DGMD E-28  
Developing Single Page Web Applications  
Assignment 2: Tic Tac Toe Part 1

## Summary

Your assignment is to create Tic Tac Toe as a web app using Javascript

**This assignment will be started this week and completed in the next assignment.**   
**Do not do more than is requested for this week.**

**We will be doing several versions of the app as we keep building new functionality.**  
*Please check the tasks carefully to ensure you submit correctly.*

## Ground Rules

* You may use HTML, CSS, JavaScript and jQuery only
* DO NOT look up how to do this online.
* Use the techniques we reviewed in class and in the notes.
* You may host anywhere you want, but it must be online.
* You may add enhancements or variations after meeting the requirements.

## Tasks for this week:

## Version 1: ttt1.html Build a tic tac toe board using HTML, CSS. Add CSS as needed to create the 3 x 3 grid of squares. Each square should be a <div> element.

The squares should end up looking similar to this- note that these are 100px by 100px with a 5px margin  
  
A grid of squares with black lines

Description automatically generated

## Hard code two X’s and one O in 3 different squares of your choice. This will help you to get the position and sizing of the X’s and O’s correct.

## Add CSS to change the background of any square when you hover over it. Note that the CSS should be an internal style sheet.

## Save as ttt1.html

**Version 1: ttt2.html**

Redo ttt1 using the following JavaScript code to create the <div>’s. You will likely need to adjust your CSS. (NOTE – you may not change this code)

const NUM\_SQUARES = 9;

for (i=0; i<NUM\_SQUARES; i++)

{

id = "sq"+i;

document.write( "<div class='square' id='" + id + "'></div>" );

}

* Add a title on the page above the squares
* Add a <div> section to indicate whether it is X’s turn or O’s turn – put a border around it so that we can see its placement
* Add another <div> section on the page to display a win condition (you will use this next week) – put a border around it so that we can see its placement
* Use Javascript to place 2 X’s and one O in the sale position you had them in ttt1

* + Save as ttt2.html

## Next week we will add interactive functionality to make the game playable!

**Deliverables**:   
  
ttt1.html and ttt2.html along with the URL ***online*** for each.

Answer to question: Identify an area of CSS code you feel really good about – and indicate why.

## Rubric

20 points Creativity & Effort  
50 points Meets requirements  
30 points Overall quality/technical proficiency