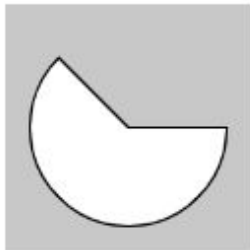


Circle Graph and arc()

lesson 4

arc(x, y, w, h, start, stop, [mode])



edit reset copy

```
arc(50, 50, 80, 80, 0, PI + QUARTER_PI, PIE);  
describe(  
    'white ellipse with top right quarter missing  
    with black outline around the shape'  
);
```

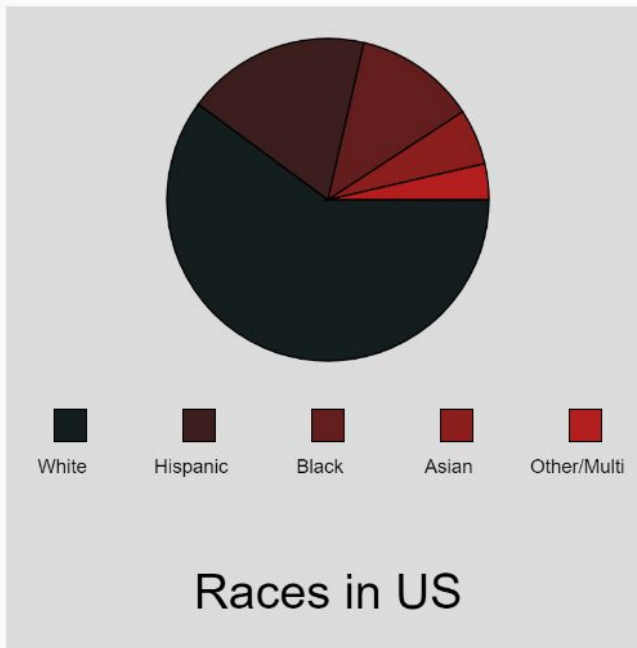


sketch.js

Saved: 4 minutes ago

Preview

```
13 let percent = data.getColumn('Percent')
14 print(race)
15 print(percent)
16 let angles = []
17
18 // use a for loop to go through the percentages, convert them into angles
19 // in radians, and then save those angles into the list angles.
20 // The percent goes from 0 to 100 and the circle in radian goes from 0 to
21 // "2*PI"
22
23 // Use another for loop to go through the angle list, and use the arc()
24 // function to draw a PIE piece for each angle. Have the color change as you
25 // draw each sector.
26
27 // Create a key with a square of each color and a label of the group it
28 // matches. You should use the same colors as the graph.
29 // Add a title
30 }
```



Console

Clear



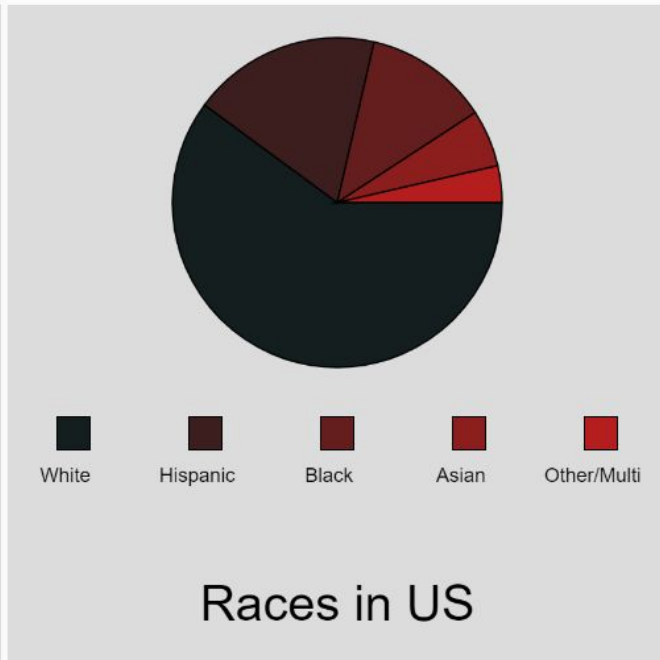


sketch.js

Saved: 10 days ago

Preview

```
1 let data;
2
3 function preload(){
4   data = loadTable("RaceUS.csv", "csv", "header")
5 }
6
7
8 function setup() {
9   createCanvas(400, 400);
10  background(220);
11  let numRows = data.getRowCount();
12  let race = data.getColumn('Race')
13  let percent = data.getColumn('Percent')
14  print(race)
15  print(percent)
16  let angles = []
17  for (let i=0; i<percent.length;i++){
18    angles.push(map(percent[i],0,100,0,2*PI))
19  }
20  let color= 20;
21  let start = 0;
```



Console

Clear

▶ (5) ["60.1", "18.5", "12.2", "5.6", "3.6"]

▶ (5) [3.7761943696149314, 1.1623892818282235, 0.7665486074759095, 0.35185,