



FEWD - REVIEW AND REFACTOR

AGENDA

- Review
- Refactor
- This Keyword
- Debugging Techniques
- Practice using "this" and refactoring

REVIEW

- Evens and odds
answer
- Arrays
- Loops
- Functions
- Data Types
- console.log
- .attr()

REFACTOR

MAKING CODE MORE EFFICIENT WITHOUT CHANGING FUNCTIONALITY.

- To reduce or eliminate redundancy
- Make code easier to read
- Make code more maintainable
- Start with code that just works, then refactor

CSS REFACTOR

- Remove inline styling
- Replace repeated styles with classes
- Rename classes/ids for readability
- Organize CSS
- Group by section
- Create classes for large CSS changes in JS (separation of concerns)
- Remove unnecessary css

JS REFACTOR

- Use functions
- Use variables
- Use arrays
- Combine jQuery selectors
- Chain jQuery function calls

JQUERY CHAINING

If you want to call multiple methods on the same selection, you can "chain" the methods

```
$('.my-element').attr('src', 'images/food2.jpg').addClass('show');
```

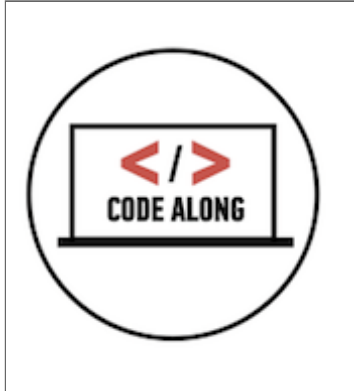
KEYWORD: "THIS"

jQuery: "this" refers to the selected element

KEYWORD: "THIS"

```
$('.li').click(function() {  
    $(this).addClass('clicked');  
});
```

Rule of thumb (ROT): If I don't know what thing will be acted on, then I should consider using "this"



FAQ REFACTOR - CODEPEN

DEBUGGING

Why isn't this working?

DEBUGGING

Always start by defining the problem.

- "The image is not moving"
- "None of my code works"

DEBUGGING

This will tell you where to start your hunt

- Image not moving
 - find the code that makes the image move
- None of my code works
 - Syntax error, check console

DEBUGGING: LEVEL 1

Check for errors (red text, aligned right) in console To access debugging console

```
PC: CTRL+SHIFT+J  
Mac: COMMAND+OPTION+J
```

Click the error

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

DEBUGGING: LEVEL 2

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

Ex:

```
var array = ['Sonny', 'Ruckus', 'This', 'Friday'];  
  
$.each(array, function(index, value){  
    console.log(value);  
});
```

DEBUGGING: LEVEL 3

Get help!

1. Be ready to clearly articulate the problem (Write out what your problem is)
2. Try Google, jQuery docs, etc
3. If nothing, ask instructor, peer



LIGHT SWITCH REFACTOR - CODEPEN

