DGMD E-28  
Developing Single Page Web Applications  
Assignment: Wordle

## Summary

Utilize Javascript objects plus an API to create a one-page game app.

**Task:**

You are tasked with creating an app to implement the popular Wordle game (ref: https://www.nytimes.com/games/wordle/index.html)  
Note that your implementation **does not** have to match the UI of NY Times version – the link is provided for reference.

Your submission will be judged on your ability to leverage Javascript objects within your design and to create an intuitive UI.  
You are required to use an API for the vocabulary of words to guess or to check the user’s guess to make sure it is a valid word. You may use an additional API if desired.  
API’s must return JSON and must be accessed using XMLHttpRequest or a promise or fetch.

*Note: You may not use React for this assignment.*

**Game play:**

The player has 6 tries to guess a 5 letter word.

Guesses must be valid 5 letter words (you will need to check this)

For each letter in the guess, you must report one of three results:   
if the letter is not in the answer  
if the in the answer but in a different place than in your guess word  
if the letter is in the same place as in the guess word

Here is an example response:  
Answer: PRIDE  
Guess: DOPED  
the D is in the wrong place  
the O is not in the word  
the P is in the wrong place  
the E is in the wrong place  
the second D is not in the word

The game ends when the user guesses the word or uses all 6 guesses.

**Required Features:**

Display a used letter indicator so that the user can avoid letters that are eliminated.

Include an optional “debug” mode (switchable at the start of the game) that displays the answer so that it is easier to check correct operation.

Allow the user to play multiple games.

Responsive to tablet size (down to 700px)

**Optional Features:**

Track statistics of wins and losses- and how many guesses a win needed.

Some animation when the user wins.

Responsive to 600px wide

Additional features are encouraged once the requirements are met.

## Deliverables:

## PDF with: URL

Copy of the code (or the code files)

Cite the API you used – and why

Answer to the question:   
What was the most satisfying part of this assignment?

## Rubric

Works to spec 55%

Code quality 25%

UI quality 20%