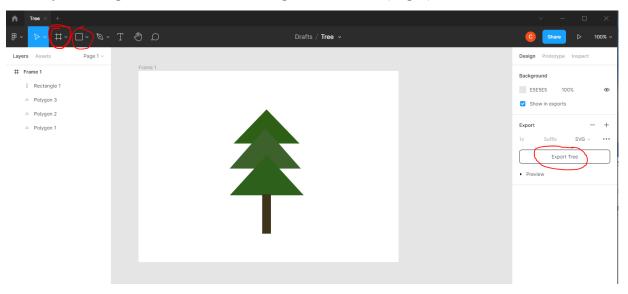
## **CSCE 5320 Scientific Data Visualization**

## Introduction to Web Technologies Tutorial

Create a SVG File by using Figma:

Create your own picture and download the picture as SVG (step 1)



And you will get the svg file like this:

Create your own html file and css file in VS code/ any code editing app you prefer, Embed your svg file and css file into the html file. (step2) For example:

```
File Edit Selection View Go Run Terminal Help index.css - Visual Studio Code

index.html Tree.svg # index.css ×

c: > Users > Haili > Desktop > # index.css > ?

img {

height: 500px;

width: 500px;

body {

color: white;

10

color: white;

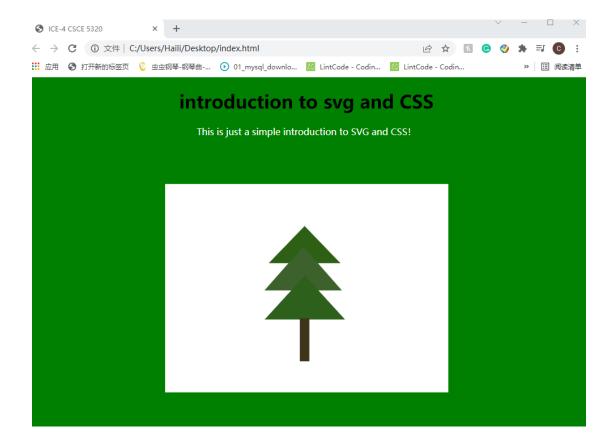
11

12 body {

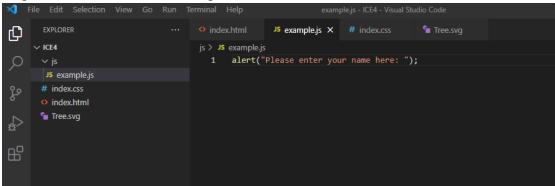
13 text-align: center;

14 }
```

Example of Final version for the webpage:



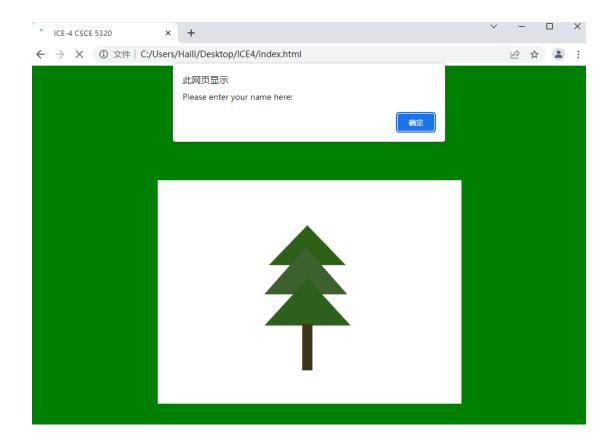
Step 3: Introduction to JavaScript:



Add the following code into the body of html:

```
<script src = "js/example.js"></script>
```

Then when you run the code, so the alert should be there:



## • Introduction to VizHub and make a face in D3.js

Log in to <a href="https://vizhub.com/">https://vizhub.com/</a>, choose a face project from most focked/ most popular, Click open Editor and start to make your own face by editing the code.

## **Resource needs for D3:**

https://d3js.org/

# d3.arc() · Source

click Documentation, choose API Reference, find the Shapes package at: <a href="https://github.com/d3/d3/blob/main/API.md#shapes-d3-shape">https://github.com/d3/d3/blob/main/API.md#shapes-d3-shape</a>

click Arcs to generate the mouth for a smiling face.

```
Constructs a new arc generator with the default settings.

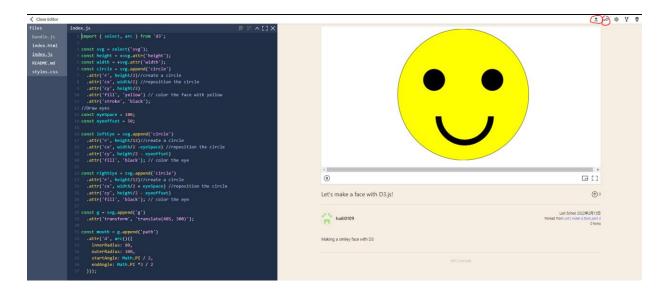
# arc(arguments...) · Source

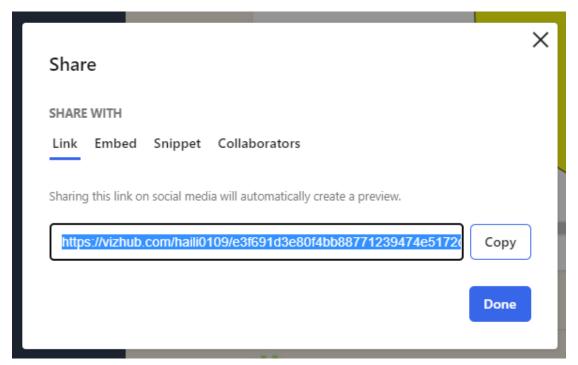
Generates an arc for the given arguments. The arguments are arbitrary; they are simply propagated to the arc generator's accessor functions along with the this object. For example, with the default settings, an object with radii and angles is expected:

const arc = d3.arc();

arc({
   innerRadius: 0,
   outerRadius: 100,
   startAngle: 0,
   endAngle: Math.PI / 2
}); // "M0,-100A100,100,0,0,1,100,0L0,0Z"
```

Example of a smiley face:





Copy the link and paste it on your word document.