COMP303 Internet Computing
SVG Gradient Examples

01_linear_gradient1.svg

```
<svg width="1000" height="800">
<!-- This shows a simple linear gradient with two control points -->
<defs>
<linearGradient id="gradient1">
    <stop offset="0" style= "stop-color:white"/>
    <stop offset="1" style= "stop-color:black"/>
</linearGradient>
</defs>
<rect style="fill:url(#gradient1)" width="1000" height="800" />
</svg>
```
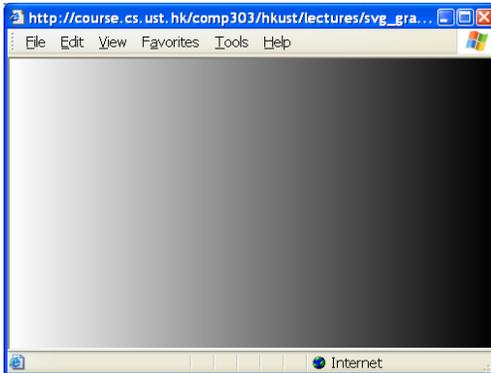

02_linear_gradient2.svg

```
<svg width="1000" height="800">
<!-- This shows a linear gradient with three control points -->
<defs>
<linearGradient id="gradient1">
    <stop offset="0"   style= "stop-color:white"/>
    <stop offset="0.5" style= "stop-color:black"/>
    <stop offset="1"   style= "stop-color:white"/>
</linearGradient>
</defs>
<rect style="fill:url(#gradient1)" width="1000" height="800" />
</svg>
```

03_linear_gradient3.svg

```
<svg width="1000" height="800">
<!-- This gradient shows a rainbow using linear gradients -->
<defs>
<linearGradient id="gradient1">
    <stop offset="0.05" style= "stop-color:red"/>
    <stop offset="0.15" style= "stop-color:orange"/>
    <stop offset="0.3"  style= "stop-color:yellow"/>
    <stop offset="0.45" style= "stop-color:green"/>
    <stop offset="0.60" style= "stop-color:blue"/>
    <stop offset="0.75" style= "stop-color:indigo"/>
    <stop offset="0.9"  style= "stop-color:violet"/>
</linearGradient>
</defs>
<rect style="fill:url(#gradient1)" width="1000" height="800" />
</svg>
```

04_linear_gradient4.svg

```
<svg width="1000" height="800">
<!-- This gradient shows control points which are unevenly distributed
-->
<defs>
<linearGradient id="gradient1">
    <stop offset="0"   style= "stop-color:red"/>
    <stop offset="0.2" style= "stop-color:lime"/>
    <stop offset="1"   style= "stop-color:violet"/>
</linearGradient>
</defs>
<rect style="fill:url(#gradient1)" width="1000" height="800" />
</svg>
```
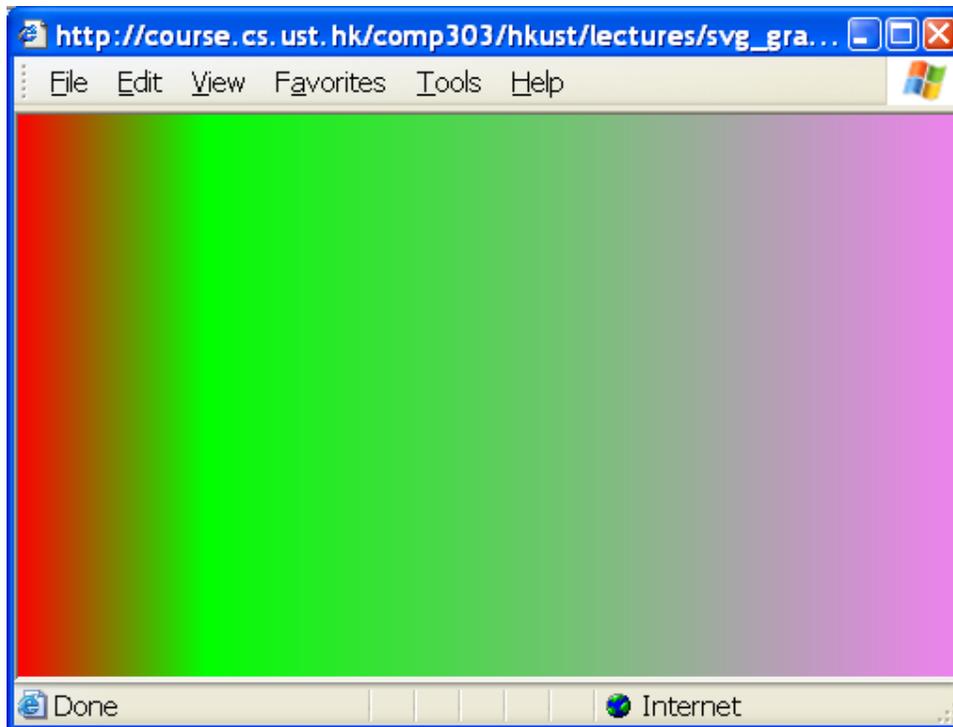
05_linear_gradient5.svg

```
<svg width="1000" height="800">
<!-- This example shows the use of x1, y1, x2, y2
     in order to set the start position (x1, y1) and end
     position (x2, y2) of the gradient. Here we set the
     start position to be the top left hand corner (0%, 0%)
     and the end position to be the bottom right hand corner
     (100%,100%).
-->
<defs>
<linearGradient id="gradient1" x1="0%" y1="0%" x2="100%" y2="100%">
        <stop offset="0"  style= "stop-color:red"/>
     <stop offset="0.5" style= "stop-color:black"/>
     <stop offset="1"  style= "stop-color:violet"/>
</linearGradient>
</defs>
<rect style="fill:url(#gradient1)" width="1000" height="800" />
</svg>
```
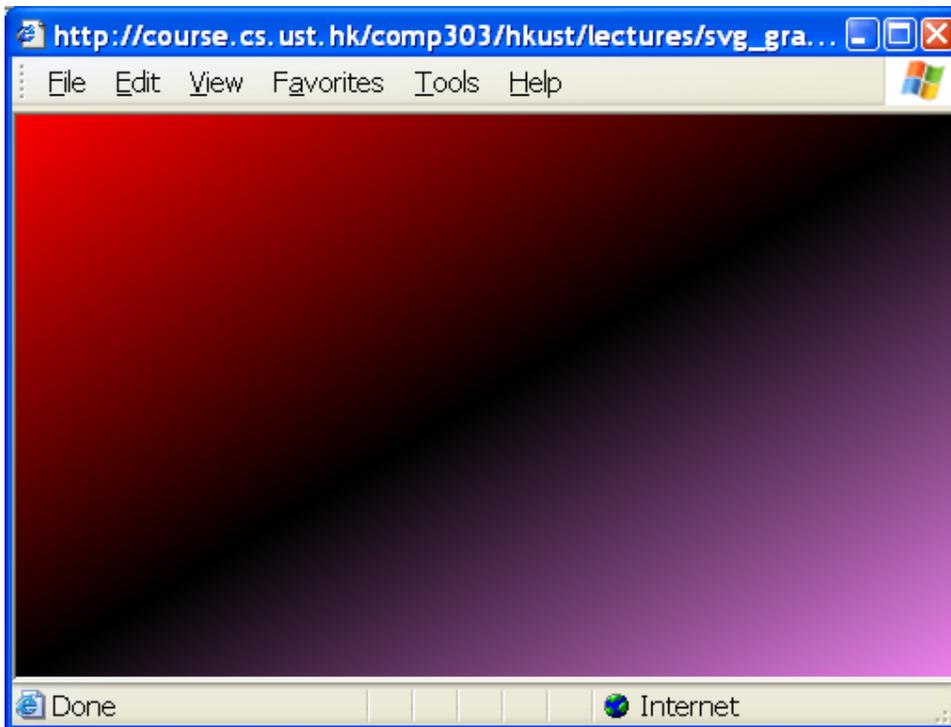
06_radial_gradient1.svg

```
<svg width="1000" height="800">
<!--
This example shows a simple radial gradient
-->
<defs>
<radialGradient id="gradient1">
    <stop offset="0" style= "stop-color:white"/>
    <stop offset="1" style= "stop-color:black"/>
</radialGradient>
</defs>
<rect style="fill:url(#gradient1)" width="1000" height="800" />
</svg>
```


07_radial_gradient2.svg

```
<svg width="1000" height="800">
<!--
This example shows a radial gradient using three
control points (white, black, then white again)
-->
<defs>
<radialGradient id="gradient1">
    <stop offset="0"   style= "stop-color:white"/>
    <stop offset="0.5" style= "stop-color:black"/>
    <stop offset="1"   style= "stop-color:white"/>
</radialGradient>
</defs>
<rect style="fill:url(#gradient1)" width="1000" height="800" />
</svg>
```
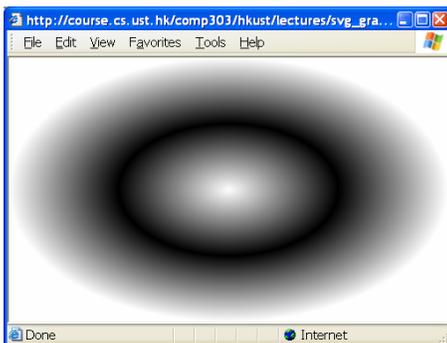
08_radial_gradient3.svg

```
<svg width="1000" height="800">
<!-- This radial gradient shows a rainbow -->
<defs>
<radialGradient id="gradient1">
    <stop offset="0.05" style= "stop-color:red"/>
    <stop offset="0.15" style= "stop-color:orange"/>
    <stop offset="0.3"  style= "stop-color:yellow"/>
    <stop offset="0.45" style= "stop-color:green"/>
    <stop offset="0.60" style= "stop-color:blue"/>
    <stop offset="0.75" style= "stop-color:indigo"/>
    <stop offset="0.9"  style= "stop-color:violet"/>
</radialGradient>
</defs>
<rect style="fill:url(#gradient1)" width="1000" height="800" />
</svg>
```
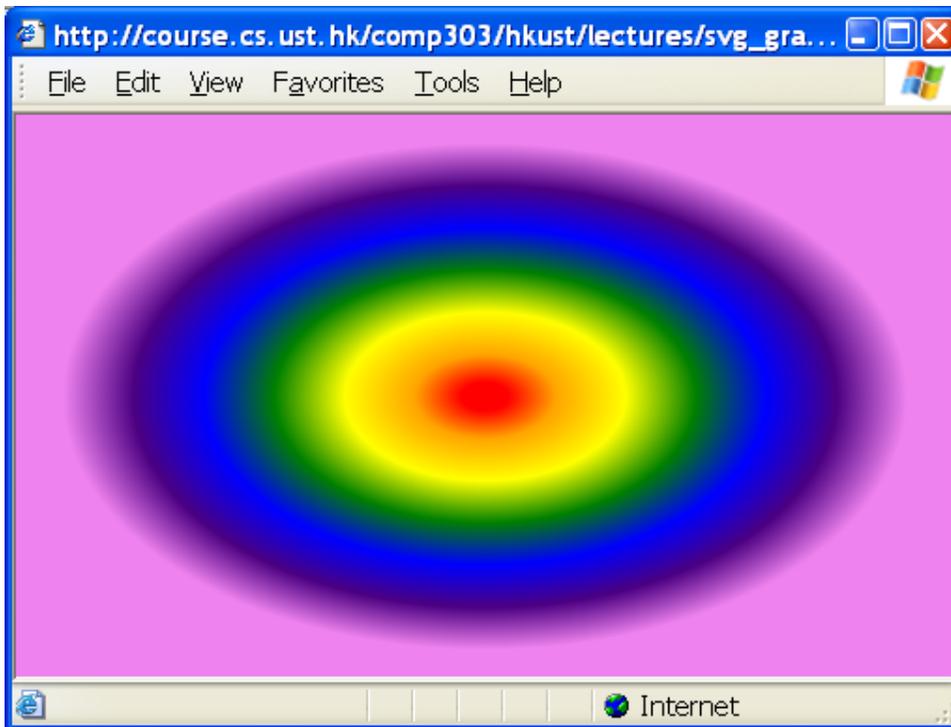
# 09_radial_gradient4.svg

```
<svg width="1000" height="800">
<!-- This radial gradient shows control points which are unevenly
distributed -->
<defs>
<radialGradient id="gradient1">
    <stop offset="0"   style= "stop-color:red"/>
    <stop offset="0.2" style= "stop-color:lime"/>
    <stop offset="1"   style= "stop-color:violet"/>
</radialGradient>
</defs>
<rect style="fill:url(#gradient1)" width="100" height="800" />
</svg>
```
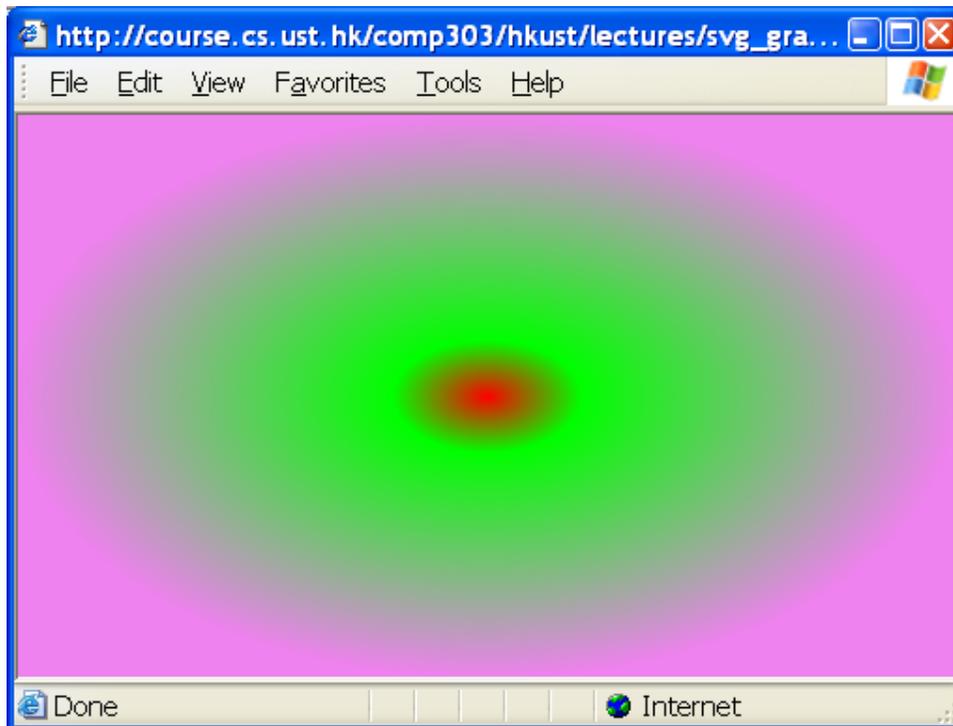
10_radial_gradient5.svg

```
<svg width="1000" height="800">
<!-- This example shows the use of cx, cy and r in radial gradient
     in order to set the center point and the radius
-->
<defs>
<radialGradient id="gradient1" cx="40%" cy="30%" r="100%">
    <stop offset="0"   style= "stop-color:red"/>
    <stop offset="0.5" style= "stop-color:black"/>
    <stop offset="1"   style= "stop-color:violet"/>
</radialGradient>
</defs>
<rect style="fill:url(#gradient1)" width="1000" height="800" />
</svg>
```

11_radial_gradient6.svg

```
<svg width="1000" height="800">
<!-- This example shows the use of cx, cy and r together with
    fx and fy to produce a warped radius effect.
    Here the circle starts at (fx, fy)
    The final circle has the center at (cx, cy) and the radius r
-->
<defs>
<radialGradient id="gradient1" cx="20%" cy="30%" r="80%" fx="60%" fy="60%">
    <stop offset="0"  style= "stop-color:black"/>
    <stop offset="1"  style= "stop-color:white"/>
</radialGradient>
</defs>
<rect style="fill:url(#gradient1)" width="1000" height="800" />
<ellipse style="fill:none; stroke:red;" cx="20%" cy="30%" rx="80%" ry="80%"/>
<circle style="fill:red; stroke:red;" cx="60%" cy="60%" r="2"/>
</svg>
```