CANADA LEARNING CODE

Superhero Profiles

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Duration: 60 minutes

LEVEL	SUBJECTS	PROVINCES / TERRITORIES	TOOL
Grades 1-3, 4-6	English Language Arts, Social Studies	Across Canada	HTML & CSS, Thimble X-Ray Goggles

Overview

Learn about HTML by 'hacking' the web! Use Mozilla X-Ray Goggles to take a superhero website and make it feature a new 'hero' such as a role model, historical figure, or character from your favourite book.

Prep Work

- Watch the "Content 101: Mozilla Webmaking Tools" video to learn how Thimble works. (Stop at 03:458): http://bit.ly/content101-videos
- If you don't already have one, create an account for your class at thimble.mozilla.org ("Create an account")
- Review the example project (click "remix" to see inside): http://bit.ly/superhero-profiles-shaq
- Print the Solution Sheet for the main

Key Coding Concepts

✓ Sequences

Terminology

Sequences
Identifying a series of steps for a task. Computers and Scratch read and perform commands in order from top to bottom

Webpage
A web page is a document or hypertext file connected to the World Wide Web that displays information using programming languages.

Hyperlink
A hyperlink or "link" is a link

activity: http://bit.ly/superhero-profiles-solution
- You will need computers and access to the internet for this session

Lesson

First, we need to do some research! Have learners collect information about their chosen book character, historical figure, etc. For example:

- What are they best known for?
- Where did they grow up?
- What was their childhood like?
- What obstacle(s) did they have to overcome?
- How did they do this?
- What is a memorable quote from this person/character?

Review the basic elements of a webpage, or watch the "HTML Basics" (http://bit.ly/html-basics-tags) video together.

Code Along

Show students the example project:

http://bit.ly/superhero-profiles-shaq (Created about Shaquille O'Neal, based off of his autobiography "Shaq Uncut")

Guide learners through installing and using X-Ray Goggles:

- Go to goggles.mozilla.org
- Make sure your bookmark bar is showing (under "View" in the top menu)
- Click and drag the pink X-Ray Goggles

from a hypertext file to another location or file on the World Web Web. Links are what make the Web great because they connect pages together so that we can find them.

HTML
HTML (hypertext markup language) is a language used for tagging or "marking up" text files to achieve font, color, graphics, videos, and links on webpages.

Tag
A tag is a piece of code that specifies how the document or piece of the document should be formatted. Tags have angled brackets, for example <h1> is the top most heading on a webpage.

Curricular Connections

Writing, gathering and organizing ideas, heritage and identity, media literacy

References

"POW" image by Andrew Martin from Pixabay under CC0 Creative Commons licensing.

button into your bookmarks bar
- Test it out - Scroll down to "Sample Activity Page" > Click on the X-Ray Goggles shortcut in your bookmarks bar to activate
- Demonstrate how to highlight, edit, and update elements on the webpage
- Give learners 2 minutes to try to change the heading and paragraph text (Bonus: Try to change an image)

https://pixabay.com/en/pow-comic-comic-book-fight-1601674/

Activity

Have learners go to **bit.ly/superhero-profile**.

Use the Solution Sheet to guide learners through the following steps:
- Activate X-Ray Goggles
- Change the heading
- Change the paragraph text
- Replace the images

Assessment

Learning Outcomes

I can 'hack' websites by editing HTML tags

I can change the text on websites by editing headings and paragraphs

I can replace images using image tags

I can have the power to change my experience on the web

Success Criteria

I used a superhero profile from the marvel website.

I changed the heading to the name of my chosen person/character.

I replaced all of the text on the webpage (from the superhero name to the "read more" link).

I answered all of the questions about my chosen person/character using proper

spelling, punctuation, and grammar.

I replaced at least 2 images with images of my person/character.

Assessment Ideas

Have learners present their websites to the class, or have a Gallery Walk where half of your learners walk around to see other projects, while the other half stay with their computer + website to explain it to others. Switch half way through. Guide learners through editing and revising their work using the CUPS strategy (Capitalization, Usage, Punctuation, Spelling) - before submitting their final version.

Extension

Introduce HTML through play! Before this lesson, plan time for learners to play eraseallkittens.com ("Play Demo"). You may want to create a (free) account for your class which all students can use to sign in, or have them sign up using their individual emails.
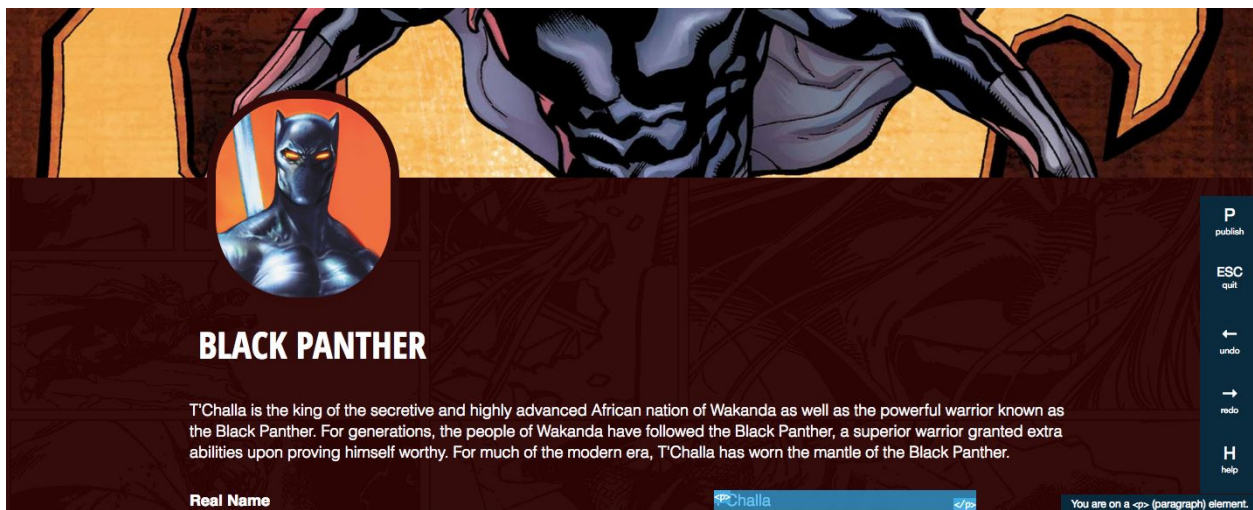
Go through a KWL chart with the class (Know, Want to know, Learned). Ask them what they think they know about websites, and what they want to know. After the lesson, regroup and complete the 'learned' column as well.

Remix a website with more content and options. For example, this Mozilla Thimble Facebook post: thimbleprojects.org/mozillalearning/213492/
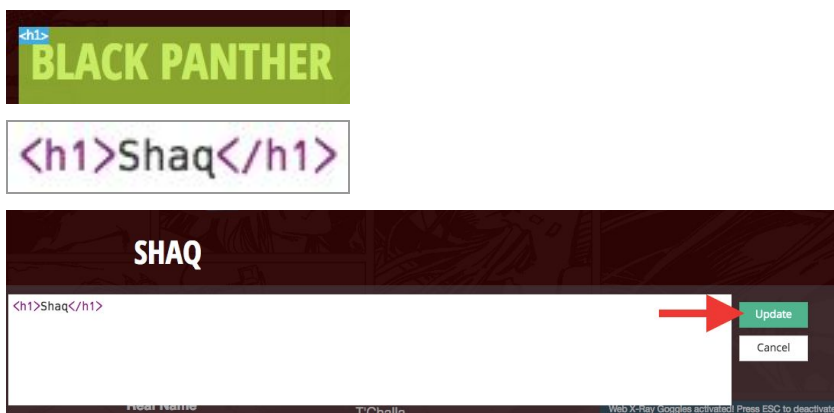
Superhero Profiles

STEP 1: Activate X-Ray Goggles

1. Go to **bit.ly/superhero-profile**
2. Click on the X-Ray Goggles shortcut in your bookmarks bar to activate the tool and get started!

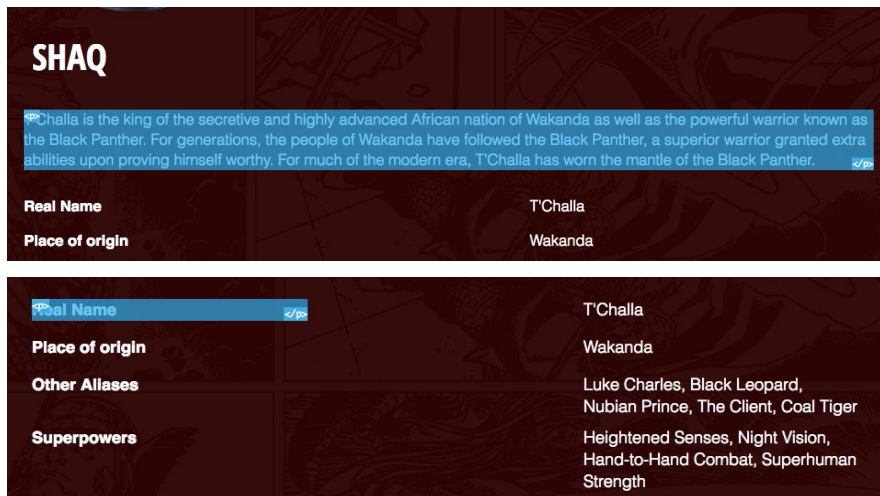## STEP 2: Change the heading

1. Hover over the title (name of the superhero) and click to edit
2. Replace the text in between the <h1> tags with your person/character's name
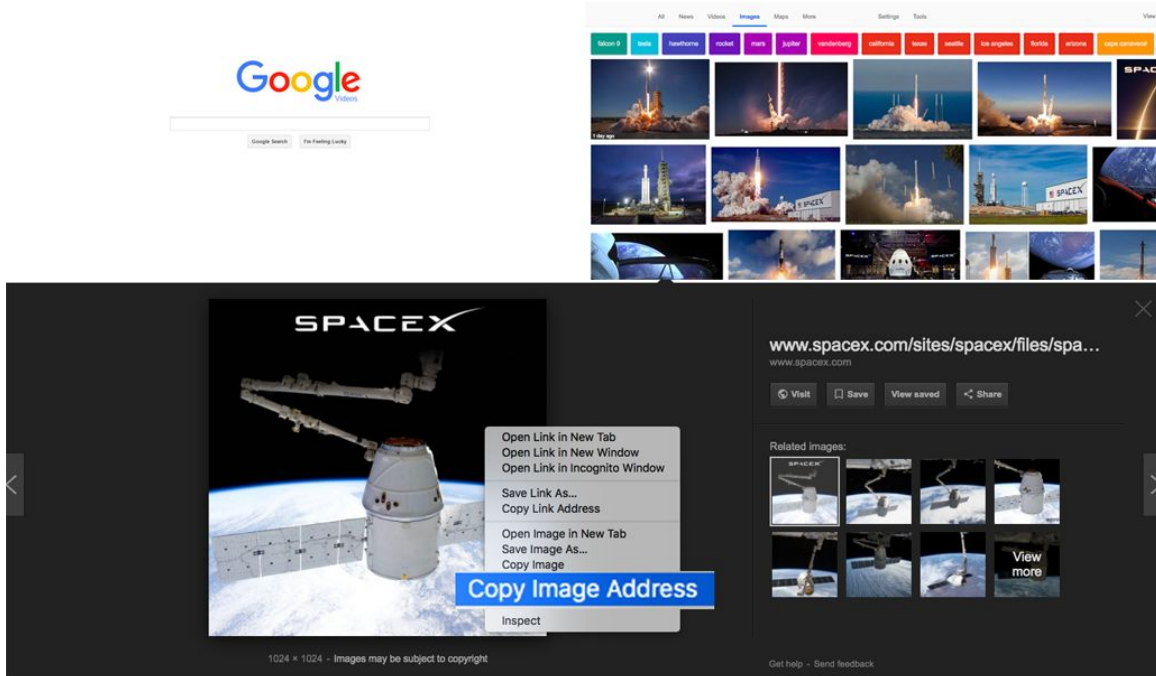3. Click on "Update" to update the page with your changes

STEP 3: Change the paragraph text

1. Hover over the top paragraph and click to edit the <p> tags
2. Change the text in between the <p> tags and click "Update"
3. For each question that learners needed to answer about their person/character, add the question on the left, and the answer on the right.
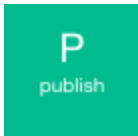

STEP 4: Replace the images

1. Hover over an image and click to edit
2. Notice that there is a URL inside of the <img> tag. This tells the website where the image is from (its source)
3. Find an image! Use Google Search (try to use creative commons images by filtering under Tools > Usage rights > Labeled for reuse)
4. Right-click on the image > "Copy Image Address." This will link directly to the image, instead of the webpage with the image, plus a bunch of other content.
5. Go back to the website you are 'hacking'
6. Replace the url inside of the "quotations" of the <img> tag (see below)

Finished? Share your website!

1. Have learners click on "Publish" and sign in using the class Mozilla Thimble account that you created

2. Once they sign in, have them select "Publish this remix"
3. A link to their project will be displayed. (This is the link they will need to share with you) Click "Check it out!" to view the completed webpage.
4. Have them copy the URL and share it with you online (Twitter, Google Classroom, etc.). It'll be difficult to assess on your own through Mozilla Thimble, as they will all be saved as the same name. Having students share the link with you is definitely recommended!

Solution Sheet created for Canada Learning Code
More info on Mozilla webmaking tools at Mozilla Learning.

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