

# ACCESSIBILITY AND UDL IN ACTION: ASSESSING ARTICULATE RISE 360

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# AGENGA

01. BACKGROUND

02. CURRENT STATUS

03. HEALTH-SCIENCE  
SPECIFIC TOPICS



# 01.

## BACKGROUND



# ARTICULATE RISE 360 AT UOFT



- AR 360 to develop asynchronous learning modules
- UofT and UTL resources were general to teaching, not specific to AR 360
- Gap in health sciences-specific recommendations

# ACCESSIBLE AND INCLUSIVE LEARNING

## Accessibility for Ontarians with Disabilities Act (AODA) & Universal Design for Learning (UDL)



“One in five of the Canadian population aged 15 years and over – had one or more disabilities.”

- Canadian Survey on Disability Report

# THE CHECKLIST

## Practicing Accessibility and UDL Principles on Articulate Rise 360, prototype phase

### PRACTICING ACCESSIBILITY AND UDL PRINCIPLES ON ARTICULATE RISE 360

#### THE CHECKLIST

The aim of this checklist, based on [accessibility guidelines](#) and [UDL principles](#), is to help you during the creation of new modules and updating existing modules.

#### GENERAL SUGGESTIONS

These suggestions apply to any module regardless of subject area.

#### Learning Objectives

- Include a list of learning objectives at the beginning of the module

#### Captions

- Include captions to describe images/tables at a high contextual level, similar to a title (i.e., Figure X, or Table X.)

#### Alternative Text (alt text)

- Ensure all images and videos have all text ([Add Alt Text using Rise 360](#))
- Avoid "image of", "picture of", or duplicating body text around the image
- Add "NULL alt text" if images do not convey essential information

#### Body Text

- Include maximum of 1-2 [accessible font styles](#)
- Use clear and plain language
- [Resize the preview](#) on browser and ensure text is readable when enlarged to 200%

#### Contrast and Colour

- Use [a color contrast checker](#) to ensure the contrast ratio to be at least 4.5:1

#### Headings

- Apply heading levels to organize contents
- Avoid skipping heading levels (e.g., <h2> to <h4>), or use levels for formatting only
  - Can use statement box to highlight content

#### Links and Hypertext

- Use link words and phrases that are unambiguous, can be intuitively organized regardless of order
- Avoid the word "link" in the link text and/or non-informative link phrases such as:
  - Click here
  - here
  - more
  - read more
  - link to [some link destination]
  - Info

#### Lists

- Use a numbered list when the order/steps matter, otherwise use bullet points
- Use the built-in bullet points and numbered list in a consistent format
  - Avoid having bullet points followed by a number

#### Navigation

- Test with a screen reader (NVDA, VoiceOver, or JAWS)
- Name interactive features consistently within a section
  - When naming buttons (i.e. interactive feature), use consistent formatting such as the full word, a shortened version of the word etc.
- [Ensure links, buttons, and menus can be navigated with the keyboard](#)
- Check if links and interactive components are [accessible by keyboard](#)

#### Videos & Audio

- Ensure videos/audio have transcripts or closed captions before uploading to articulate
- Ensure that audio can be paused
- Avoid content with flashing or flickering

#### Images

- Include audio descriptions for essential images/visual information
- Avoid communicating essential information in images unless that information is repeated in a text format
- Avoid images of text
- Avoid colour as the only method of distinguishing between information
- Avoid animations with flashing or flickering

# 02.

## CURRENT STATUS



# OVERVIEW OF CHECKLIST STRUCTURE

## ● GENERAL SUGGESTIONS

Principles from Web Content Accessibility Guidelines (WCAG 2.0) and UDL applied to the content, formatting, and functionality on Articulate Rise 360

## ● HEALTH SCIENCE-SPECIFIC CONCEPTS

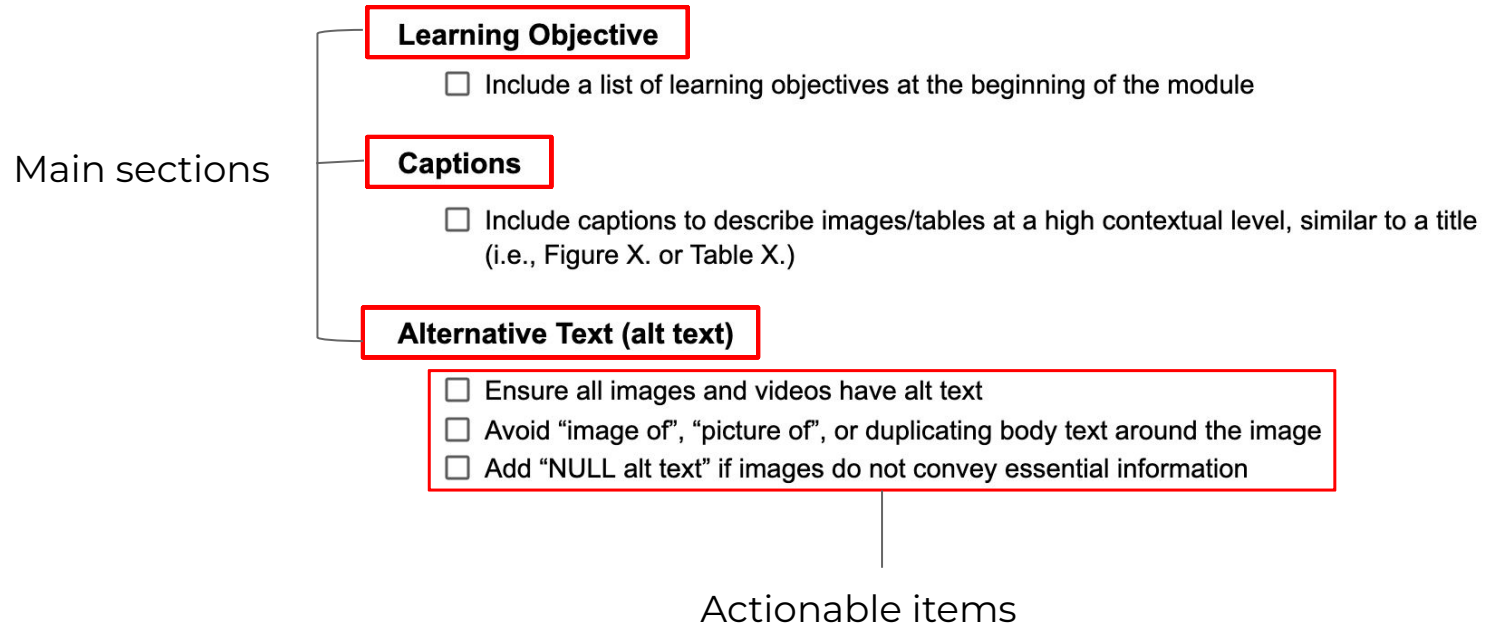
Specific health science-related content on Articulate Rise 360 to be aware of as it may present concerns for accessibility

## ● REFERENCES AND TOOLS FOR FURTHER REVIEW

List of resources to learn more about accessibility and UDL when creating asynchronous modules and tools for checking for accessibility and UDL issues




# EXAMPLE OF GENERAL SUGGESTIONS



# REFERENCES AND TOOLS

Further reading on accessibility and UDL

Tools that individuals attending workshops may be using:

- Keyboard
  - Screen readers
  - Text readers
  - Screen magnifiers
  - Refreshable braille displays
  - Speech synthesizers
- 
- JAWS
  - NVDA
  - VoiceOver
  - TalkBack

# 03.

## HEALTH- SCIENCE SPECIFIC TOPICS



# AR 360 MODULES



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## **Copy of JPM300: Conducting a Literature Review**

7 Lessons · Aug 16, 2021



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## **Copy of Week 3, Module 3: Supplementary Search Techniques**

6 Lessons · Aug 16, 2021

# SEARCH STRATEGY ACRONYMS

## Option 1: Use a PICO Framework

PCC	+
PS	+
SPICE	+
PIE	+

# DATABASE NAMES

PubMed, Ovid MEDLINE, EMBASE, CINAHL Plus,  
Cochrane

APA PsycINFO (Pronounced "A,P,A,P,S,Y,C, Info")

PsycINFO (Pronounced "P,S,Y,C, Info")

PsychINFO (Pronounced "psychinfo")

# PROBLEM: IMAGE WITH TEXT, IMPROPER ALT TEXT

CONTENT

SETTINGS



Figure 1. Identifying the filter for peer review and refereed icon on Ulrichsw eb, which indicates that *Nature* is a peer-reviewed journal.

... in the second column of the table and results from the search, as seen in Figure 1) OR apply the filter 'refereed/peer-reviewed' found in the left sidebar (also highlighted in Figure 1)

View Filter

Refereed Icon

Title	Publisher	ISSN	Country	Status	Serial Type	Format
Nature	Nature Publishing Group	0028-0836	United Kingdom	Active	Journal	Print
Nature	Nature Publishing Group	1476-4687	United Kingdom	Active	Journal	Online
Nature	Nature Publishing Group		United Kingdom	Active	Journal	Braille
Nature	Nature Publishing Group		United Kingdom	Active	Journal	Microform
Nature	Nature Publishing Group		United Kingdom	Active	Journal	CD-ROM
Nature	Address La Vallée Heureuse	2273-936X	France	Active	Monographic series	Print
Nature		0028-0836	United Kingdom			
Nature		0360-5310	France			
Carnie Nature	Edipeche	2107-8999	France	Active	Magazine	Print
Rev Nature	Cleopentick Institute	1531-5193	United States	Active	Magazine	Print
Nature Choice	Nature Publishing Group	1791-5993	United Kingdom	Active	Journal	Online
Compost Nature	Edipeche S.A.S.L.	0184-7473	France	Ceased	Print	
Nature Elected	Dogwood Ridge Outdoors	1888-8862	United States	Active	Magazine	Print
Maine Nature	Maine Nature	0025-0708	United States	Ceased	Print	
Nature's Home	Royal Society for the Protection of Birds	2054-3433	United Kingdom	Active	Magazine	Print
Nature Information		0379-1319	Switzerland			
Korean Nature	Korean Association for Conservation of Nature	0623-4036	Korea, Democratic People's Republic of	Ceased	Print	

the filter for peer review and refereed icon on Ulrichsw eb, which indicates that *Nature* is a peer-reviewed

# SOLUTION: USE A LABELED GRAPHIC (INTERACTIVE)

IMAGE


GALLERY

MULTIMEDIA

INTERACTIVE

KNOWLEDGE CHECK

Labeled graphic



The image shows a landscape with a hot air balloon in the sky, a forest, and a lake. Three circular icons with a plus sign are overlaid on the image, indicating interactive points.

(Metformin OR

AIN

(aging OR ageing OR longer life)

OR

< >

The boolean operator OR has been used between any synonyms of the same concept



# SOLUTION: USE A LABELED GRAPHIC (INTERACTIVE)

degenerative arthritis, osteoarthritis, joint pain, knee pain, hip pain and arthritis. In addition to our own department files and relevant journals, [Therapies (FACT) up to June 2007] were reviewed. (n = 10) and experts (n = 4) were contacted and interviewed. In addition, the references of all located articles were reviewed. The International Conference of Tai Chi for Health (December 2007) was held for further relevant articles.

## Contacting Authors

It's great that this team contacted associations and experts. Ideally, the team would have included the names of all 14 associations and experts that were contacted.

complementary associations (n = 14) were contacted and interviewed. In addition, the references of all located articles were reviewed. The International Conference of Tai Chi for Health (December 2007) was held for further relevant articles.

# PROBLEM: IMAGE WITH TEXT

## Steps to conducting a literature review



your process may involve multiple search questions

## conducting a literature review



CONTENT

SETTINGS



Screen Shot 2020-11-30 at 3.11.02 PM.png

[Edit](#)

Add a caption

# SOLUTION: USE A NUMBERED LIST

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Numbered list ▼

Edit

1

How to check if a journal is peer reviewed

2

How to link your google scholar account to U of T Libraries (and find more full text)!

3

How to manage your references and bibliographies

4

Resources for getting additional help with searching

- 
- 1) Remember this is not your final literature review! This is a first step to learn more about your topic/ narrow it down
  - 2) Sources like google, Wikipedia, encyclopedias, are okay here! What we are trying to do is to specify and define our topics for the literature review
  - 3) See below for some additional suggestions:
-

# THANKS!

We welcome your feedback and questions!

[bit.ly/ar360checklist](https://bit.ly/ar360checklist)

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