

# QND Computer Science Day 11

Mark Schmidt

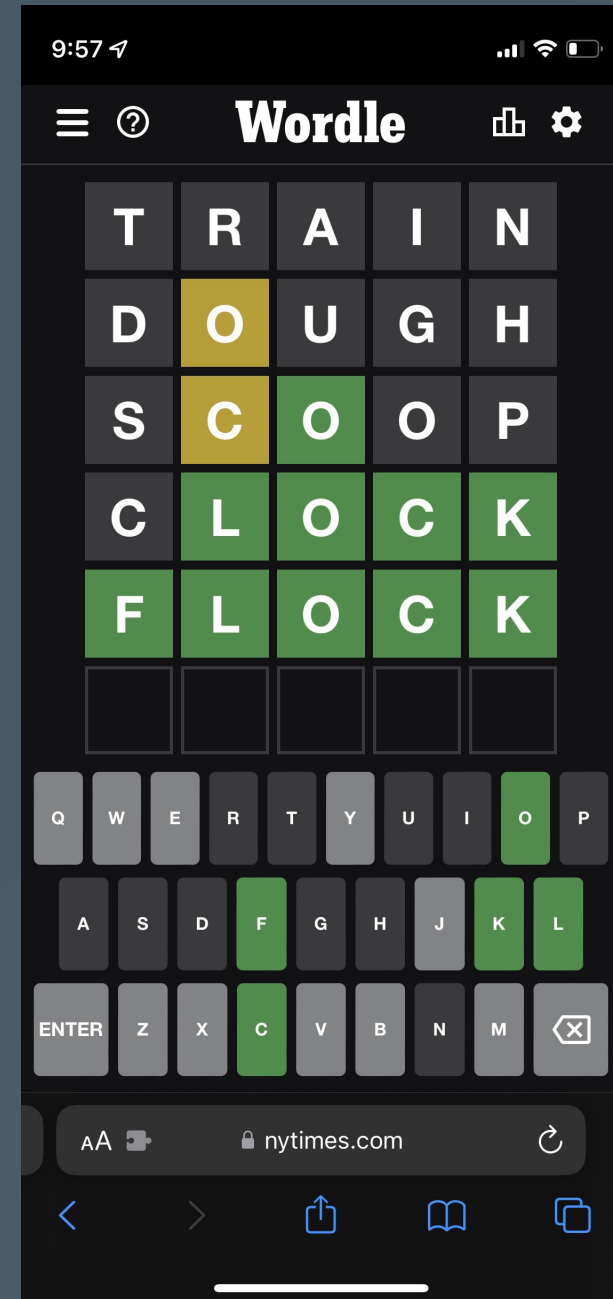
# Recap

- Functions
- Guess My Number

# What's Next?

## Wordle

- Very fun game
- Very simple



# What does this output?

```
let ice_cream_flavors = ["Chocolate", "Vanilla", "Cookies and Cream", "Strawberry"]

for flavor in ice_cream_flavors {
    print("The flavor is \(flavor)")
}
```

# What does this output?

```
let ice_cream_flavors = ["Vanilla", "Chocolate", "Cookies and Cream", "Strawberry"]  
  
let my_favorite = ice_cream_flavors[2]  
print("My favorite flavor is \ (my_favorite)")
```

# Why do Lists start at zero?

- It's a single block of memory
  - The first element is at the first address
- It's what lots of other languages do

# What happens when we change 2 to 4?

```
let ice_cream_flavors = ["Vanilla", "Chocolate", "Cookies and Cream", "Strawberry"]  
                        // 0           1           2           3  
  
let my_favorite = ice_cream_flavors[2]  
print("My favorite flavor is \ (my_favorite)")
```

# List Contains

- How to check if a list contains an item?

```
if favorite_ice_cream_flavors.contains("Chocolate") {  
    print("Yum!")  
}
```



# Strings are Lists!

```
let my_string = "Hello, World!"  
print(my_string[0]) // Prints "H"  
print(my_string[6]) // Prints "W"  
if my_string.contains("W") {  
    print("W is in my string!")  
}
```

# Project

- Create a simple Wordle program
  - Have a single secret word
  - Receive guesses from user in a loop
  - Print out emoji representing correct characters
  - <https://tinyurl.com/qnd-wordle-1>

