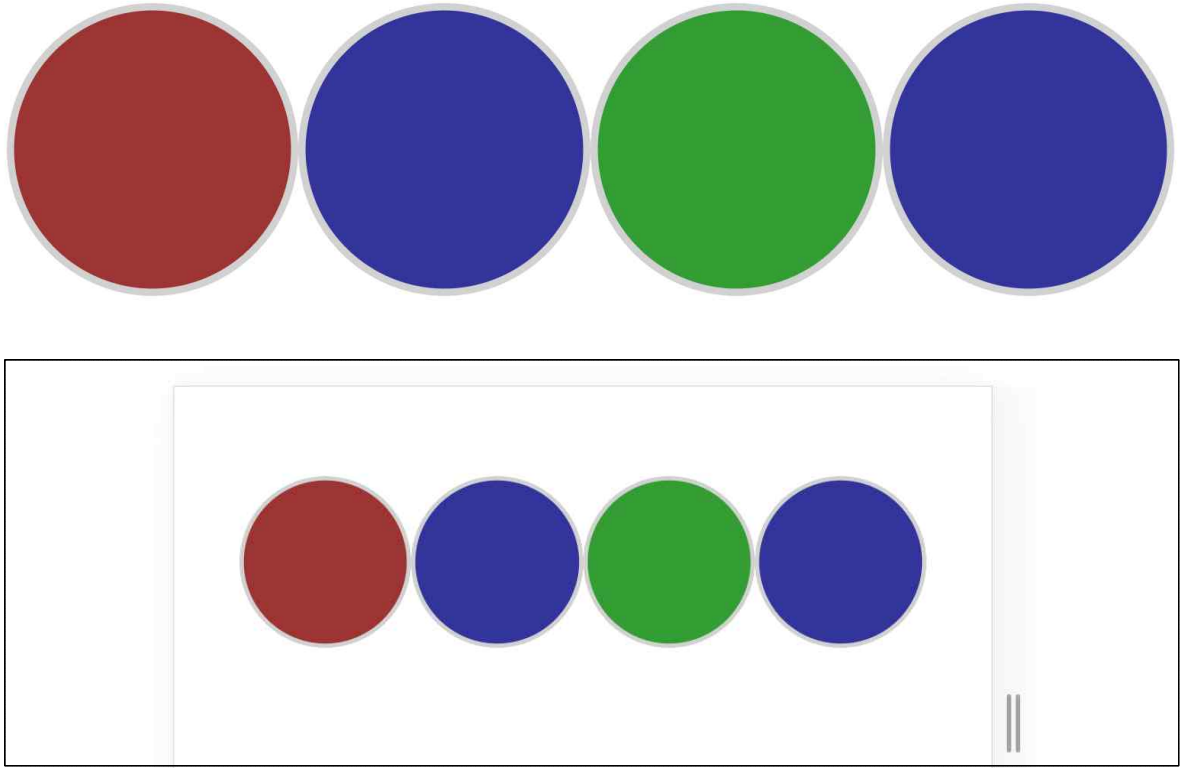
반응형 SVG

- 배경색상 그라디언트 적용 애니메이션 -



HTML5코딩

////////////////////

```
<section id='section1'>
<div>
<ul>

<li>
<div>
	<svg>
		<symbol>
			<!-- 채우기 그라디언드 애니메이션		-->
			<defs>
				<linearGradient id='gradient1' gradientTransform='rotate(0)'>
					<stop offset='0%'  stop-color='#933'>
						<animate begin='0s' dur='1s' attributeName='offset' fill='freeze' from='0' to='1'>
					</stop>
					<stop offset='100%' stop-color='#fff'>
						<animate begin='0s' dur='1s' attributeName='offset' fill='freeze' from='0' to='1'>
					</stop>
				</liearGradient>
				<linearGradient id='gradient2' gradientTransform='rotate(90)'>
					<stop offset='0%'   stop-color='#339'>
						<animate begin='0s' dur='1s' attributeName='offset' fill='freeze' from='0' to='1'>
					</stop>
					<stop offset='100%' stop-color='#fff'>
						<animate begin='0s' dur='1s' attributeName='offset' fill='freeze' from='0' to='1'>
					</stop>
				</liearGradient>
				<linearGradient id='gradient3' gradientTransform='rotate(0)'>
					<stop offset='0%'   stop-color='#fff'>
						<animate begin='0s' dur='1s' attributeName='offset' fill='freeze' from='1' to='0'>
					</stop>
					<stop offset='100%' stop-color='#393'>
						<animate begin='0s' dur='1s' attributeName='offset' fill='freeze' from='1' to='0'>
					</stop>
				</liearGradient>
				<linearGradient id='gradient4' gradientTransform='rotate(90)'>
					<stop offset='0%'   stop-color='#fff'>
						<animate begin='0s' dur='1s' attributeName='offset' fill='freeze' from='1' to='0'>
					</stop>
```

```
                                        <stop offset='100%' stop-color='#339'>
                                                <animate begin='0s' dur='1s' attributeName='offset' fill='freeze' from='1' to='0'>
                                        </stop>
                                </liearGradient>
                        </defs>

                        <circle id='circle1'>
                        <circle id='circle2'>
                        <circle id='circle3'>
                        <circle id='circle4'>
                </symbol>
                <use xlink:href='#circle1'>
        </svg>
</div>
</li>
<li>
<div>
        <svg>
                <use xlink:href='#circle2'>
        </svg>
</div>
</li>
<li>
<div>
        <svg>
                <use xlink:href='#circle3'>
        </svg>
</div>
</li>
<li>
<div>
        <svg>
                <use xlink:href='#circle4'>
        </svg>
</div>
</li>

</ul>
</div>
</section>

<script src='./js/svgResponse.js'></script>
```

CSS3코딩

//////////////////

```
@charset "utf-8";

#section1 { padding:100px 0; }
#section1 div { width:100%; text-align:center; }
#section1 div ul { display:inline-block; }
#section1 div ul li { float:left; width:400px; height:400px; }
#section1 div ul li div { width:100%;  height:100%; }
#section1 div ul li div svg { width:100%; height:100%; }
#section1 div ul li div svg circle          { r:195px; cx:50%; cy:50%; stroke-width:10px; }
#section1 div ul li div svg circle#circle1 { fill:url(#gradient1); stroke:#ccc;  }
#section1 div ul li div svg circle#circle2 { fill:url(#gradient2); stroke:#ccc;  }
#section1 div ul li div svg circle#circle3 { fill:url(#gradient3); stroke:#ccc;  }
#section1 div ul li div svg circle#circle4 { fill:url(#gradient4); stroke:#ccc;  }
```

JAVASCRKPT & JQUERY코딩

////////////////////

```
(function($, window, document, undefined){
	//0. 창너비구하기 winW = $(window).innerWidth();
	//1. 400픽셀의 전체너비에서 비율계산(boxRate) = 비율구하기
	//1-2 10px의 테두리두께비율계산(strokeRate) = 비율구하기 = 10/400 //0.025
	//1-3 stroke-width:테두리비율*박스너비
	//2. #section1 ul li : 너비(boxW) = 창너비*비율
	//3. #section1 ul li : css({width:너비(boxW), height:너비(boxW)})
	//4. 반응형 함수제작
	//5. 반응형 적용 : window .resize() 이벤트에 적용
	//6. 스타일의 속성(Attribute)중 cx:50%, cy:50% 설정변경 백분율로 반드시


	var winW      = $(window).innerWidth();
	var boxRate   = 400/1903; //제작당시 최적화 너비의 고정값으로 비율계산 0.21019443(약 21.02%)
	var strokeRate   = 10/400; //제작당시 최적화 너비의 고정값으로 비율계산 0.025(약 2.5%)
	var boxWidth = winW * boxRate;
	var strokeWidth = boxWidth*strokeRate;

		$('#section1 div ul li').css({ width:boxWidth, height:boxWidth });
		$('circle').css({ r:((boxWidth*0.5)-(strokeWidth*0.5)), cx:(boxWidth*0.5), cy:(boxWidth*0.5), strokeWidth:(strokeWidth) });


		function svgResizeFn(){
			winW      = $(window).innerWidth();
			boxRate   = 400/1903; //제작당시 최적화 너비의 고정값으로 비율계산 0.21019443
			strokeRate   = 10/400;
			boxWidth = winW * boxRate;
			strokeWidth = boxWidth*strokeRate;

			$('#section1 div ul li').css({ width:boxWidth, height:boxWidth });
			$('circle').css({ r:((boxWidth*0.5)-(strokeWidth*0.5)), cx:(boxWidth*0.5), cy:(boxWidth*0.5), strokeWidth:(strokeWidth) });
		}
```

```
		svgResizeFn();
		setTimeout(svgResizeFn,100);


		$(window).resize(function(){
			svgResizeFn();
			setTimeout(svgResizeFn,100);
		});


})(jQuery, window, document);
//svgResponse.js
```