HTML

Facilitator: Johnson didinya

Email: jdidinya@cytonn.com





HTML GRAPHICS

HTML canvas

HTML element <canvas> gives you an easy and powerful way to draw graphics using JavaScript . It can also be used to draw graphs , make photo composition or do simple animations .

The <canvas> is initially blank and to display something , a script first need to access the rendering context and draw on it .It has a DOM element called **getContext** used to obtain the rendering context and its drawing functions. This function takes one parameter , the type of context2d.

Below is a simple canvas to draw rectangle.





HTML CANVAS

```
<script type = "text/javascript">
     function drawShape() {
        // Get the canvas element using the DOM
        var canvas = document.getElementById('mycanvas');
        // Make sure we don't execute when canvas isn't
             supported
        if (canvas.getContext) {
           // use getContext to use the canvas for drawing
           var ctx = canvas.getContext('2d');
           // Draw shapes
           ctx.fillRect(25,25,100,100);
           ctx.clearRect(45,45,60,60);
           ctx.strokeRect(50,50,50,50);
        } else {
           alert('You need Safari or Firefox 1.5+ to see
                this demo.');
  </script>
</head>
<body id = "test" onload = "drawShape();">
  <canvas id = "mycanvas"></canvas>
</body>
```





HTML MEDIA

Multimedia elements such as audio or video comes are stored in media files. They have formats and different extensions such

```
as .swf , .wav , .mp3 , .mp4 , .mpg , .avi .
```

The HTML elements <audio> and <video> tags makes it simple to add media to a website.

Embedding Video

Below is a simple example to embed video;

HTML <video> tag can also have various attributes to control look and feel and various functionalities of control as illustrated below;





HTML audio and video attributes

Autoplay Enable a video to automatically begin to play.

Autobuffer Video automatically begin buffering even if it's not set to

automatically play

Controls Allows user to control video playback including volume

Loop Allow video to automatically seek back to the start after reaching

at the end

Preload Specifies that the video will be loaded at page load and ready to

run

Poster It's the URL of an image to show until the users plays

src The URL of the video to embed





HTML APIS

HTML geolocation API is used to locate user's location .The getCurrentUserLocation() is the method used to return the user's location. It also returns an object on success. The latitude , longitude and accuracy properties are always returned. Other methods such as watchPosition() returns current user location and return updated position as the user moves . example to illustrate geolocation is as below;





HTML APIS

```
<button onclick="getLocation()">Try It</button>
<script>
var x = document.getElementById("demo");
function getLocation() {
    if (navigator.geolocation) {
       navigator.geolocation.getCurrentPosition(showPosition);
    } else {
       x.innerHTML = "Geolocation is not supported by this
browser.";
}
function showPosition(position) {
   x.innerHTML = "Latitude: " + position.coords.latitude +
    "<br>Longitude: " + position.coords.longitude;
</script>
```





HTML REVISION EXCERCISE

- Create a simple html geolocation API to request users to show their location and display latitude and longitude
- Draw a linear gradient in a rectangle to demonstrate html graphics





HTML RESOURCES

- https://www.w3schools.com/graphics/
- https://developer.mozilla.org/en-US/docs/Learn/JavaScript/
 Client-side_web_APIs/Drawing_graphics
- https://learn.shayhowe.com/html-css/adding-media/
- https://developer.mozilla.org/en-US/docs/Learn/HTML/
 Multimedia_and_embedding/Video_and_audio_content





General Exercise

Develop a basic web page using the HTML tags you learned in class. Use the diagram below to design html page. Append a html form to input contact person details i.e Name, email, and contact number .Also, include a form to display list of contact persons.





LOGO

And a little tagline, too.

Home

About

Portfolio

Contact

Lorem ipsum, Dolor sit

Nullam vulputate felis id odio interdum nec malesuada mi pretium.

Praesent luctus egestas nisl, vitae vehicula eros rhoncus vel. Phasellus consequat arcu eu neque convallis eu vulputate diam vehicula. In eget venenatis nisl. Vestibulum id nulla eu sapien pellentesque malesuada pharetra ac lacus. Curabitur et ultricies quam. Aenean pretium aliquet velit, gravida vulputate urna tempus vel.

Proin tempor erat sit amet nisl porta nec vulputate arcu imperdiet. Praesent luctus egestas nisl, vitae vehicula eros rhoncus vel. Phasellus consequat arcu eu neque convallis eu vulputate diam vehicula. In eget venenatis nisl. Vestibulum id nulla eu sapien pellentesque malesuada pharetra ac lacus. Curabitur et ultricies quam. Aenean pretium aliquet velit, gravida vulputate urna tempus vel. Proin tempor erat sit amet nisl porta nec vulputate arcu imperdiet.

Latest Updates

Vestibulum id nulla eu sapien pellentesque June 1, 2009

Ut vel turpis a orci pulvinar tincidunt. Mauris id purus turpis. Aliquam metus arcu, facilisis quis pellentesque vitae, dapibus non nulla. Nulla suscipit sagittis sodales. Etiam laoreet ante in purus laoreet id malesuada dui pretium. Read More

Vestibulum id nulla eu sapien pellentesque

June 1, 2009

Ut vel turpis a orci pulvinar tincidunt. Mauris id purus turpis. Aliquam metus arcu, facilisis quis pellentesque vitae, dapibus non nulla. Nulla suscipit sagittis sodales. Etiam laoreet ante in purus laoreet id malesuada dui pretium. Read More

Subscribe!

Subscribe via RSS Get Email Updates Follow us on Twitter

Popular Items

Lorem ipsum dolor site amet Ulvinar tincidunt, Mauris id Lorem ipsum dolor site amet Proin tempor erat sit tene

Contributors

John Smith, freelance writer Jack McCoy, designer Lenny Briscoe, editor John Smith, martketing

Join Our Team

Copyright © 2009 PSDTuts All Rights Reserved



