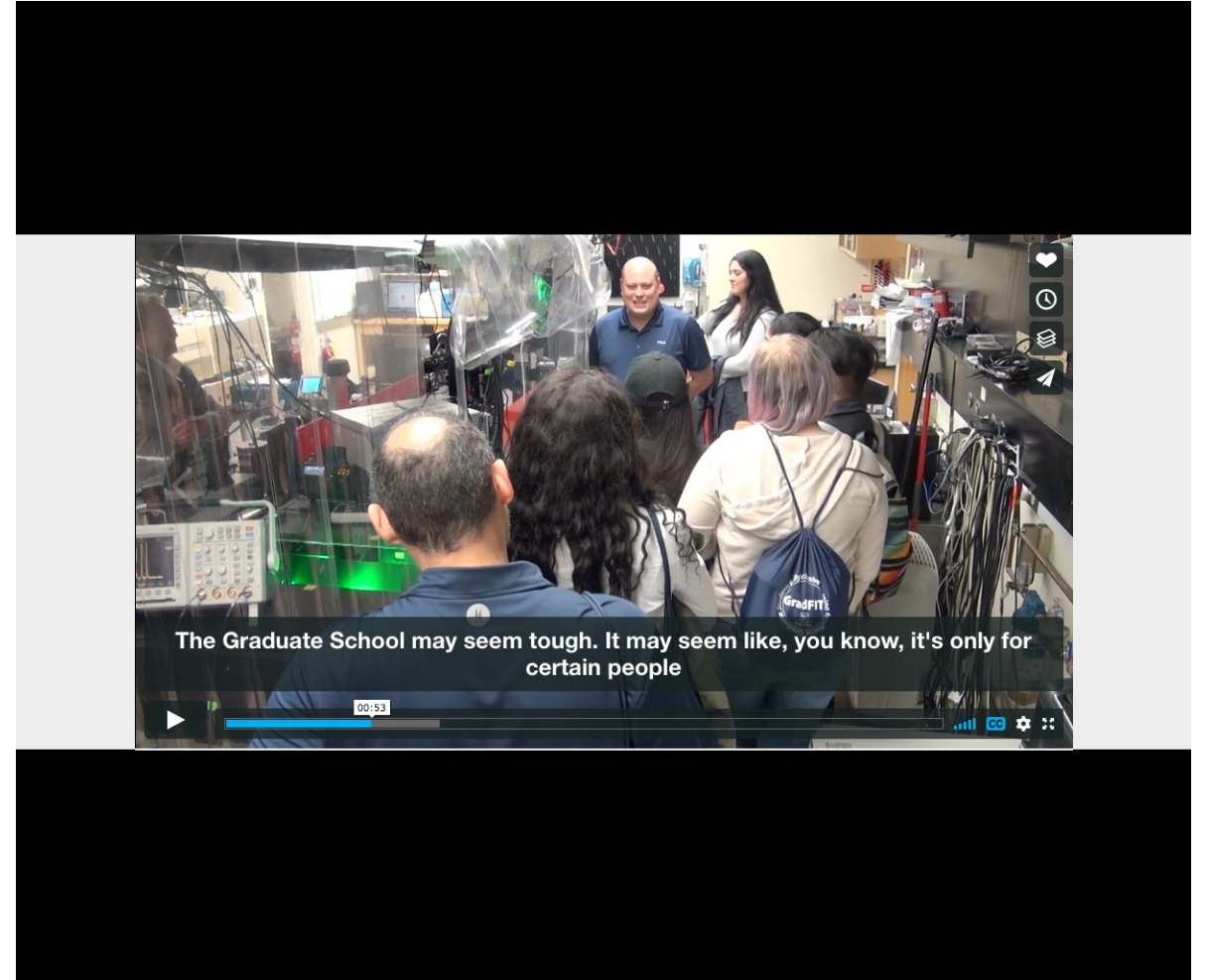
# Videos

## ■ Hosted videos

- 114 videos discovered on the University YouTube (78) & Vimeo (36) accounts, 114 captioned

## ■ Embedded

- 2,298 embedded videos total across all sites
- 1,865 YouTube Embeds
- 454 Vimeo Embeds



# University Website Redesign & Rebuild Project

## ■ Status

- New University website went live on February 2019

## ■ Phased Content Migration

- Began in November 2018 before launch
- After launch several major sections went live

## ■ Progress

- Total builds/migrations: 235
- Complete: 140 (~ 60%)
- In progress: 43 (~ 18%)
- Not complete: 52 (~ 22%)

## ■ Goal

- Complete migration by January 31, 2020

## ■ Other sites in the CMS

- library.unr.edu and med.unr.edu



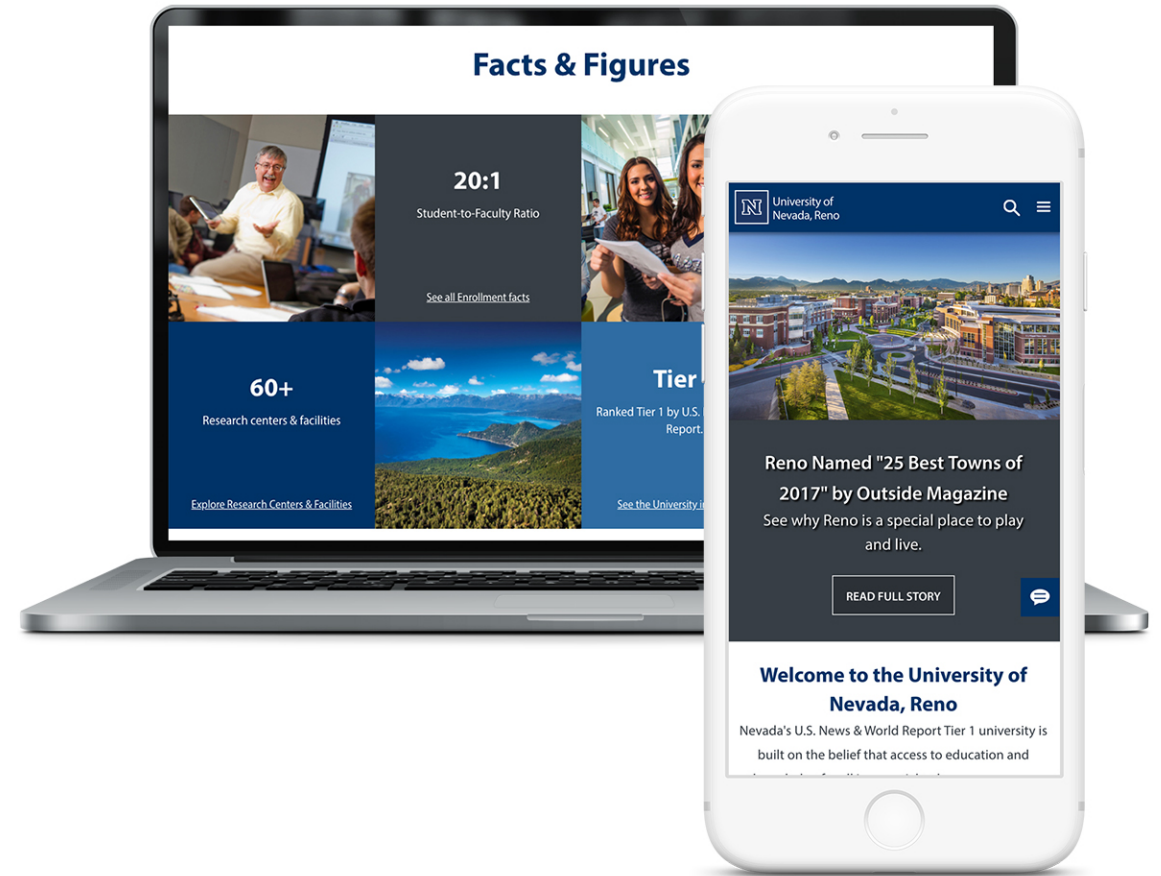
# University Website

## ■ Web

- **New Only:** 7 Level A & 1 Level AA issues; 4,050 pages
- **New + Old:** 33 Level A & 2 Level AA issues; 11,761 pages
- **2018:** 23 Level A & 2 Level AA issues; 16,111 pages

## ■ PDFs

- **New Only:** 19 inaccessible PDFs, 391 total PDFs (4.85%)
- **New + Old:** 2,706 inaccessible PDFs, 4,498 total PDFs (75.26%)
- **2018:** 5,054 inaccessible PDFs, 6,075 total PDFs (75.26%)





# All Other Websites

## ■ Web

- **2019:** 4,048 Level A & 481 Level AA issues; 386,684 pages
- **2018:** 3,976 Level A & 462 Level AA issues; 218,336 pages

## ■ PDFs

- **2019:** 24,869 inaccessible PDFs, 41,975 total PDFs (59.24%)
- **2018:** 18,066 inaccessible PDFs, 36,086 total PDFs (50.06%)
- **Overall:** 6,803 additional inaccessible PDFs (+38%)



# Web Accessibility Resources

## ■ Accessibility Website

- Visit [www.unr.edu/accessibility](http://www.unr.edu/accessibility) to learn more about accessibility, ask a question, or submit a request

## ■ Training

- In-person: Basic Web Accessibility, PDF Remediation, CMS & Siteimprove
- Online courses: Siteimprove Academy & Lynda.com

## ■ Tools

- Siteimprove Intelligence Platform
- Chrome Extensions: Siteimprove Page Checker & WAVE Tool
- Adobe Acrobat Pro

## ■ Technical Guidance

- For guidance with web content within the University Website (CMS)
  - Contact [webhelp@unr.edu](mailto:webhelp@unr.edu)
- For guidance with all other websites
  - Contact your designated [Web Accessibility Liaison](#)

# **New Initiatives**

**Kalena Pelekai-Wai**

Chair, ICT Audit Subcommittee

ICT Accessibility Manager, Office of Information Technology

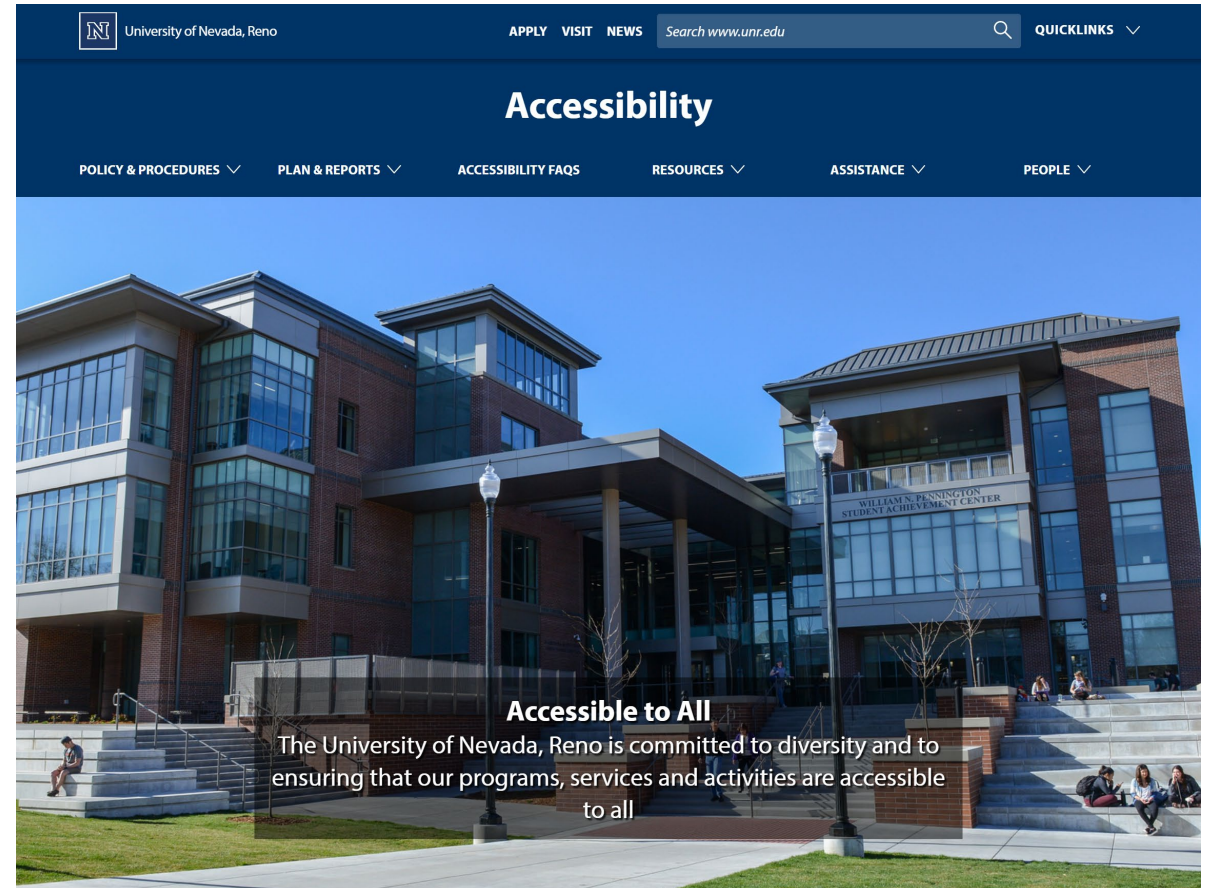
# New Accessibility Section

## ■ Goals

- Central hub
- Up-to-date information
- Improve user experience

## ■ URL: [www.unr.edu/accessibility](http://www.unr.edu/accessibility)

- Central Content Management System (CMS)
- Base template
- Components





# New Ticketing System and Digitized Workflows

- **TeamDynamix**

- Enhanced ticketing and tracking

- **DocuSign**

- Digital signatures

- **OnBase**

- Digital document management and workflow



# New Tools and Remediation Services

- **QA InfoTech**

- Website and PDF remediation services for a fee

- **Commonlook**

- PDF remediation services for a fee

- **Commonlook PDF**

- Licensed plugin to assist with PDF remediation





# New Partnerships

- **NSHE Accessibility Working Group**

- NSHE, UNLV, TMCC, GBC, WNC, DRI, CSN

- **ICT Accessibility Committee**

- Broadening the group to include physical and cultural aspects of accessibility



# The End

- Thank you for your time and attention!
- For more information, please visit [www.unr.edu/accessibility](http://www.unr.edu/accessibility).



# Questions

