# LET'S GET EVERYTHING SET UP!

1. In Schoology, go to: **Courses(in the top menu) > FEWD CHI 1: Section 1**
2. Then go to the **Class Materials** folder — it's the pink one!
3. Navigate to the **Week 7 (It's the yellow folder) > Lesson 12 folder**
4. There you'll find all the materials for today's class
5. Download starter_code_lesson_12.zip
6. Move it from your Downloads folder to your Desktop
7. Double-click on starter_code_lesson_12.zip to unzip it
8. After you've unzipped, delete the original .zip to avoid confusion and make sure you don't unzip it again later!!!

GENERAL ASSEMBLY

# REFACTOR

*Sarah Holden*

# LEARNING OBJECTIVES

- Describe the concept of "this" as it applies within jQuery anonymous functions
- Know the different ways to debug code and how to apply the concepts
- Apply programming skills to add interactions to a page

# AGENDA

- Debugging
- Keeping track of states
- ‘This’ keyword
- Data attribute
- Lab time

# DEBUGGING

# DEBUGGING

WHY ISN'T IT WORKING?

# DEBUGGING — WHERE TO START

Always start by defining the problem.

**THE IMAGE IS NOT MOVING**

**NONE OF MY CODE WORKS**

## DEBUGGING — WHERE TO START

This will tell you where to start your hunt.

**THE IMAGE IS NOT MOVING**

*Find the code that makes the image move*

**NONE OF MY CODE WORKS**

** Syntax error, check console*

# DEBUGGING

*To access debugging console:*

PC: CTRL+SHIFT+J
Mac: COMMAND+OPTION+J
Click the error

## Check for errors in console

- The location may not be correct but is a good place to start.
- Ex: Unbalanced brackets or parentheses

## console.log

- So no red errors but not getting the right answer? Try console.log

Example:

```
var stringOfNames = "";
["Bob", "Joe"].forEach(function(element){
    stringOfNames -= element + ",";
    console.log(stringOfNames);
});
```

## Use debugger in Chrome

- Set a breakpoint
- Run the code
- Step through the code until you get to the error
- Variable values display on the right
- You can switch to the console to run code or check value of variable

## Get Help!

- Try Googling it
- Be ready to clearly articulate the problem (Write out what your problem is)
- If you still can't find a solution, ask your instructor

# KEEPING TRACK OF CLASSES AND STATES

## HAS CLASS

jQuery's .hasClass() method is an easy way to tell whether or not an item is in a particular state.

```
$("h2").on("click",function(){
  var isSelected = $(this).hasClass('selected');
});
```

## JQUERY OBJECTS — BEHIND THE SCENES

When we select an item (or items) with jQuery, we're creating a jQuery object.

These objects behave very similarly to arrays:

1. They have a length property

```
var numberOfSelectedItems = $('.selected').length;
```

## JQUERY OBJECTS — BEHIND THE SCENES

When we select an item (or items) with jQuery, we're creating a jQuery object.

These objects behave very similarly to arrays:

1. They have a length property
2. Elements in the object can be accessed by their index [0] to [object.length - 1]

```
var firstTask = $('.task')[0];
```

```
var tasks = $('.task');
```

```
var lastTask = tasks[tasks.length - 1];
```

# ‘THIS’ KEYWORD

## THE KEYWORD ‘THIS’

**this** refers to the selected object

```
$("p").on("click",function(){
  $(this).fadeOut(500);
});
```

# CODE ALONG — ACCORDION

# DATA ATTRIBUTE

# LAB

# ACTIVITY


## KEY OBJECTIVE

- Apply programming skills to build a tab/panel widget

## TYPE OF EXERCISE

- Individual/Partner

## TIMING

*12 min*

1. Demo panels_obfuscated
2. Write pseudo code
3. Write JS

# LAB

# LAB

# ACTIVITY


## KEY OBJECTIVE

- Apply programming skills to build an interactive nav

## TYPE OF EXERCISE

- Individual/Partner

## TIMING

*Until 8:40*

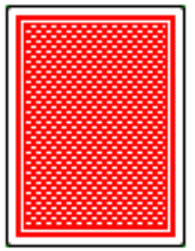
1. Demo interactive_nav_obfuscated
2. Write pseudo code
3. Write JS

# MATCHING LAB

# MATCHING LAB — STATES

An unselected card:

```
<div class="king cards"></div>
```



A selected card:

```
<div class="king cards selected"></div>
```

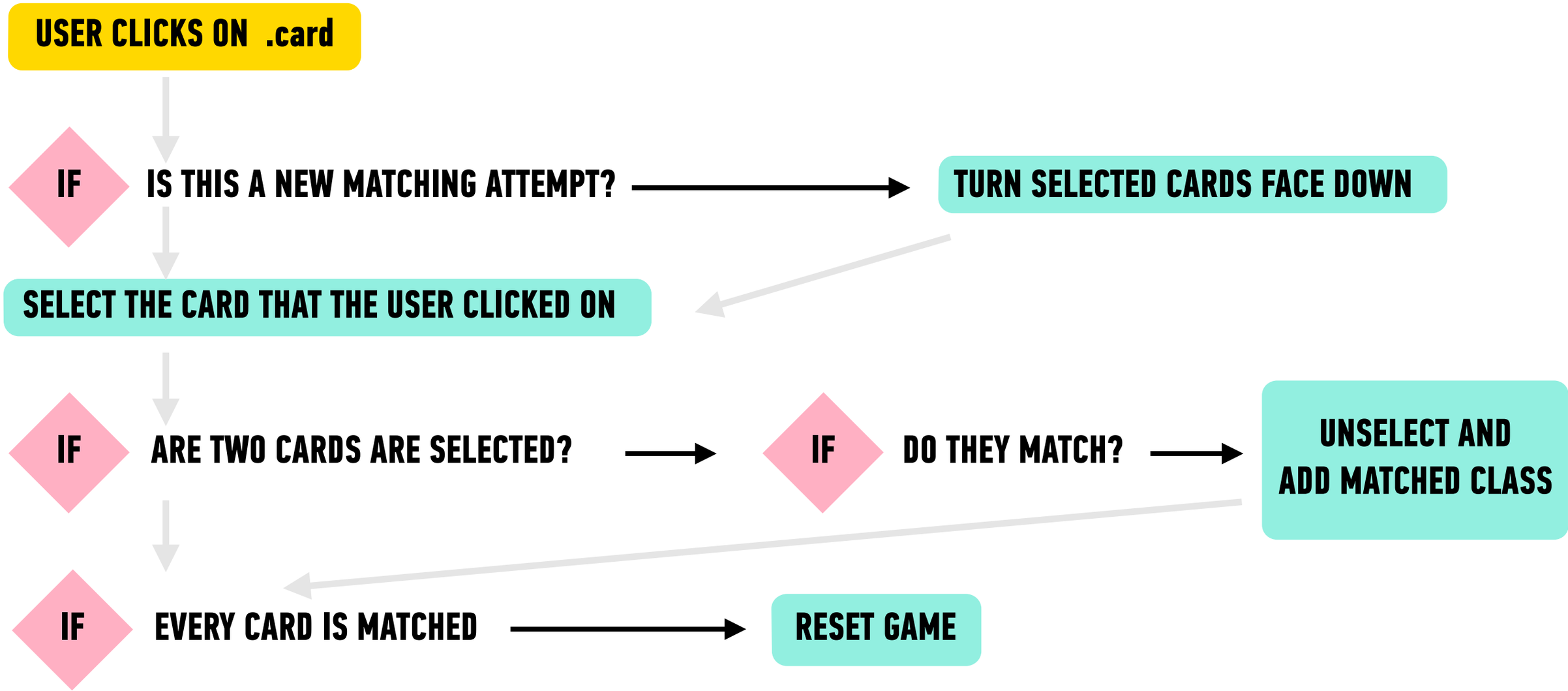
A matched card:

```
<div class="king cards matched"></div>
```

# MATCHING LAB — HOW CAN I TELL IF TWO CARDS MATCH?

```
<div class="king cards"></div>
<div class="king cards"></div>
```

# MATCHING LAB — FLOW



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# HOMEWORK

## HOMEWORK

### START ON MILESTONES 2 AND 3 FOR FINAL PROJECT:

Pseudo code for your final project will be due week 8. Start on it now!!!

First draft for your final project will be due week 9. Start on it now!!!

### REQUIRED VIDEOS/READING:

- Read Smashing Magazine's article "Responsive Web Design"
- Watch chapters 0-3 of GA Front Row's "Responsive Design vs Context"

### OPTIONAL VIDEOS/READING:

- Watch chapters 3.7 and 3.8 of Jeffrey Way's 30 Days to Learn jQuery (the whole series is definitely worth watching)
- Keep practicing Javascript track on Codecademy
- Go back and look at ways to refactor previous assignments (We'll chat refactoring Wednesday)
- Continue practicing CSS, HTML and JavaScript in Dash

# EXIT TICKETS