



# X-Ray Goggles Activity

This activity and resources will help you learn basic concepts of HTML, CSS and the Open Web. You will tinker around with webpages using X-Ray Goggles and remix to make your own webpages. At the same time, you should increase your understanding about an aspect of Climate Change.

[Climate Change Website](#) - GWatson - Kelso High School - Feb 2014



## Description

You will learn the basic concept of "hacking" and begin to explore the building blocks of the web with the X-Ray Goggles. Through the creation of a webpage on an aspect of Climate Change, you will explore the Open Web as well as a bit of HTML and CSS.

## Learning objectives

By the end of this activity you will understand that:

- "Hacking" has always been a key element in the creative process. It is a constructive activity, not a destructive one.
- the Web is made out of **building blocks** that can be rearranged to create new things through a series of simple steps.
- **HTML** is a language used to tell computers how to build webpages so that humans can enjoy them.
- **CSS** means cascading style sheets and can be used to determine how a webpage looks.
- Parts of a webpage include HTML, CSS, graphic content (pictures etc.) and text content
- that an **element** is the combination of an opening and closing tag and the content in between
- There are resources available on the web to help people develop skills in web design.

## Tasks

- 1) Identify a Page you want to Hack
- 2) Research what Text you want on the Page
- 3) Find good Images to go with your Text
- 4) Hack the Page with the Goggles Tool
- 5) Add Links to relevant Sites
- 6) Set up your own Mozilla Persona Log-in
- 7) Publish your Page to the Web

## What you'll make

You will use the [XRay Goggles](#) to make a new webpage that could be included in a website about Climate Change.

## Preparation

Make sure that your computer is set up with a modern web browser. The X-Ray Goggles are easy to install, but to save yourself a few minutes the webpages you will be hacking will have Goggles preinstalled.

However, if you visit the [XRay Goggles](#) homepage you can easily install Goggles on your browser bar so that you will be one click away from "Hacking" any webpage you choose.

You should also set up a [Mozilla Persona](#) Log-in so you are able to Save/Publish your Pages.

## Review

After you have completed this activity it's important to review what you have learnt. Here are some questions you might want to think about.

- What does hacking mean to you? Where can you find examples of hacks?
- What are the basic building blocks of a webpage?
- How does a webpage change when you change one of its parts?
- How important are good images on a webpage?
- How much Text should you have? How should it be placed on a page?
- Why is it important for websites to invite participation?

## Additional Resources

- [HTML Cheatsheet](#)
- [CSS Basic Cheatsheet](#)
- [X-Ray Goggles Cheatsheet](#)

## Hackable Pages

- [A is for ...](#)
- [B is for ...](#)
- [C is for ...](#)
- [D is for ...](#)
- [E is for ...](#)
- [F is for ...](#)
- [G is for ...](#)
- [H is for ...](#)
- [I is for ...](#)
- [J is for ...](#)
- [K is for ...](#)
- [L is for ...](#)
- [M is for ...](#)
- [N is for ...](#)

## Assessment criteria

How well did you demonstrate your ability to:

- Use the browser to view content found on the web.
- Tweak or enter a URL address
- Switch between browser tabs
- Use keyboard shortcuts (i.e. for copying and pasting)
- Right-click and scroll with the mouse
- Use a search engine to look for specific content
- Find the content you were looking for
- Use the Goggles Tool to replace both text and images on a site
- Use Publish to Save your Page at regular intervals
- Recognize HTML and CSS
- Share a hacked page with rest of class and rest of world
- Install the X-Ray Goggles tool on your own browser bar.

- N is for ...
- O is for ...
- P is for ...
- Q is for ...
- R is for ...
- S is for ...
- T is for ...
- U is for ...
- V is for ...
- W is for ...
- X is for ...
- Y is for ...
- Z is for ...

### Limitations

- 1) You can stick to original topic
- 2) You can completely change the topic
- 3) At the moment, Goggles will not allow you to change the video
- 4) If you have a better video, e-mail me its address