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## The Maze

For our homework today we will be exploring how we display our maze. There are a number of ways to display a maze. The current code provided in the started code used a text display. What I have done and what I recommend is to use a table where you control the cell borders to create the maze. You can choose another way or keep the text output. But you will need to understand how to keep track of the route the user has traversed, where they made mistakes and what paths are possible.

Finally, we will need to know how to save the maze in the DB for redisplay.

Mongo supports a type of Array. So we could save the array(s) we currently have as a base object. We could later add array(s) that track where you have been and your current route found.

What I did was copy the getMaze function and create a function called getTableMaze. I changed several things about this function and the PUG that displays the maze in order to accomplish a well done maze.

Here are some things that you will need to solve.

* CSS to control the cell borders. (We will later use this to control colored route taken)
  + Styles.css class
* Changes to the maze controller
* Changes to the mazeWorker.js
* Changes to the PUG file \_mazeForm.js
* Changes to the Maze.js model. (optional)

# Editor for HTML learning

I use a couple of online editors to test CSS, JS and HTML working together. They are both free for small things. You can find them here.

<https://htmlcodeeditor.com/>

&

<https://html-online.com/editor/>

You can paste in the code I gave you in the homework helper file combined with the CSS code surrounded with the <style> tag and you can test changes outside your program for display.

So the top of your code pasted in the editors may look like this.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<title>Vertical / Horizontal Line Tester</title>

<style>

table {

font: 11px/24px Verdana, Arial, Helvetica, sans-serif;

border-collapse: collapse;

}

tr {

border-collapse: collapse;

}

td {

border-bottom: 1px solid #FFFFFF;

padding: 0 0.5em;

}

td.right {

border-right: 2px solid #000000;

}

td.left {

border-left: 2px solid #000000;

}

td.bottom {

border-bottom: 2px solid #000000;

}

td.top {

border-top: 2px solid #000000;

}

td.redTop {

border-top: 2px solid #ff0000;

}

td.redRight {

border-right: 2px solid #ff0000;

}

td.redLeft {

border-left: 2px solid #ff0000;

}

td.redBottom {

border-bottom: 2px solid #ff0000;

}

</style>

</head>

<body>

# Information on tables

<https://www.w3schools.com/css/css_table.asp>

# Information on borders

<http://jkorpela.fi/html/cellborder.html>

There are other resources but these are really good ones.

You will need to build a table on the fly. This will require you to keep track of where you are in the table and what elements are required.