createRadialGradient() METHOD IN HTML5 CANVAS

- The **createRadialGradient()** method is used to create a radial and circular gradient object.

- The gradient gets applied to rectangles, circles, lines, text, etc.,

Syntax for createRadialGradient() method in HTML Canvas:

Context.**createRadialGradient**(x0,y0,r0,x1,y1,r1);

Parameter Values:

Parameter	Description
x0	The starting circle of the gradient is X-axis
y0	The starting circle of the gradient is Y-axis
r0	Radius of the start circle
y1	The ending circle of the gradient is Y-axis
r1	Radius of the end circle

Sample Coding for createRadialGradient() method in HTML Canvas:

```html
<!DOCTYPE html>
<html>
<body>
  <h2>Wikitechy Canvas</h2>
  <canvas id="wikitechyCanvas" width="300" height="150"
   style="border:1px solid #d3d3d3;"></canvas>
  <script>
  var c = document.getElementById("wikitechyCanvas");
  var wiki = c.getContext("2d");
  var grd = wiki.createRadialGradient(75, 50, 5, 90, 60, 100);
  grd.addColorStop(0, "red");
  grd.addColorStop(1, "blue");
  wiki.fillStyle = grd;
  wiki.fillRect(20, 20, 150, 100);
  </script>
</body>
</html>
```
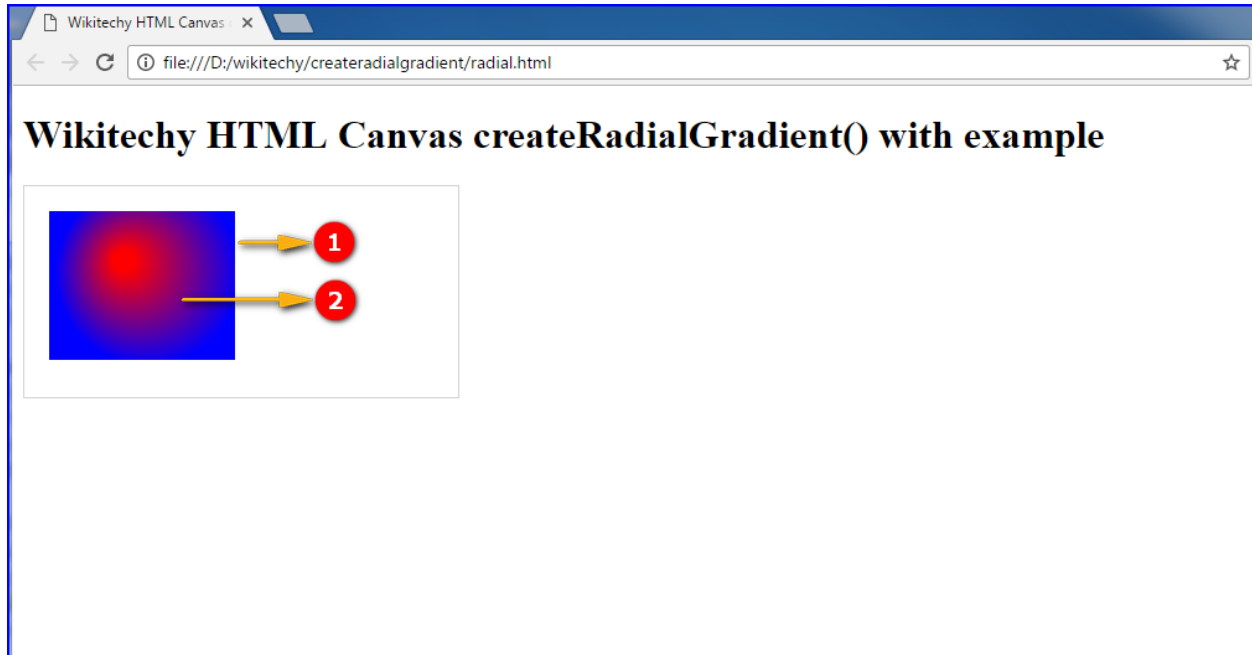
Code Explanation for createRadialGradient() method in HTML Canvas:

```html
<!DOCTYPE html>
<html>
<body>
    <h2>Wikitechy Canvas</h2>
    <canvas id="wikitechyCanvas" width="300" height="150"
     style="border:1px solid #d3d3d3;"></canvas>
    <script>
    var c = document.getElementById("wikitechyCanvas");
    var wiki = c.getContext("2d");                          1
    var grd = wiki.createRadialGradient(75, 50, 5, 90, 60, 100);
    grd.addColorStop(0, "red");          2
    grd.addColorStop(1, "blue");
    wiki.fillStyle = grd;          3
    wiki.fillRect(20, 20, 150, 100);
    </script>
</body>
</html>
```

1. The **createRadialGradient**() method creates a radial gradient with given parameters.

2. The **addColorStop()** method to define a new stop position of the gradient object.

3. Here the **fillStyle** is used to fill the color as a gradient in HTML Canvas.

Output for createRadialGradient()method in HTML Canvas:

1. The color "**blue**" is shown inside the rectangle in HTML Canvas.

2. The color "**red**" is displayed in the output, which indicates gradient circle in Canvas

Browser Support for createRadialGradient()method in HTML Canvas:

Browser	Language attribute
Chrome	Yes
Internet explorer / Edge(9.0)	Yes
Firefox	Yes
Safari	Yes
Opera	Yes

Tips and Notes

- strokeStyle or fillStyle properties use the values as gradient Object.
- The Procedure of addColorStop() method to use different colors, and to define a new stop position.