Homework #8

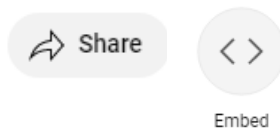## Embedding a YouTube video in a webpage
Due: Fri Dec 8 11:59pm (but accepted up to Fri Dec 22)

This homework requires no prerequisite knowledge and should take no more than 20 minutes to complete. You need access to the Internet.

Name your completed html file as youtube_*your_lastname*, zip it and then drop it in its Drop Box in Brightspace. Your completed html page for this assignment will contain one link to the video and 3 instances of the embedded video.

Topic: Linking to a video on YouTube and embedding the video into a webpage.

At YouTube you will click on the **SHARE** and the **Embed** code button. They look like this.:

A. Insert a link to a video file at YouTube:

1. Open a blank HTML5 page in Komodo Edit. (If not using an HTML editor, be sure to start with the code for a basic HTML5 page template.) Save it as youtube_*your_lastname.* Insert a hyperlink in the body of the page using the a element (tag). Place this inside of the p element. That is, type:

      `<p><a href="____">JavaScript Tutorial</a> video</p>`

2. Now go to www.youtube.com. Click the Search box and type "JavaScript tutorial with Mosh" Or go to the video directly using this link: https://www.youtube.com/watch?v=W6NZfCO5SIk .
The name of the video you want is called "JavaScript Tutorial for Beginners: Learn JavaScript in 1 Hour". If necessary, click the control to stop it from playing.

3. Click the **SHARE** Button located below the video screen. The necessary code will appear in a box. Click "COPY" to make a copy of that code. (Or select the code manually and press Ctrl + C together.)

4. Minimize your window and go back to Komodo Edit and paste the code (Ctrl + V together) as the value of the href attribute, that is, in the blank space appearing in step #1 above. You should now have:

      `<a href="https://youtu.be/W6NZfCO5SIk"> JavaScript Tutorial</a> video`

5. Re-save your file and test the page in a browser.

For B through D, you embed a video in a webpage 3 different ways.

B. Embed the video from YouTube into the web page with **iframe** tag:

1. Go back to the same video. Click on the **SHARE** button again. Then click on the **Embed** code button. Select all the code and COPY it by pressing two keys together -- the ctrl key and the C key. (Ctrl+C on a PC and COMMAND+C on a Mac.)

2. Go back to Komodo Edit, type <p></p>, Then inside the 2 paragraph tags paste the code or press ctrl+V. (Ctrl+V on a PC and COMMAND+V on a Mac). The code you just copied should look like this:

   <p><iframe width="560" height="315" src="https://www.youtube.com/embed/W6NZfCO5SIk?si=xN7RYFrB6Z4d-rt1" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe></p>

Tip: At this point, you may want to turn on word wrap in Komodo Edit. It is in the View menu.

3. Re-save your file and test the page in a browser.

C. Embed the video into the web page using the **embed** tag:

1. Now try the <embed> tag. Select and copy of the previous code above using iframe, and including the p tags and paste it below your current code. Press Ctrl+V together to paste. (COMMAND+V on a Mac.) Now **replace** the tag named "iframe" with the tag named "embed" in both the opening and closing tags. The code should look like this:

<p><embed width="560" height="315" src="https://www.youtube.com/embed/W6NZfCO5SIk?si=xN7RYFrB6Z4d-rt1" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></embed></p>

2. Re-save your file and test the page in a browser. Preview in an *external* browser this time.

D. Embed the video into the web page using with the **object** tag:

1. Now try the <object> tag. Again, make a copy of the previous code above using embed, and including the p tags and paste it below your current code. Press ctrl+V to paste. (COMMAND+V on a Mac.) **Replace two things**: 1) **Replace** the tag named "embed" with the tag named "object" in both the opening and closing tags. And (2) also **replace** the "src" attribute with the "data" attribute. The code should look like this:

<p><object width="560" height="315" data="https://www.youtube.com/embed/W6NZfCO5SIk?si=xN7RYFrB6Z4d-rt1" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></object></p>

2. Re-save your file and test the page in a browser. You should now have one link and 3 embedded videos.

E. If you encountered a problem getting the video to render in the page, (in at least one browser), describe this problem in a sentence or two. Enclose your sentence in a p element (paragraph) in the same web page.