# Intro to Firebase

The Coding Bootcamp

# Class Objectives

- Introduce the utility of server-side storage systems like Firebase
- Basic methods for storing and retrieving data in Firebase
- Introduce the concept of user "presence" in Firebase

# Take a Moment…

# Discuss Client vs Server Persistence

- What is "data persistence"?
- What is the difference between "client side" and "server side" data storage?
- What is one case where you might use one vs the other?
- What is one advantage of using each?

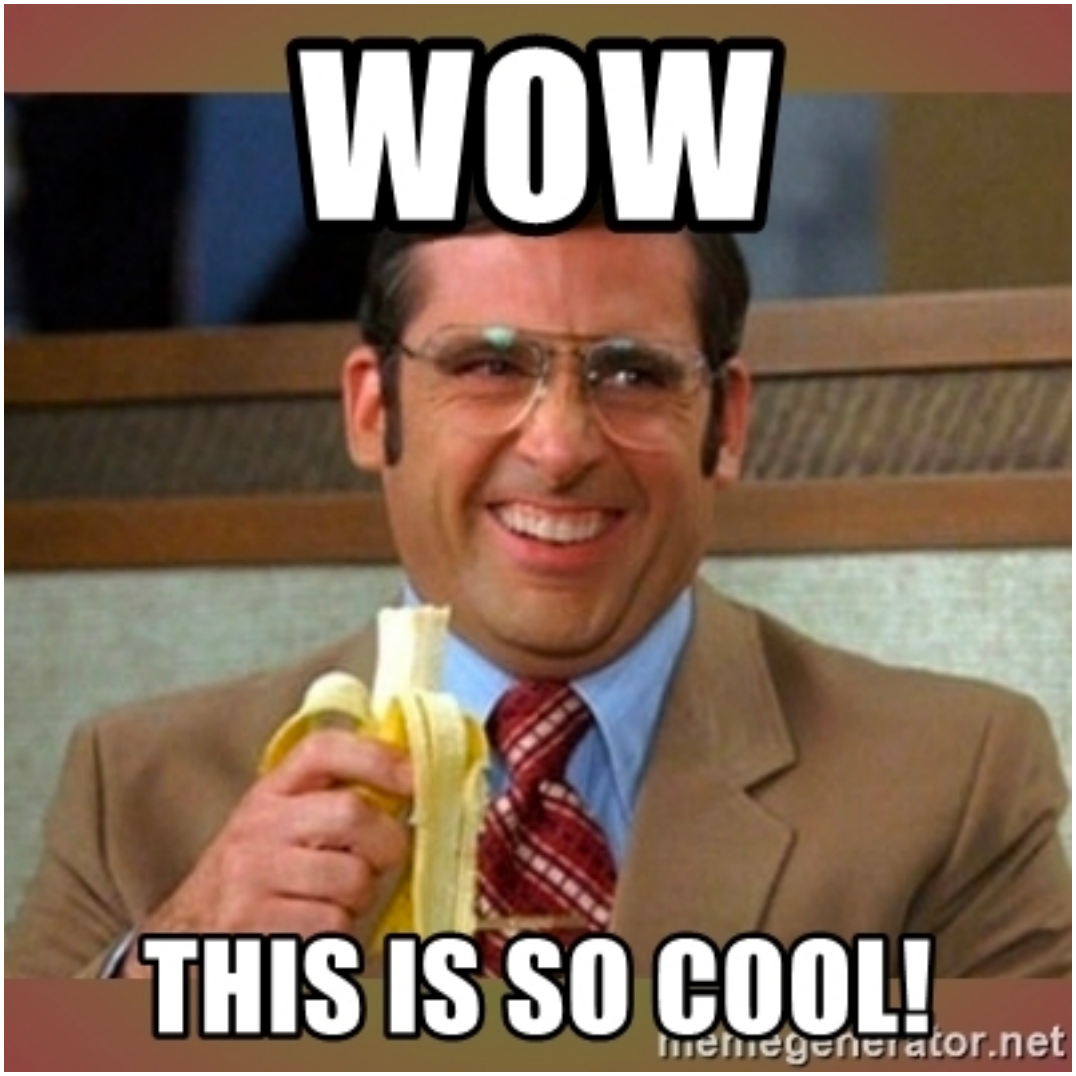
https://firebase.google.com/

`database = firebase.database()` references the database

`.set({})` saves the data

`.ref()` specifies where the data will be saved

`.on("value", function(){})` which creates an "on-change" event so that the moment the page first loads or the moment the database changes, the impact is reflected immediately.




Why is this so cool?

Firebase

# Re-comment Click Button Code

02-instructor-do-clickbutton-nocomments

Comment each of the lines of the code with what they think is happening on that line.

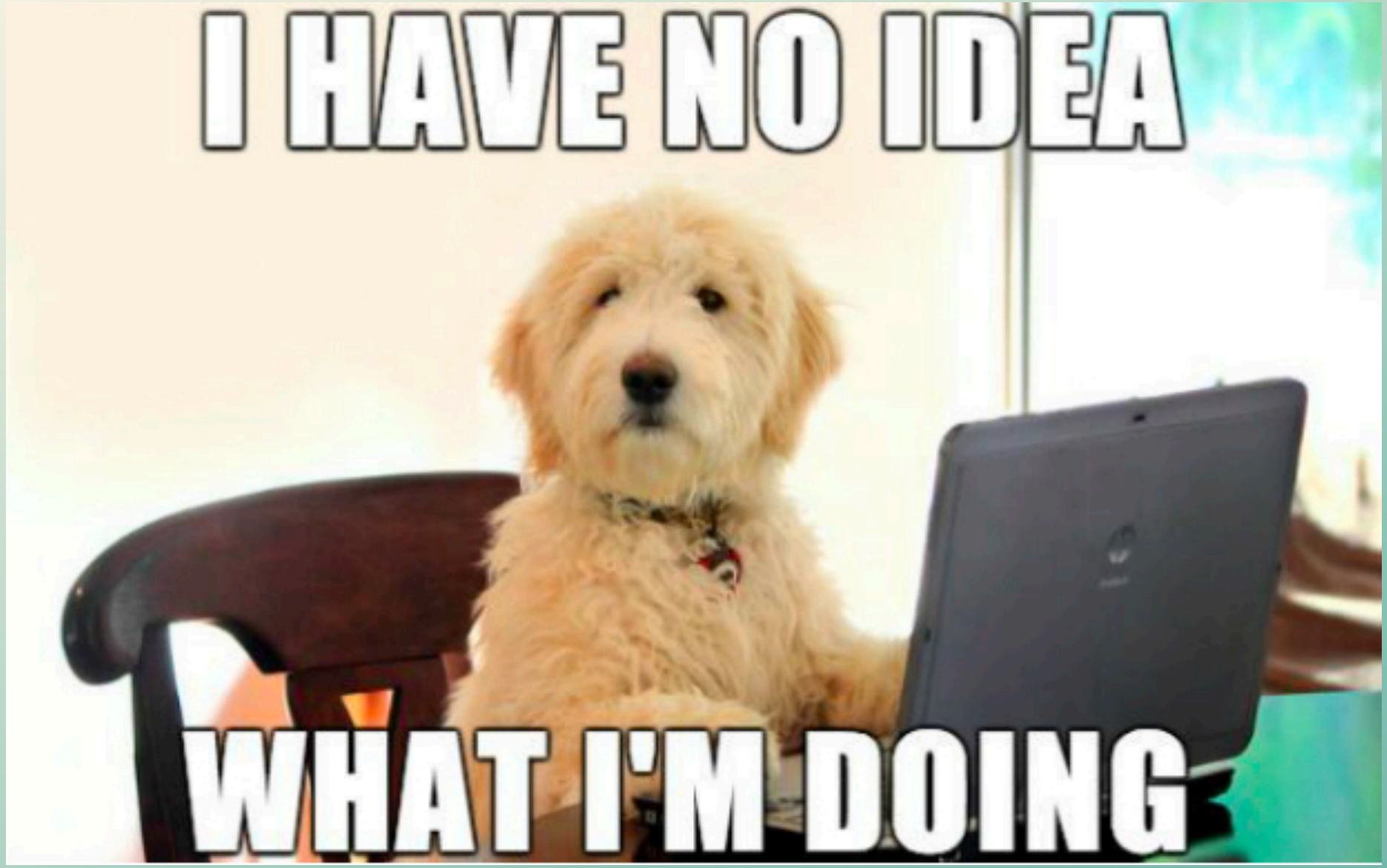
# Students Do: ClickDown Counter

- Using either `logic.js` (unsolved) (easier) or `logicOption2.js` (harder), create the click down activity using a Firebase database to store the click data on the backend.

- Your application should be able to run on multiple browser windows simultaneously and register click events on each screen correctly.

# Most Recent User Firebase Example (15 min)

- The finished product should save the newest user to a Firebase database and change the HTML.


I HAVE NO IDEA
WHAT I'M DOING

# Student Do: Example 6 - CoderBay

- Using either `logic.js` (easier)
  or `logicOption2.js` (harder) as a starting point,
  create the CodersBay app using a Firebase database to
  store data on the backend.

- Your application should be able to run on multiple
  browser windows simultaneously and register click
  events on each screen correctly.

# Presence….

# CoderBay with Presence Example (10 min)

**Instructions**:

- Using `logic.js` as a starting point, incorporate view tracking using Firebase on the backend.

- HINT: `.set()` overwrites everything in the specified directory, so we will need to use `.ref()` to store bidder data and connections in different folders.

# Next Class

Next class will be covering arrays,
and more in-class time to practice with Firebase.

# *Questions*