

# Introduction to Universal Design for Learning & Accessibility



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## Session Objectives

In this session, you will:

- Describe the Universal Design for Learning (UDL) framework.
- Apply web accessibility for text and images to a document.
- Identify free web accessibility checkers to check your content.
- Find close-captioned YouTube videos.

# Universal Design

Universal Design provides access for:

- Physically Disabled
- Elderly
- Children
- Strollers/Carts
- Wheeled luggage
- Bikes



# Universal Design **for Learning**

## Universal Design for Learning

Closed Captioning provides access to:

- Deaf
- Hearing Impaired
- Non-native English speakers
- Environments where sound is not appropriate



*Unintended  
consequences*



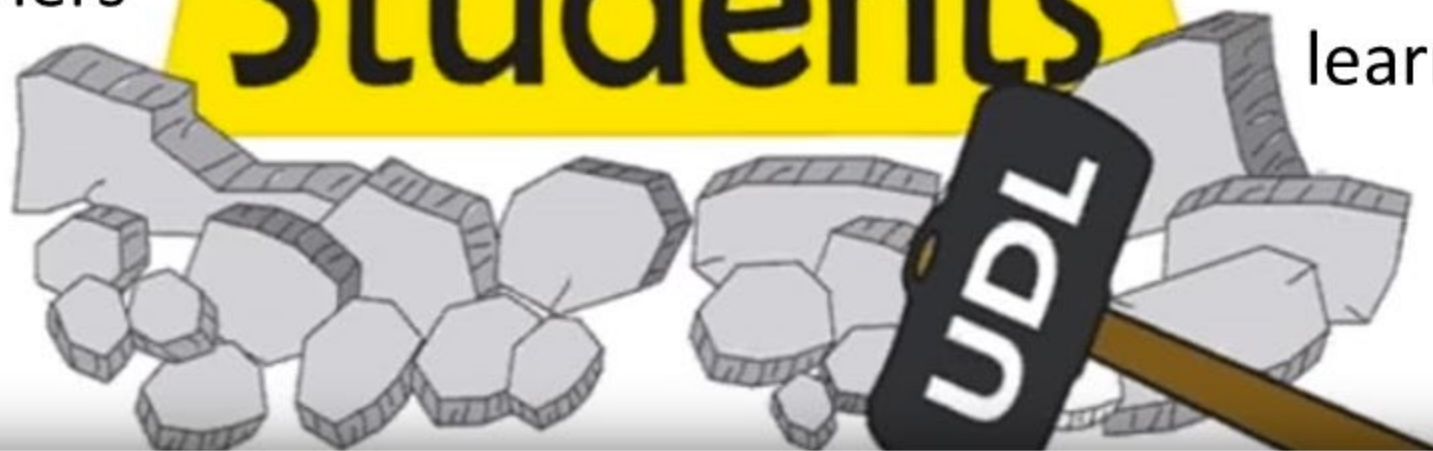
*Transforming education through Universal Design for Learning — <http://www.cast.org>*

# UDL at a glance

# Learning for All Students

Minimize  
barriers

Maximize  
learning



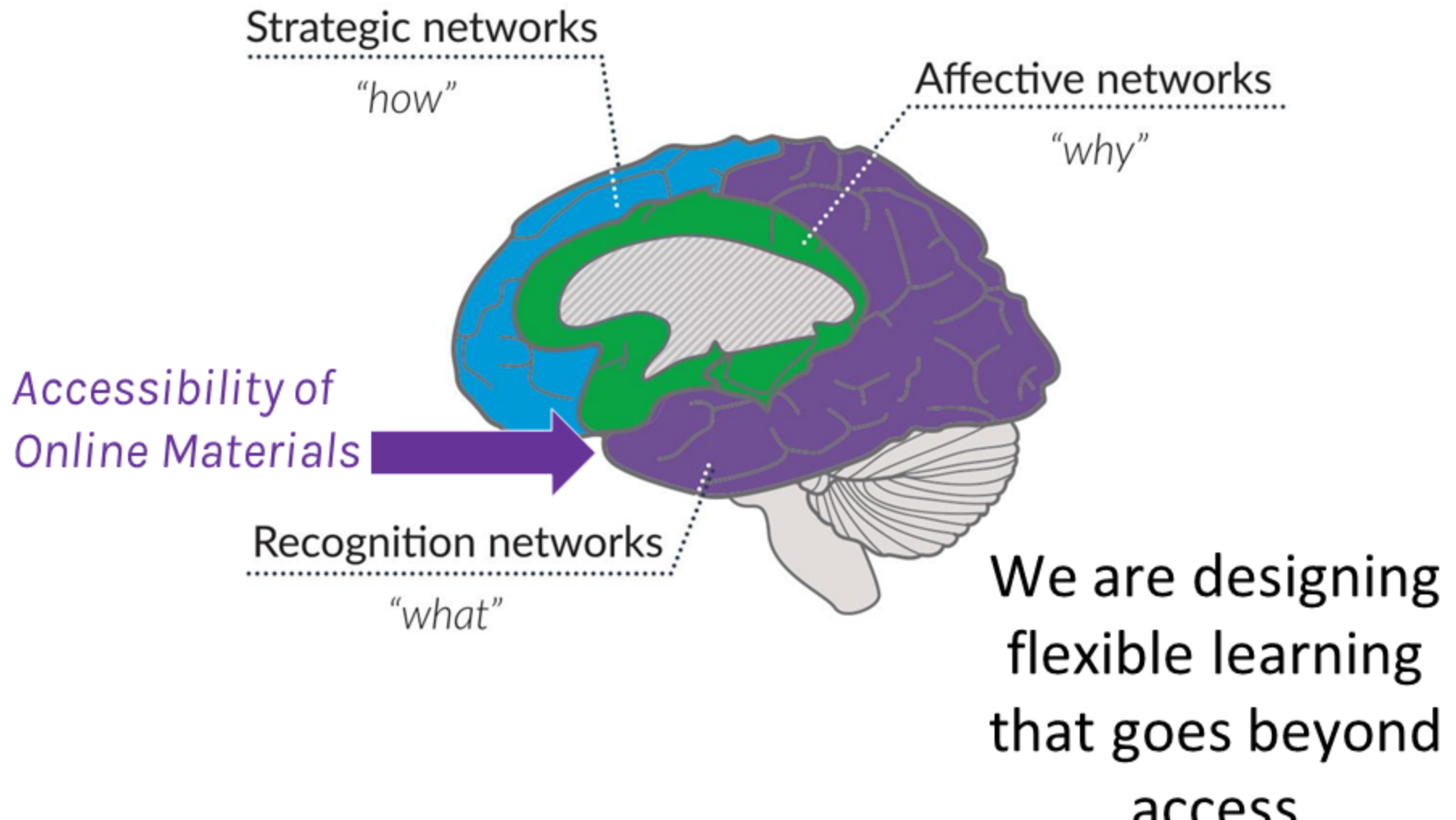
# Universal Design **for Learning**

UDL is a proactive design approach to ensure the learning environment is usable by all people, to the greatest extent possible, without the need for adaptation.





# UDL is Based on Brain Research





# Web Accessibility for Text

## Six Guidelines

1. Use heading
2. Use lists
3. Use meaningful links
4. Use easy-to-read fonts
5. Create tables with a header row and column
6. Use color contrast between text and background



## Headings

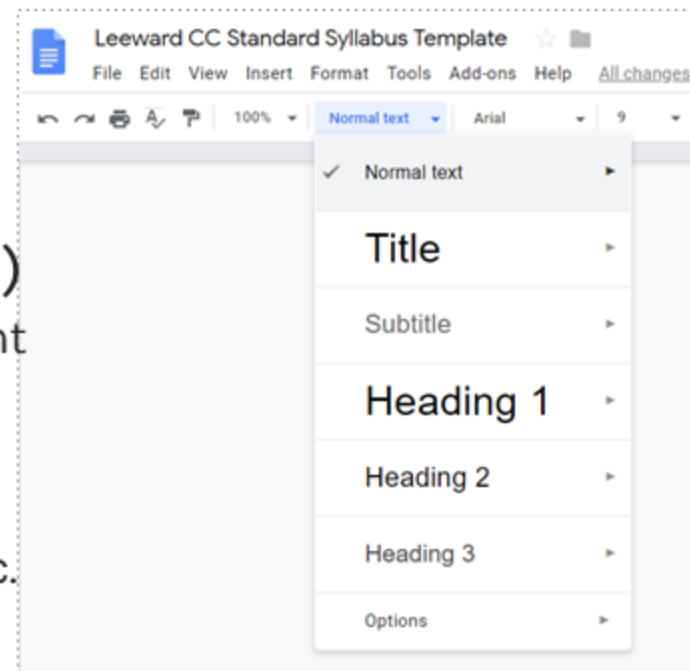
Use properly  
formatted headings



# 1. Headings

Use headings to structure content on a page.

1. Organize content in a hierarchical structure (not simply for appearance)
  - a. **Heading 1** - page title. It is the most important heading, and there is generally just one.
  - b. **Heading 2** - major section heading.
  - c. **Heading 3** - sub-section of the Heading 2.
  - d. **Heading 4** - sub-section of the Heading 3, etc.



1. Use built-in headings from word processor or website builder.

*It makes it easier for everyone to read, including those using a screen reader.*

## Headings

Use properly  
formatted headings



# 1. Headings (continued)

Leeward Community College  
<Division>

## <Course Number and Title>

### Instructor Information

← **Heading 2**



Instructor's Name:

Email Address:

Office Location:

Office Phone:

Office Hours:

My preferred method of communication is...

← **Normal text**

Share your "why" statement - this might be a personal story of why you became an educator or what shaped you into the person you are today. This may be an excerpt of your educational philosophy and why you are passionate

about your subject.

One format to use: I became an educator to [unique contribution] so that [impact on others].

### Course Description

← **Heading 2**

<Get the official course description from the most recent [KSCM](#)>

<Consider including information from you as the instructor as to why the course material is relevant and important for your students.>

### Pre-Requisites

← **Heading 2**

- <Get the pre-requisites from [KSCM](#)>

Use Headings consistently throughout your document.

Do **NOT** skip heading levels



## 2. Lists

Format as proper lists.

● Use built-in bullet or numbered lists

- Bullets - order in the list does not matter
- Number - list is a sequence

Course Materials

- <List the required textbooks and supplies.>
- <List optional course materials>



### 3. Meaningful Links

## Use meaningful text for links

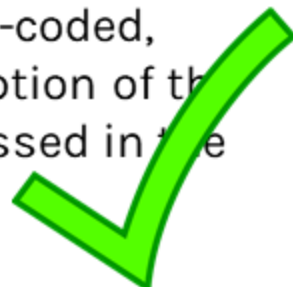
Example 1

[Click here](#) for a transcript  
of the lesson.



Example 2

The [Lesson One Transcript](#)  
provides a time-coded,  
detailed description of the  
contents discussed in the  
video.



#### Avoid

- Click here
- Here
- More

Avoid using URLs as link text

#### Do

- Link to destination
- Keep link text concise



### 3. Links (continued)

Links should open in the same window.

Links should not  
open new windows.

They are disorienting for  
those using screen readers.



Links should open  
in same window.



🔗 If a link must open in a new window, it is best practice to indicate it:

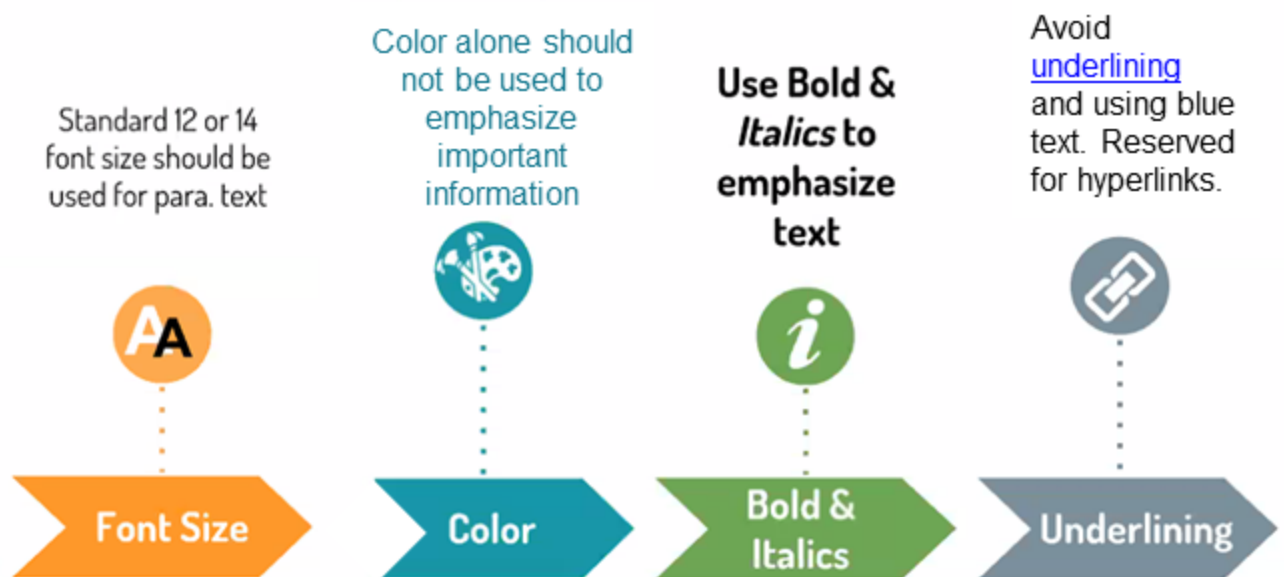
[Information on the BC Open Textbook Project \[New Window\]](#) is available online.

[Information on the BC Open Textbook Project](#)  is available online.



## 4. Font

### Use easy-to-read fonts



In general:

- 12 point for body text
- 9 point for footnotes or endnotes





## 5. Tables

Create tables with a header row and column and/or



### Images

Create tables as plain text, not as inserted images

Avoid using tables just for visual appeal



### Aesthetics



### Headers

Each column should have a designated header

Do not merge cells or leave cells blank

### Cells



Use tables for organizing data. Keep tables simple. Avoid nesting tables.



## 5. Tables (continued)

### Poor example

Timing and Scheduling			
Week	Module Learning Objective	Learning Activities	Assessment
0	Apply Universal Design for Learning (UDL) strategies	1. Introduction 2. Video Response	Forum Posts
1	Apply Universal Design for Learning (UDL) strategies.	1. Ice Breaker 2. Discussion on Concerns 3. Unintended Consequences 4. UDL Activity (Individual)	
2	Apply Universal Design for Learning (UDL) strategies.	1. Revise Course Syllabus 2. Applying UDL Into Your Course Worksheet	Syllabus Apply UDL Worksheet

**Title is part of the table.**  
**Title is merged across multiple cells**

**merged cells**



## 5. Tables (continued)

Timing and Scheduling

Title is not part of the table.

Week	Module Learning Objective	Learning Activities	Assessment
0	Apply Universal Design for Learning (UDL) strategies	1. Introduction 2. Video Response	Forum Posts
1	Apply Universal Design for Learning (UDL) strategies.	1. Ice Breaker 2. Discussion on Concerns 3. Unintended Consequences 4. UDL Activity (Individual)	UDL Activity
2	Apply Universal Design for Learning (UDL) strategies.	1. Revise Course Syllabus 2. Applying UDL Into Your Course Worksheet	Syllabus Apply UDL Worksheet

Row is tagged as a row header

No merged cells

**Microsoft Word** - Use Table Properties to specify header row and/or column.

**Google Docs** - can not specify header row. Use alt-text instead.



## Color

Use sufficient color contrast. Don't use color alone.

# 6. Color

Use sufficient color contrast between text and background.

It is necessary for those who are color blind or have low vision. Avoid red/green and red/black combinations.



Contrast ratio: 2.7:1

Insufficient  
colour  
contrast



Contrast ratio: 1.8:1

Insufficient  
colour  
contrast



Contrast ratio: 4.25:1

Insufficient  
colour  
contrast



Contrast ratio: 17.6:1

Sufficient  
colour  
contrast

## 6. Color Checker – WebAim

### Color Contrast Checker

[Home](#) > [Resources](#) > Color Contrast Checker

#### Foreground Color

#6B6BFF



Lightness



#### Background Color

#FFFF80



Lightness



Contrast Ratio

**3.84:1**

[permalink](#)

#### Normal Text

WCAG AA: **Fail**

WCAG AAA: **Fail**

The five boxing wizards jump quickly.

#### Large Text

WCAG AA: **Pass**

WCAG AAA: **Fail**

The five boxing wizards jump quickly.

<https://webaim.org/resources/contrastchecker/>

# Web Accessibility for Text

## Six Guidelines

1. Use heading
2. Use lists
3. Use meaningful links
4. Use easy-to-read fonts
5. Create tables with a header row and column
6. Use color contrast between text and background



## Web Accessibility for Images

Use descriptive alternative text (alt-text) for images. It is a meaningful description of an image for those unable to see them.

Tip: Imagine you are talking to your student on the phone. Describe what the image looks like on the screen. That is what you put in the alt-text.



# Why You Should Use Alt-Text?

## Sighted view of screen



**9 new trailers you should watch this week**  
by [Jacob Kastrenakes](#)



**Wireless convenience is driving us to spend more on headphones**  
by [Vlad Savov](#)

## Screen reader reads

"wv\_publicity\_pre\_launch\_A\_still\_43.000001.0.jpg"

**9 new trailers you should watch this week**  
by [Jacob Kastrenakes](#)

"akrales\_170124\_1410\_A\_0093.0.jpg"

**Wireless convenience is driving us to spend more on headphones**  
by [Vlad Savov](#)

# Web Accessibility for Images

## GUIDELINES



### Six Guidelines

1. Describe the content and function of the image
2. Context matters
3. Keep it concise and avoid certain words
4. End with a period
5. Skip the Title text
6. Use null ("" ) for decorative images

## 1. Describe the Image Content

Describe the content and function of the image

Examples:



“Crowd of people at a train station waiting to catch a train”



“Search”

## 2. Context Matters

### Description of the image depends on its context



If this image is being used in a **photography** class:

“Close up, greyscale photograph of man outside, face in focus, unfocused background.”

If the image is being used in a **theatre** class:

“Star Adam Lee, looking strained outside in the rain.”

### 3. Keep it Concise

#### Be succinct

Typically no more than a few words are necessary. A good guideline is 125 characters.



#### **Recommended:**

“Stack of pancakes with powdered sugar.”

#### **Not recommended:**

“Eleven pancakes on a plate with powdered sugar on the top pancake. This is also called hotcakes, which is usually eaten for breakfast in the morning”

### 3. Avoid Words

#### Avoid

- Image of
- Photo of
- This links to

Screen readers will read “Image image of...” which is redundant.

If it is important for your audience to know what type of image it is (photograph, illustration, animation), then include it at the end of the alt-text.

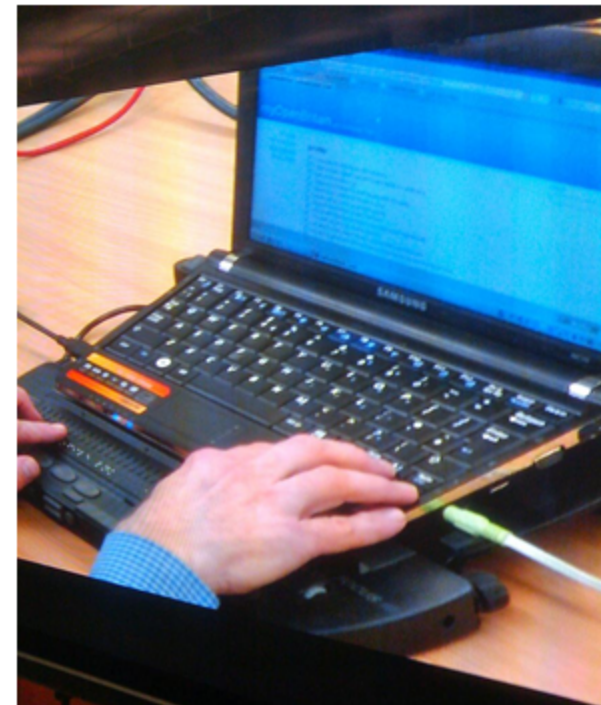


Example:  
“Tetrapod walking. Animation.”

## 4. End with a Period

**Each alt-text should end with a period.**

This will make the screen reader pause a bit after the last word in the alt-text, which creates a more pleasing reading experience.





## 5. Skip the Title Text

**If your editor has a Title field, leave it blank.**

1. Title text does not work on touch screens. It only works on desktops when you hover over the image.
2. Adding a Title text makes some screen readers read both the Title text and the Description (alt-text) which is redundant.

Alt Text

Alt text is accessed by screen readers for people who might have trouble seeing your content.

Title

Description

man wearing backpack walking down escalator

Required!

Not required

OK Cancel

## 6. Use Null (“”) for Decorative Images

### Type “” in the alt-text field

for decorative images or images that do not convey meaning

Examples:



Background image on start page



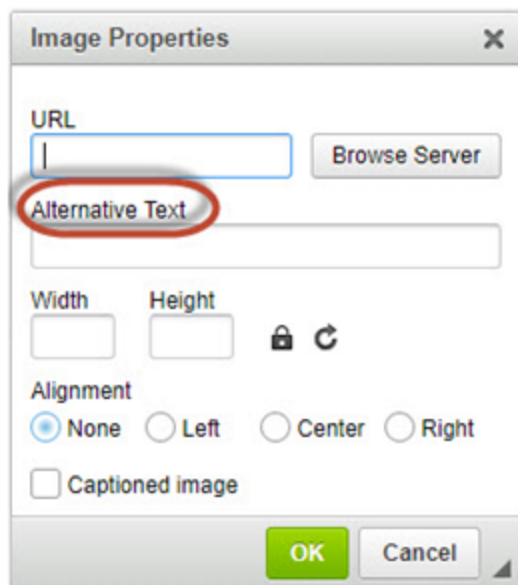
Decorative divider on a webpage

# Adding Alt-Text

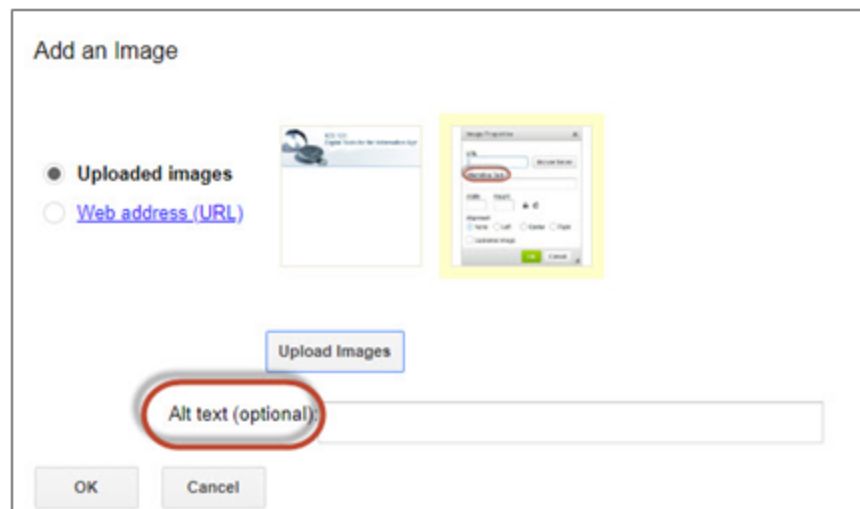
Insert the image.

Examples:

Laulima Lesson

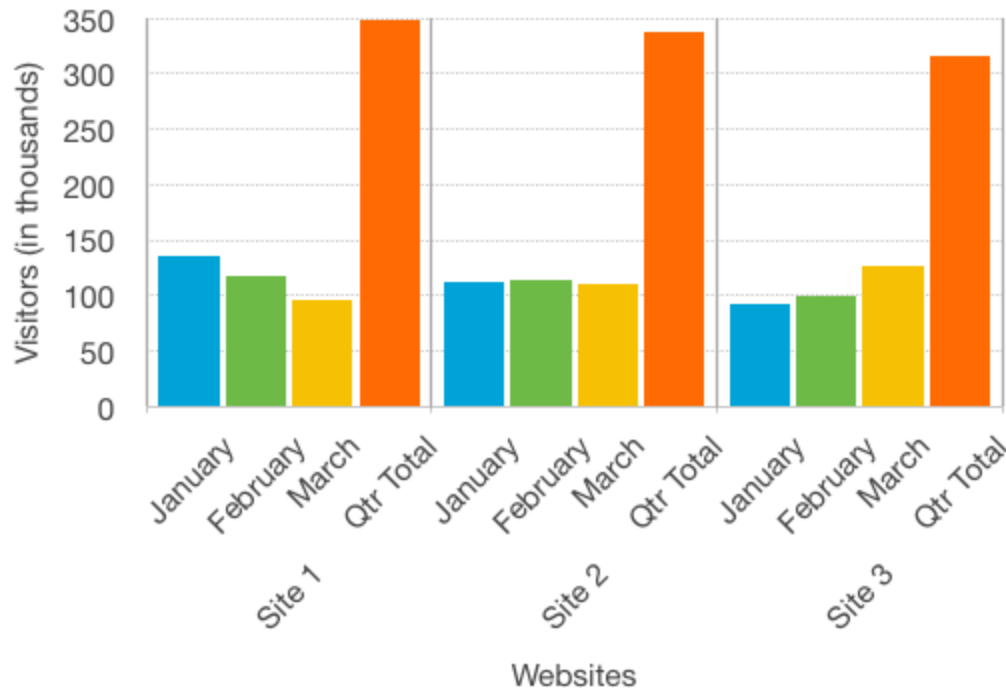


Google Sites



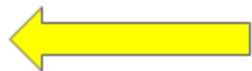
# Complex Images

2014 First Quarter Visitors to example.com  
Websites



“Bar chart showing monthly and total visitors for the first quarter 2014 for sites 1 to 3”

[Image Description](#)



Separate webpage that contains detailed information or use longdesc HTML code.

# Web Accessibility for Images

## Six Guidelines

1. Describe the content and function of the image
2. Context matters
3. Keep it concise and avoid certain words
4. End with a period
5. Skip the Title text
6. Use null ("" ) for decorative images



# Alt-Text Decision Tree

[Tutorials home](#) > [Images](#) > [An alt Decision Tree](#)

## An alt Decision Tree

This decision tree describes how to use the `alt` attribute of the `<img>` element in various situations. For some types of images, there are alternative approaches, such as using CSS background images for decorative images or web fonts instead of images of text.

Does the image contain text?

No:

Continue.

Yes:

- ... and the text is also present as real text nearby.  
→ Use an empty `alt` attribute. See [Decorative Images](#).
- ... and the text is only shown for visual effects.  
→ Use an empty `alt` attribute. See [Decorative Images](#).
- ... and the text has a specific function, for example is an icon.  
→ Use the `alt` attribute to communicate the function of the image. See [Functional Images](#).
- ... and the text in the image is not present otherwise.  
→ Use the `alt` attribute to include the text of the image. See [Images of Text](#).

Is the image used in a link or a button, and would it be hard or impossible to understand what the link or the button does, if the image wasn't there?

No:

Continue.

Yes:

- Use the `alt` attribute to communicate the destination of the link or action taken. See [Functional Images](#).

Does the image contribute meaning to the current page or context?

No:

Continue.

Yes:

- ... and it's a simple graphic or photograph.  
→ Use a brief description of the image in a way that conveys that meaning in the `alt` attribute. See [Informative Images](#).
- ... and it's a graph or complex piece of information.  
→ Include the information contained in the image elsewhere on the page. See [Complex Images](#).

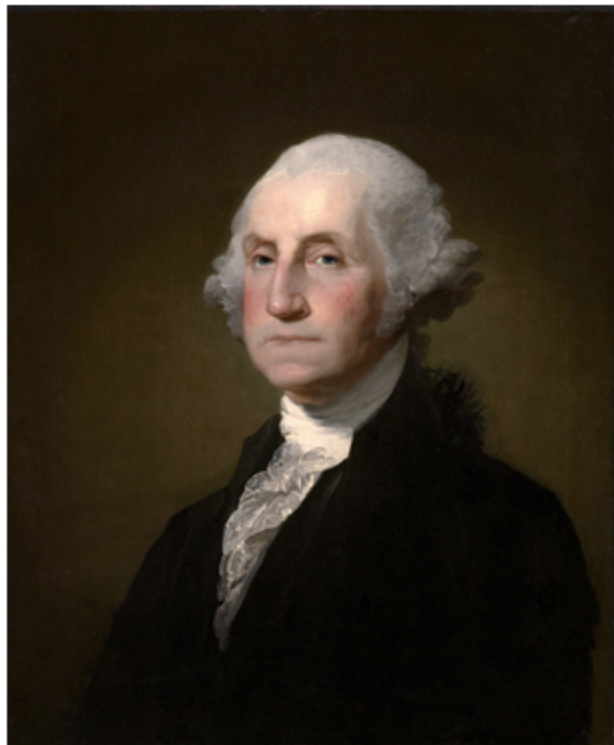
<https://www.w3.org/WAI/tutorials/images/decision-tree/>

A close-up photograph of a computer keyboard, focusing on the keys. A large, solid red diamond is superimposed over the center of the image. Inside the diamond, the text "Let's Practice" is written in a white, sans-serif font. The background shows various keys, including "G", "H", "N", and "Z", with some keys being slightly out of focus. The lighting is warm, with a soft glow on the right side.

Let's  
Practice



## Practice 1

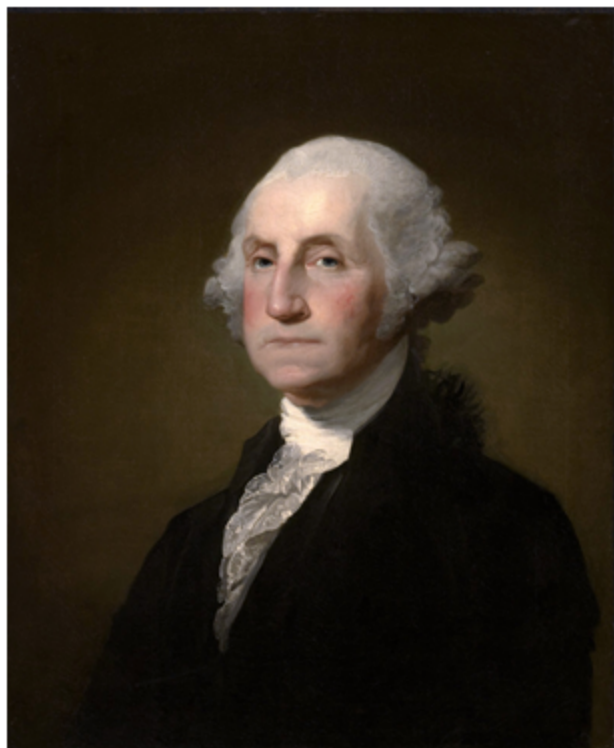


What would be appropriate alternative text for this image?

"George Washington."

Because of his role as the Commander in Chief of American forces in the Revolutionary War, and, later, the first President of the United States, George Washington is often called the "Father of his Country".

## Practice 2



**George Washington**

Because of his role as the Commander in Chief of American forces in the Revolutionary War, and, later, the first President of the United States, George Washington is often called the "Father of his Country".

What would be appropriate alternative text for this image?

Empty alt attribute (alt="") will suffice.

## Practice 3

Context:

1. In a Business course
2. In a Marketing flyer for education software



1. “Business school professor pointing to his laptop as he explains to a female student.”
2. “Salesman points to his laptop screen as he explains the education software to a female client.”

# Practice 4

## Our 10 campuses

Founded in 1907, the University of Hawai'i System includes 3 universities, 7 [community colleges](#) and [community-based learning centers](#) across Hawai'i. As the state's public system of higher education, UH offers opportunities as unique and diverse as our island home.



Mānoa



Hilo



West O'ahu



Hawai'i



Honolulu



Kapī'olani



Kaua'i



Leeward



Maui



Windward

Each picture is a link that links to the associated college

Text

Each image should specify the campus it is linking to. For example: "UH Manoa", "UH Hilo"

## Practice 5

What would the most appropriate alternative text for the icon image?

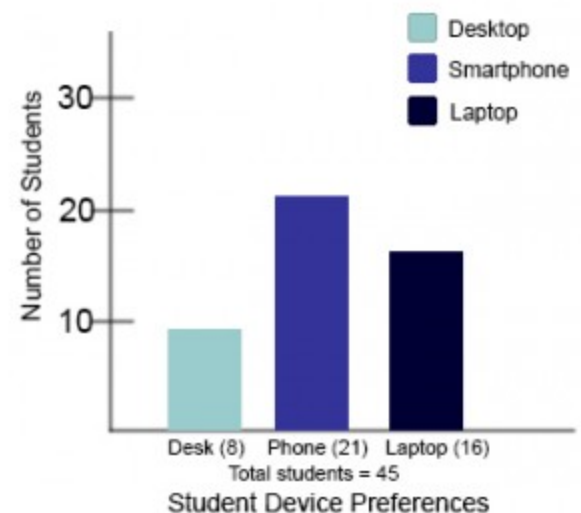
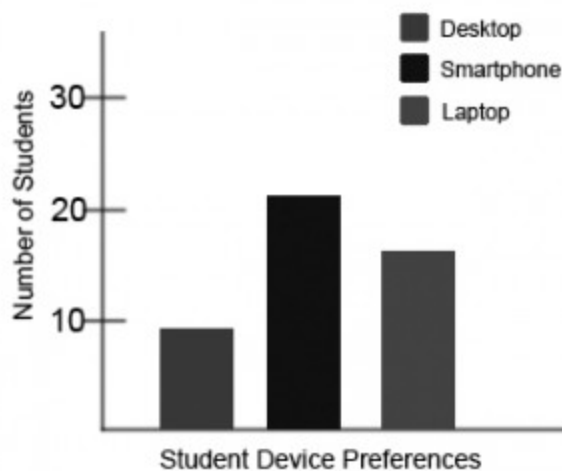
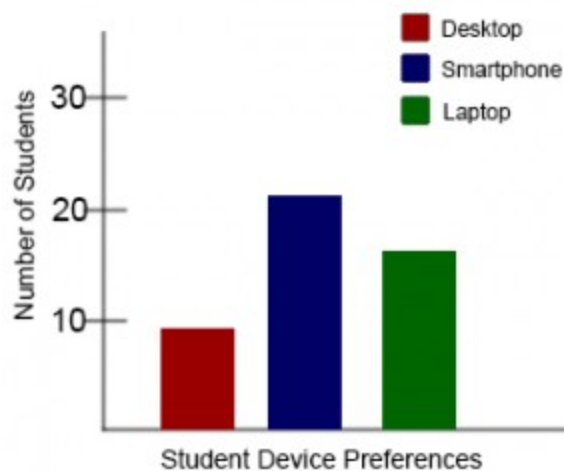
[Download the Employment Application](#)



“PDF File Type”

## Practice 6

Which is a good chart and why?



Create alt-text for the chart.

## Use Videos That Have Captions



Khan Academy provides top-quality educational videos that are organized by discipline and skill levels.



TED provides over 1700 inspiring talks.



YouTube provides millions of Creative Commons-licensed videos (among their billions of video collections). The key is filtering them to isolate the Creative Commons-licensed ones.



Like YouTube, Vimeo hosts millions of Creative Commons-licensed videos. In addition, Vimeo provides a separate Creative Commons licensed video collection which makes the filtering process much easier.



# You Tube Example

The image shows a screenshot of the YouTube website interface. At the top, the YouTube logo is on the left, and a search bar contains the word "economics" with a magnifying glass icon on the right. Below the search bar, the left sidebar contains navigation links: Home, Trending, History, Get YouTube Red, and Get YouTube TV. Below these is a section titled "BEST OF YOUTUBE" with links for Music, Sports, Gaming, and Movies. The main content area shows a "Filters" dropdown menu expanded, displaying various filter options. The "Features" column has "Subtitles/CC" and "Creative Commons" highlighted with red boxes. The "Sort by" column shows "Relevance", "Upload date", "View count", and "Rating". The top right of the main content area indicates "About 7,430,000 results".

YouTube

economics

Filters ▾

About 7,430,000 results

Upload date	Type	Duration	Features	Sort by
Last hour	Video	Short (< 4 minutes)	4K	Relevance
Today	Channel	Long (> 20 minutes)	HD	Upload date
This week	Playlist		Subtitles/CC	View count
This month	Movie		Creative Commons	Rating
This year	Show		3D	
			Live	
			Purchased	
			360°	

BEST OF YOUTUBE

- Music
- Sports
- Gaming
- Movies



# Web Accessibility Checker

Check your pages/sites

- ◎ [WAVE](#)
- ◎ [SiteImprove](#) (Chrome extension)
- ◎ Microsoft Word Accessibility checker
- ◎ Adobe Pro DC Checker

Check Color Contrast

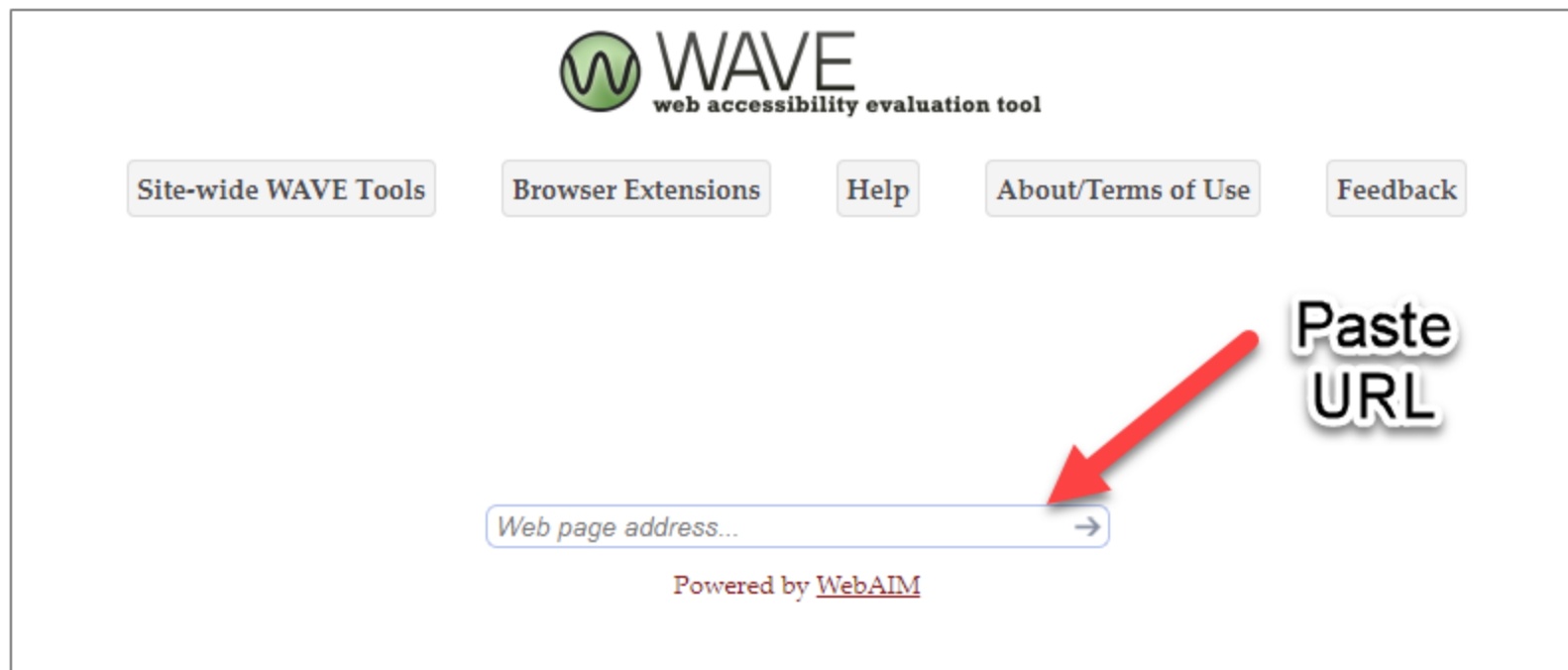
- ◎ [WebAim](#)
- ◎ [ACART](#)
- ◎ [Color Contrast Analyzer](#) (chrome extension)



Acrobat Pro DC

All UH faculty/staff may obtain a license from  
UH ITS Site License Office

# Web Accessibility Checker for Websites



The screenshot shows the WAVE web accessibility evaluation tool interface. At the top center is the WAVE logo, which consists of a green circle with a white 'W' inside, followed by the text 'WAVE' in a large, bold, sans-serif font, and 'web accessibility evaluation tool' in a smaller, lowercase, sans-serif font below it. Below the logo is a horizontal row of five buttons: 'Site-wide WAVE Tools', 'Browser Extensions', 'Help', 'About/Terms of Use', and 'Feedback'. In the center of the page is a text input field with the placeholder text 'Web page address...' and a right-pointing arrow button. A red arrow points from the text 'Paste URL' to the input field. Below the input field is the text 'Powered by [WebAIM](#)'.

WAVE  
web accessibility evaluation tool

Site-wide WAVE Tools   Browser Extensions   Help   About/Terms of Use   Feedback


Paste URL

Web page address... →

Powered by [WebAIM](#)

<http://wave.webaim.org/>

# WAVE - Web Checker


**WAVE**  
web accessibility evaluation tool


<http://blogs.leeward.hawaii.edu/acce>


Styles **No Styles** Contrast


**Summary**


WAVE has detected the following:


 **1 Errors**

 **12 Alerts**


 **10 Features**


 **33 Structural Elements**


 **19 HTML5 and ARIA**



 **3 Contrast Errors**


**Panel Options**


 **DETAILS:** A listing of all the WAVE icons in your page.


 **DOCUMENTATION:** Explanation of the WAVE icons and how you can make your page more accessible.

 **OUTLINE:** The heading structure of the web page.


 [Skip to content](#) 





**h1** [Accessibility](#) 

**h2** Making learning available to as many as possible



**h1** [Menu](#)

## Learn More: Accessibility Courses

[Accessibility at UH](http://www.hawaii.edu/access/) – <http://www.hawaii.edu/access/>

[Accessibility of eLearning](#) (OpenLearn University)

This is a free, self-paced course.

[Accessibility: Designing and Teaching Courses for All Learners](#) (OpenSUNY)

This was a free, facilitated course. The materials in Canvas are been provided as a self-paced course. It was developed to help participants gain a better understanding of accessibility as a civil rights issue and develop the knowledge and skills needed to design learning experiences that promote inclusive learning environments.

[Basics of Inclusive Design for Online Education](#) (University of Colorado)

This free, facilitated course provides instruction and strategies to support you in developing a course that is inclusive to students with a wide range of abilities, including students with disabilities. The Coursera course covers effective practices to increase inclusion and avoid some of the common accessibility issues that can arise in an online course.

[Online Accessibility Resource Documents](#) (California Community Online Ed)

This free site has information about online accessibility, including self-guided tutorials and courses, files for workshop activities, webinars, presentations, and other resources related to accessibility and online education.



# Take away

1. Inclusive design benefits ALL students, not just those with disabilities.
2. Don't try to do your entire course at once.
3. Top three accessibility tasks:
  - a. Alt-text for all images
  - b. Headings for all pages
  - c. Meaningful links
4. Investigate the services your campus Disability Office offers.

“When a flower doesn't bloom, fix the environment in which it grows, not the flower.”  
- Alexander den Heijer



Let's Practice

<http://go.hawaii.edu/pvf>

## Hands-On

Using the sample document (<http://go.hawaii.edu/pvf>), please do the following:

1. Properly format the Title
2. Use properly formatted Headings
3. Use properly formatted lists
4. Add appropriate Alt-text to images
5. Make meaningful hyperlinks

Thanks!

ANY QUESTIONS?



Please contact me at:

[leannech@hawaii.edu](mailto:leannech@hawaii.edu)

Presentation and other resources at:

<http://go.hawaii.edu/Ga6>



# Resources

“2014 First Quarter Visitors” image by [W3C](#). Retrieved April 11, 2019 from <https://www.w3.org/WAI/tutorials/images/complex/#image-containing-substantial-information> (Slide 33)

“Search” image from [Amazon.com](#). Retrieved April 11, 2019 from <http://www.amazon.com/> (Slide 25)

CAST (2018). *UDL and the learning brain*. Wakefield, MA: Author. Retrieved June 6, 2018, from <http://www.cast.org/our-work/publications/2018/udl-learning-brain-neuroscience.html>

Goransson, D. (2017, October 16). Alt-texts: The Ultimate Guide. Retrieved June 4, 2018, from <https://axesslab.com/alt-texts/> (Slide 23)

[Just and Fair Design](#). (2019, January 28). Retrieved January 28, 2019 from <http://universaldesignaustralia.net.au/just-and-fair-design/> (Slide 3)

Netflix start page. (n.d.). Retrieved June 4, 2018, from <https://www.netflix.com/> (Slide 31)

Smith, C. (n.d.). Accessible Learning. Retrieved February 14, 2018, from <http://www.livebinders.com/play/play?id=2268951> (Slides 15 & 16)

University of Hawaii screen. (n.d.). Retrieved June 4, 2018, from <https://www.hawaii.edu/> (Slide 40)

[Universal Design for Learning Guidelines](#). Retrieved from <http://udlguidelines.cast.org/> is copyrighted by [CAST](#).

[Web Accessibility Tutorials](#). (2017). Retrieved April 9, 2019 from <https://www.w3.org/WAI/tutorials/> is copyrighted by

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[Disability Symbols](#) by NPS Graphics, put together by User:Wcommons Pictograms-nps-accessibility-low\_vision\_access.svg: NPS Graphics, converted by User:ZyMOS Pictograms-nps-accessibility-sign\_language\_interpretation.svg: NPS Graphics, converted by User:ZyMOS Autismbrain.jpg: National Institutes of Mental Health, National Institutes of Health derivative work: Hamiltonham via [Wikimedia Commons](#) is licensed [CC0 Public domain](#) (Slide 7)

"Divider" image by [GDJ](#) from [Pixabay](#) is licensed under [CC0 Public Domain](#) (Slide 31)

"Elderly" image by [Clker-Free-Vector-Images](#) from [Pixabay](#) is licensed [CC0 Public Domain](#) (Slide 3)

"George Washington" image, [Wikimedia Commons](#) is licensed [CC0 Public Domain](#) (Slide 37 & 38)

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