

Haris Rao
Maze Rat Assignment
Homework 2
Introduction to Computer Graphics

Running The File :

- Run the "index.html" file to launch the program.

Controls:

- Use the Left arrow key to rotate towards left.
- Use the Right arrow key to rotate towards right.
- Use the Up Arrow Key to move forward.

UI:

- To Generate the Maze, Enter a Value for N and M and then click "Generate Maze", N and M can be any number because I have the feature of scaling so it will always fit in the canvas, but it might not be possible to see if the maze is too big.

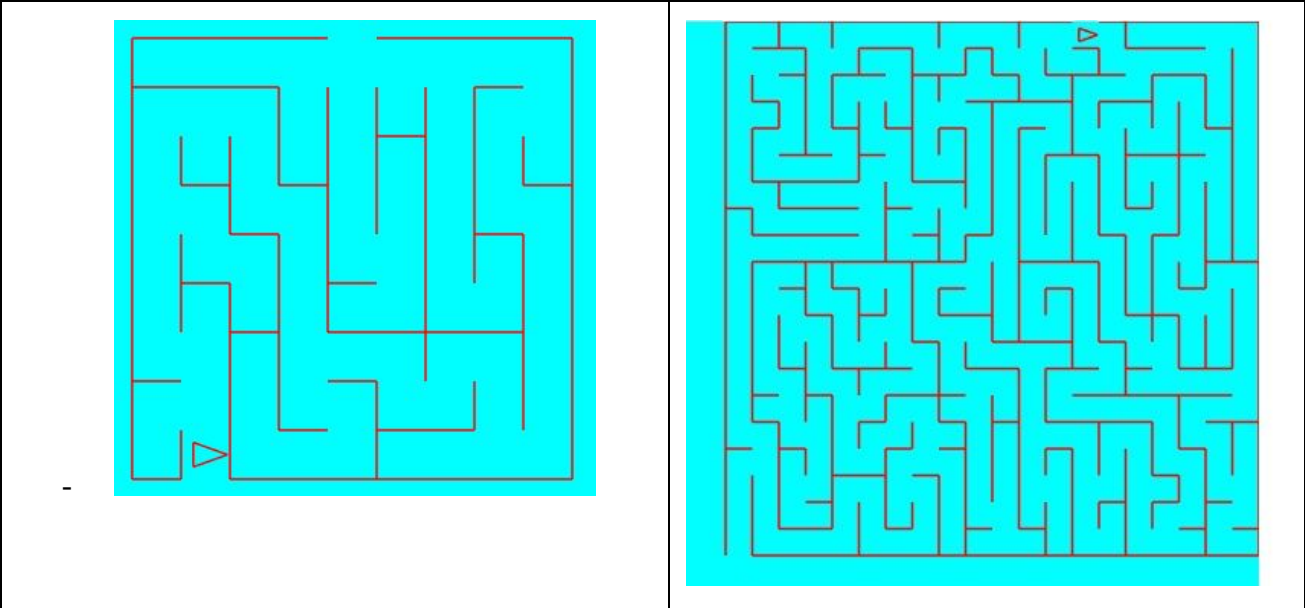
N:

M:

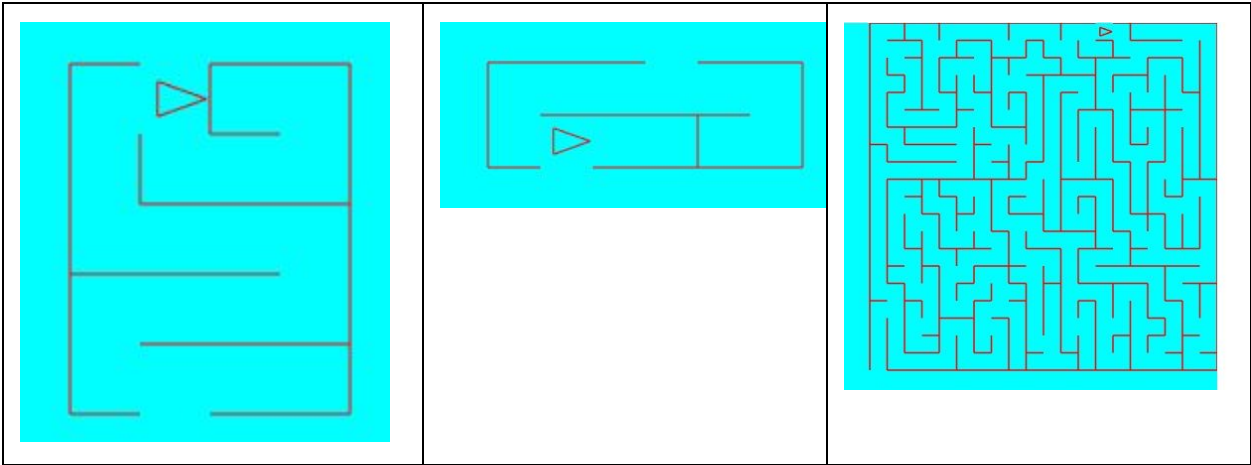
Scaling :

- Maze will always fit inside the canvas

Example of 9x9 Grid	Example of 29 x 29 Grid
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Some Results :



Direction

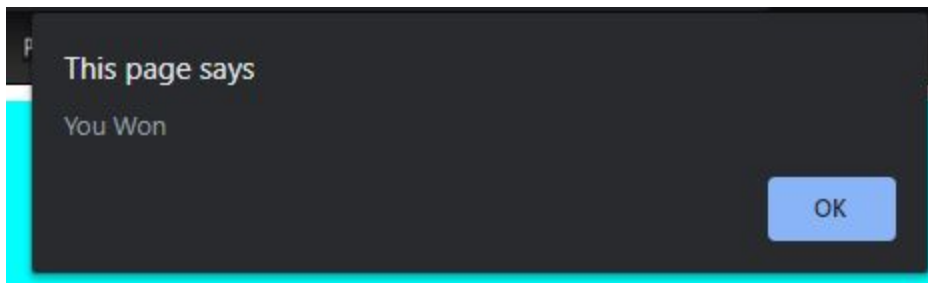
<u>Up</u>	<u>Down</u>	<u>Left</u>	<u>Right</u>

Start and End

- I purposely made the algorithm to pick an end goal on the opposite side of the start just to make it more challenging, because otherwise in some small cases the end would be right by the start.

Winning

- Once you reach the cell that has the door next to it, it waits for you next input and then alerts "You Won"



- Upon Hitting "OK", The page then refreshes and you can create another maze if you like.