

Tutorial Proposal

Overview

The idea is to create a component "VideoLightbox". It combines two effects: Video on the background and the lightbox (Modal Image Gallery). The HTML coders use this component when they would like to show a component that has a background video behind a lightbox. The "w3schools.com" site with "How To" page shows steps clearly to use two effects. This is the following links to effects to create the component:

https://www.w3schools.com/howto/howto_css_fullscreen_video.asp

https://www.w3schools.com/howto/howto_js_lightbox.asp

The functionality of the component

HTML Coders will provide id of the element that contains the displayed video and images, data of video and images when they call the function to create the component. The data of images should be stored in the JSON file.

The function to create the component will proceed the following sections:

- Reading data of video: URL, title, type of video and introduction for the image gallery
- Reading data of images from the data JSON file: URLs and caption of each image
- Generating HTML to show video and images (a background video behind a lightbox)
- Event handling: open / close the modal image gallery, play / pause video, navigate images when the modal image gallery is opened
- Using reasonable CSS

The possible feature of the component

Currently, using the <video> tag makes only three supported video formats for the video element: MP4, WebM, and Ogg. If HTML coders would like to embed the URL youtube video, the component will be improved in the next time whenever there is more development time.