

HTML5 CANVAS - DRAWING QUADRATIC CURVES

http://www.tutorialspoint.com/html5/canvas_drawing_quadratic.htm

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There are following methods required to draw quadratic curve on the canvas –

Sr.No.	Method and Description
1	beginPath This method resets the current path.
2	moveTo <i>x, y</i> This method creates a new subpath with the given point.
3	closePath This method marks the current subpath as closed, and starts a new subpath with a point the same as the start and end of the newly closed subpath.
4	fill This method fills the subpaths with the current fill style.
5	stroke This method strokes the subpaths with the current stroke style.
6	quadraticCurveTo <i>cpx, cpy, x, y</i> This method adds the given point to the current path, connected to the previous one by a quadratic Bezier curve with the given control point.

The x and y parameters in quadraticCurveTo method are the coordinates of the end point. cpx and cpy are the coordinates of the control point.

Example

Following is a simple example which makes use of above mentioned methods to draw a Quadratic curves.

```
<!DOCTYPE HTML>
<html>
  <head>
    <style>
      #test {
        width: 100px;
        height:100px;
        margin: 0px auto;
      }
    </style>
    <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.beginPath();

    ctx.moveTo(75, 25);
    ctx.quadraticCurveTo(25, 25, 25, 62.5);

    ctx.quadraticCurveTo(25, 100, 50, 100);
    ctx.quadraticCurveTo(50, 120, 30, 125);

    ctx.quadraticCurveTo(60, 120, 65, 100);
    ctx.quadraticCurveTo(125, 100, 125, 62.5);

    ctx.quadraticCurveTo(125, 25, 75, 25);
    ctx.stroke();
}

else {
    alert('You need Safari or Firefox 1.5+ to see this demo.');
```

The above example would draw following shape –

