Assignment #6: Multimedia on the Web

1. **Adding multimedia in a website (70%)**

\*\* This is from HTML, XHTML, and XML, Patrick Carey \*\*

The following [zip file](https://dl.dropboxusercontent.com/u/4197282/Web%20Technologies/data.zip) contains the data files needed for this exercise: Cmplx.class, Controls.class, flogo.jpg, FracPanel.class, fracttxt.htm, mandel.avi, Mandel.class, mandel.jpg, mandel.mov, taken from HTML, XHTML, and XML book.

Save the file into a directory called Asignment6 under your course website. Unzip to find all the data files you need.

Here are the instructions.

Fractals are geometric objects discovered by mathematicians that closely model the sometimes chaotic world of nature. Doug Hefstadt, a mathematics teacher at Franklin High School has just begun a unit on fractals for his senior maths class. He's used the topic of fractals to construct a Web page to be placed on the school network, and he needs your help to complete the Web page. He has a video clip of a fractal that he wants placed on the Web page, along with a Java applet that allows students to interactively explore the Mandelbrot Set, a type of fractal object. He wants your assistance in putting these two objects on his Web page.

* To create the fractal Web page open fracttxt.htm from the Assignment6 folder. Enter your name and the date in the comment section of the file and save the file as fractal.html.
* Locate the div element with the id "movie" and insert the embedded movie clip mandel.avi. Then set the size of the video clip to 104 pixels wide by 120 pixels high. Set the clip not to start automatically.
* For browsers that do not support embedded media clips, display a link to the mandel.avi and mandel.mov files. Be sure to indicate the size of the video file as well as the format. Hint: Use the [noembed tag](http://www.htmlcodetutorial.com/embeddedobjects/_NOEMBED.html).
* Locate the div element with the id "applet" and insert a Java applet for the Mandel.class file.
* Set the size of the applet to 350 pixels wide by 280 pixels high.
* For browsers that do not support Java applets, display the text "Your browser does not support Java applets".
* Open the Web page in your Web browser and verify that the video and applet play correctly, you may need to make some adjustments (e.g., resize the space allocated to the apple).

1. **Adding two-way form to your web page (30%)**

Design and build a web page with a form to collect requests from potential students for information on the IT2805 Web Technology course.

We need the following information collected: name of prospective student, their email, optional address, optional contact phone number, type of student (1st Year-Freshman, 2nd Year-Sophmore, 3rd Year-Junior, 4th Year-Senior), expected start date, and any special requests or comments.

The classes available are: HTML Basics, URLs and Site Structures, Introduction to the Cascading Style Sheets (CSS), CSS Properties and Applications, Working with Multimedia on the Web, Introduction to JavaScript, JavaScript: DOM and XML: Formatting Namespace Trees. Students can be interested to participate in as many classes as they want.

Please use an appropriate type of input tool for each piece of information: input text box, radio buttons, check boxes, text areas etc.

Also use labels and other HTML layout controls to make the page convenient and straightforward to use.

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For your Project final submission, you should start forming into groups if you prefer to work in pairs.

Read the project page and the detailed project information to find out what is required for the project.

Study for the forthcoming midterm test.

With our study so far, you should be comfortable at:

* converting relative URLs into absolute URLs;
* the use of <a name=""> and <a href="">;
* writing simple HTML pages using <h1> ... <h6>, <p>, <table>, <img>, <a>, <ul>, <ol> and <dl>, without having to refer to a reference;
* Incorporating CSS into HTML documents and be able to use sensible type of style sheets for site, page and inline content presentation.
* Writing style sheets using simple class selectors, id selectors, element selectors and pseudo-class selectors.
* Using the basic form controls such as textbox, selection list, check box and radio buttons.

The midterm test will contain short answer questions for explaining basic concepts and some questions on HTML and CSS coding.

**Submit Assignment6**

All the exercises should be saved under the respective directory, the main file with all the exercises (e.g., [www.idi.ntnu.no/~studentname/coursepage/assignment6](http://www.idi.ntnu.no/~studentname/coursepage/assignment6)) should be zipped and uploaded to the itslearning before the due date.