Łukasz Zawodziński gr. 3 nr Indexu: 136699

# Interaktywna grafika i prezentacja danych

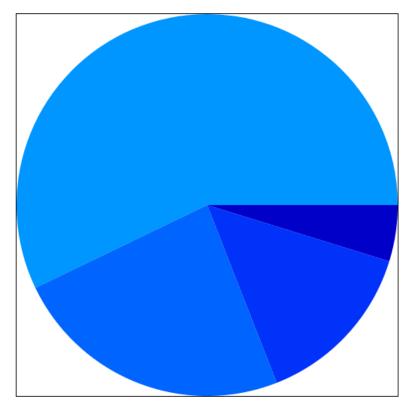
# Laboratorium 6

Podstawy obsługi Canvas

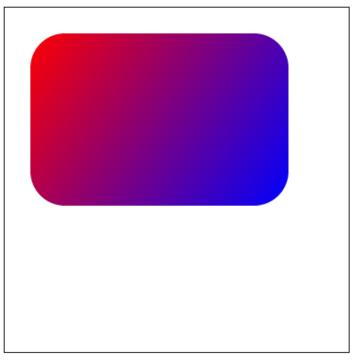
```
for (let i = 0; i < 100; i++) {
    const x = i * szerokosc;
    console.log(x, wysokosc);

    if(i%2==0) {
        ctx.strokeStyle = "blue";
        ctx.lineTo(x,wysokosc);
        ctx.lineTo(x+szerokosc,wysokosc);

    }
    else{
        ctx.strokeStyle = "red";
        ctx.lineTo(x,szerokosc);
        ctx.lineTo(x,szerokosc);
    }
    ctx.stroke();
}</pre>
```



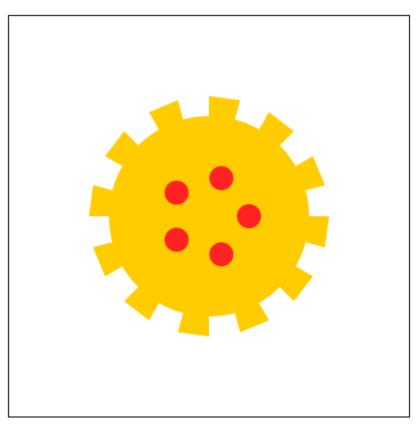
```
const ctx2 = canvas2.getContext("2d");
        var startAngle = 0;
       var currentAngle = startAngle;
       for (var i = 0; i < tab.length; i++) {</pre>
            var sliceAngle = (value / total) * (2 * Math.PI);
            ctx2.fillStyle = 'rgba(0 , ' + (0 + i * 50) + ', ' + (200 + i * 50)
           ctx2.beginPath();
            ctx2.arc(centerX, centerY, radius, currentAngle, currentAngle +
sliceAngle);
           ctx2.fill()
           currentAngle += sliceAngle;
```



```
<canvas id="myCanvas3" width="400" height="400" style="border:1px solid</pre>
       var canvas3 = document.getElementById('myCanvas3');
       var ctx3 = canvas3.getContext('2d');
       gradient.addColorStop(0, 'rgba(255, 0, 0, 1)'); //czerwony
       gradient.addColorStop(1, 'rgba(0, 0, 255, 1)'); //niebieski
       ctx3.beginPath();
       ctx3.arcTo(x + width, y, x + width, y + height, radius);
       ctx3.arcTo(x + width, y + height, x + width - radius, y + height,
radius);
```

```
ctx3.arcTo(x, y, x + radius, y, radius);
ctx3.closePath();
ctx3.fillStyle = gradient;
ctx3.fill();

</script>
</br>
```



```
ctx4.fillStyle = "#ffcc00";
    var angle = (2 * Math.PI / numTeeth) * i;
    var x1 = centerX + r1 * Math.cos(angle);
    var y1 = centerY + r1 * Math.sin(angle);
    var x2 = centerX + r2 * Math.cos(angle);
    var y2 = centerY + r2 * Math.sin(angle);
   var x3 = centerX + r2 * Math.cos(angle + Math.PI / numTeeth);
    var y3 = centerY + r2 * Math.sin(angle + Math.PI / numTeeth);
    var x4 = centerX + r1 * Math.cos(angle + Math.PI / numTeeth);
   var y4 = centerY + r1 * Math.sin(angle + Math.PI / numTeeth);
    ctx4.beginPath();
   ctx4.moveTo(x1, y1);
   ctx4.lineTo(x2, y2);
   ctx4.lineTo(x3, y3);
   ctx4.lineTo(x4, y4);
   ctx4.closePath();
   ctx4.fill();
ctx4.beginPath();
ctx4.fillStyle = "#ffcc00";
ctx4.fill();
var holeRadius = 12;
   var holeY = centerY + (r0 - 60) * Math.sin(angleHole);
    ctx4.beginPath();
    ctx4.arc(holeX, holeY, holeRadius, 0, 2 * Math.PI);
   ctx4.fillStyle = "#ff2222";
   ctx4.fill();
```