

COSC 360 – Web Programming

Lab 1 – Intro to HTML

Instructions:

1. Download the Lab-1 folder and edit the file lab1.html file to match the image shown at the end of this document:
 - Declare the HTML5 doctype at the top of the file.
 - Set the title attribute of the page to "COSC 360 – Lab 1."
 - **The image files are relative to your html file. When you submit, you will only submit your html file, so it is important to make sure that the files are correctly referenced using relative addressing.**
2. **Use semantic HTML tags appropriately.**
3. Headings must follow semantic ordering (i.e. h1 then h2 then h3 etc.)
4. Separate the body using appropriate semantic html tags (e.g. section, nav)
5. Use <p> tags for paragraphs
6. Item 1-2 - Create a **header** tag (<header>) to contain the heading and nav
 - Add a heading with h1 tag
 - Create a navigation (nav) with links to the different sections in the document
 - Use unordered lists for the nav items
 - Each nav item should correctly link to the section (e.g. introduction should link to introduction section)
7. Create an **article** tag that contains the main content of the document
8. Create a section tag for each section in the article (introduction, endangered-animals, guide, and comments. The section heading must be a h2.
9. Item 3 – 6. Create the `introduction` section for **items 3 to 7**
 - The link to COSEWIC is <https://www.canada.ca/en/environment-climate-change/services/species-risk-public-registry/cosewic-annual-reports/2021-2022.html>
 - The link to COSEWIC should open in a new tab
 - When the image is clicked, it should open a full screen with the image **in the same tab**
 - The image should contain appropriate alt text
 - Use semantic figure & fig caption tags for image and caption
10. Item 7 -The icon images for the social media icons are located in images/social/. The information for each of the icons required is as follows. Ensure to include the correct alternative text for each icon. These images are not required to be hyperlinks.

Email:	email_16.png	alt text: "Email this to someone"
RSS:	rss_16.png	alt text: "Syndicated content"
Twitter:	twitter_16.png	alt text: "Share this on Twitter"
Facebook:	facebook_16.png	alt text: "Share this on Facebook" />
Flickr	flickr_16.png	alt text: "See this on Flickr"
11. Item 8-9 – Create the `endangered-animals` section for **items 8 to 10** as shown in layout image
 - Images dimension should be 120 x 120 px and have appropriate alt text
 - You can use the height and width attributes of the tag, for example

 - Images should link to larger image when clicked (similar to large image)
12. Item 10 - Create a table as shown using table element
13. Item 11 – Create the `guide` section using ordered list

14. Item 12 – Create the `comments` section. Place each individual review in a `div`.
15. Item 13 – create the **footer** for the page with all hyperlinks linking to the homepage using the navigation tag.
16. Note
 - You should only edit the `lab1.html` file.
 - The header tag contains items 1-2.
 - Article tag contains everything from items 3-12.
 - Footer tag should contain item 13.
 - Each section should be in a section tag inside the article (the sections are the same as the titles in the nav). The four sections are: introduction, endangered-animals, guide, and comments.
 - Each section heading should be a `h2`.
17. Test your page by loading `lab1.html` into your browser and see if it looks like the image presented for the page layout. If not, resolve any outstanding issues. While your HTML code may not be exactly the same in terms of sections, etc., the resulting page should visually appear the same with correctly functioning links.
18. Ensure that your links are working correctly to the related photos as well as to the different page sections.
19. **Validate your html** using <https://validator.w3.org> Use the **validate by direct input** and copy in your HTML code. Your code should validate without any errors. If there are issues with the code, resolve them. This may require some exploration of different tags and associated attributes.

What to submit:

Submit your Lab-1 **folder** on Canvas.

The Page Layout:

Your HTML page should appear as follows. Notes regarding specific elements are on the left hand side.

Item 1 - h1

Wildlife Anmials

- Item 2 - Navigation
- [Introduction](#)
 - [Endangered Animals](#)
 - [Protection Guide](#)
 - [Comments](#)

Item 3 – h2

Introduction

Item 4

Wildlife animals are vital to maintaining ecological balance, inhabiting diverse ecosystems like forests, oceans, and grasslands. They face threats from habitat destruction and climate change, making conservation crucial for their survival.

Link should open in new tab

According to [COSEWIC's wildlife assessments](#) as of May 2022, there are 841 wildlife species in various risk categories, including 371 Endangered, 196 Threatened, 253 Special Concern, and 21 Extirpated. In addition, 23 wildlife species have been assessed as Extinct.

Item 5

Use figure element.

Image should open full screen when clicked



A Silvery Molocho gibbon

Item 7

Share: [Twitter](#) [Facebook](#) [LinkedIn](#) [Reddit](#) [Email](#)

Item 8 – h2

Endangered Animals

Here are a few species of famous endangered animals



h3

Comparison of Endangered Species

Item 10 - table

Species	Habitat	Population (Estimate)	Threats	Conservation Status
Bengal Tiger	Forests and Grasslands	~2,500	Poaching, Habitat Loss	Endangered
African Elephant	Savannas and Forests	~415,000	Ivory Trade, Human-Wildlife Conflict	Vulnerable
Green Sea Turtle	Oceans and Beaches	Declining	Bycatch, Plastic Pollution	Endangered
Snow Leopard	Mountainous Regions	~4,000-6,500	Poaching, Habitat Fragmentation	Vulnerable
Vaquita (Porpoise)	Marine (Gulf of California)	<20	Bycatch in Fishing Nets	Critically Endangered

Item 11 - h2

Here are some ways to protect endangered animals

- Item 11 – ordered list
1. Learn about endangered species in your area.
 2. Minimize use of herbicides and pesticides that may lead to amphibian deformities and deaths.
 3. Avoid hunting endangered species for sport
 4. Recycle and buy sustainable products
 5. Volunteer

Item 12 - h2

Comments

By Bob on January 05, 2025

It's sad to see so many species endangered; we need to act now to save them.

horizontal rule

By Alice on December 29, 2024

Great article! Can you suggest places to volunteer?