

# JAVASCRIPT DEVELOPMENT

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### **JAVASCRIPT DEVELOPMENT**

# IN-CLASS LAB: FEEDR

# **LEARNING OBJECTIVES**

At the end of this class, you will be able to

- Familiarize yourself with the API documentation for news sources.
- Fork and clone your starter code.
- Strategize ways to hide the loader and replace the content of the #main container with that of the API.
- Integrate string and variable values using template literals

#### 4

## **AGENDA**

- Project 2 overview
- Template literals
- Project 2 lab time

## **WEEKLY OVERVIEW**

WEEK 7

Project 2 Lab / Prototypal inheritance

**WEEK 8** 

Closures & the module pattern / CRUD & Firebase

WEEK 9

Deploying your app / Student-Instructor choice

# HOMEWORK REVIEW

### **HOMEWORK** — GROUP DISCUSSION



#### TYPE OF EXERCISE

• Groups of 2-3

#### **TIMING**

4 min

- 1. Share your solutions for the Flickr project.
- 2. Share 1 thing you found challenging. If you worked it out, share how; if not, brainstorm with your group how you might approach it.
- 3. If you completed the bonus, demonstrate it and show how you coded it.
- 4. Share the APIs you plan to use for the Feedr project, and what you've learned about them from their documentation.

# **EXIT TICKET QUESTIONS**

### **EXERCISE** — PROJECT PLANNING



#### TYPE OF EXERCISE

▶ Individual, then groups of 2-3

#### **TIMING**

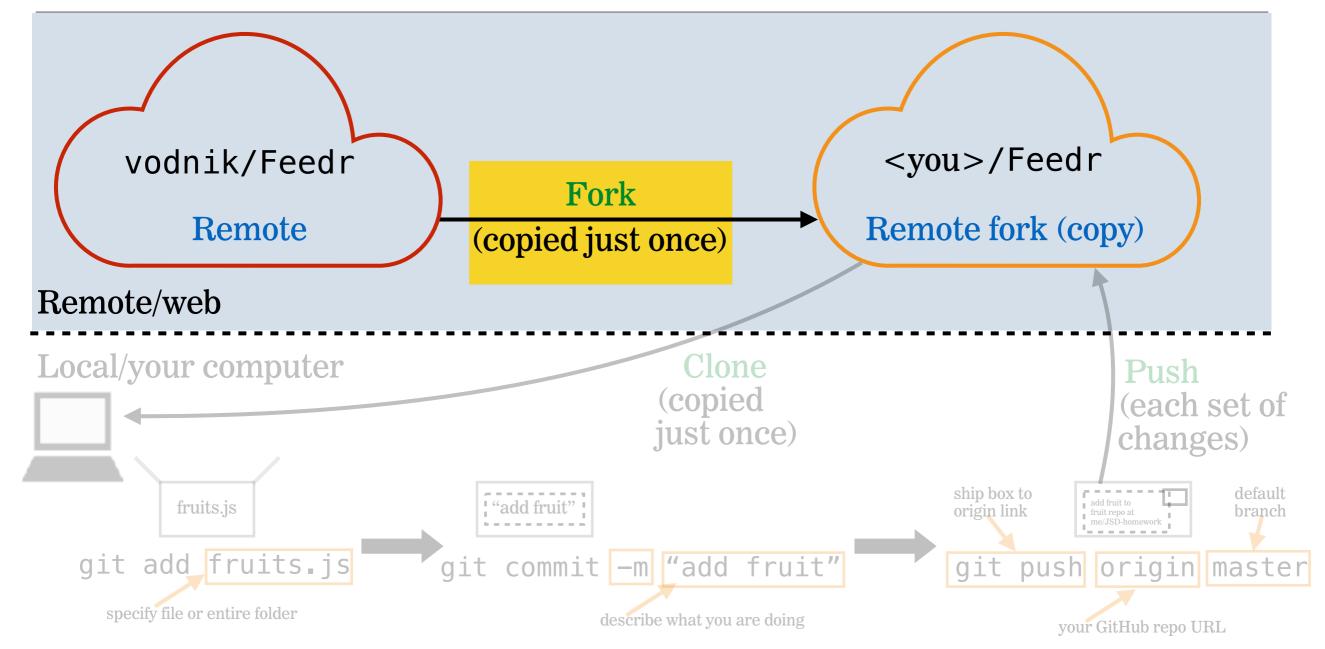
3 min

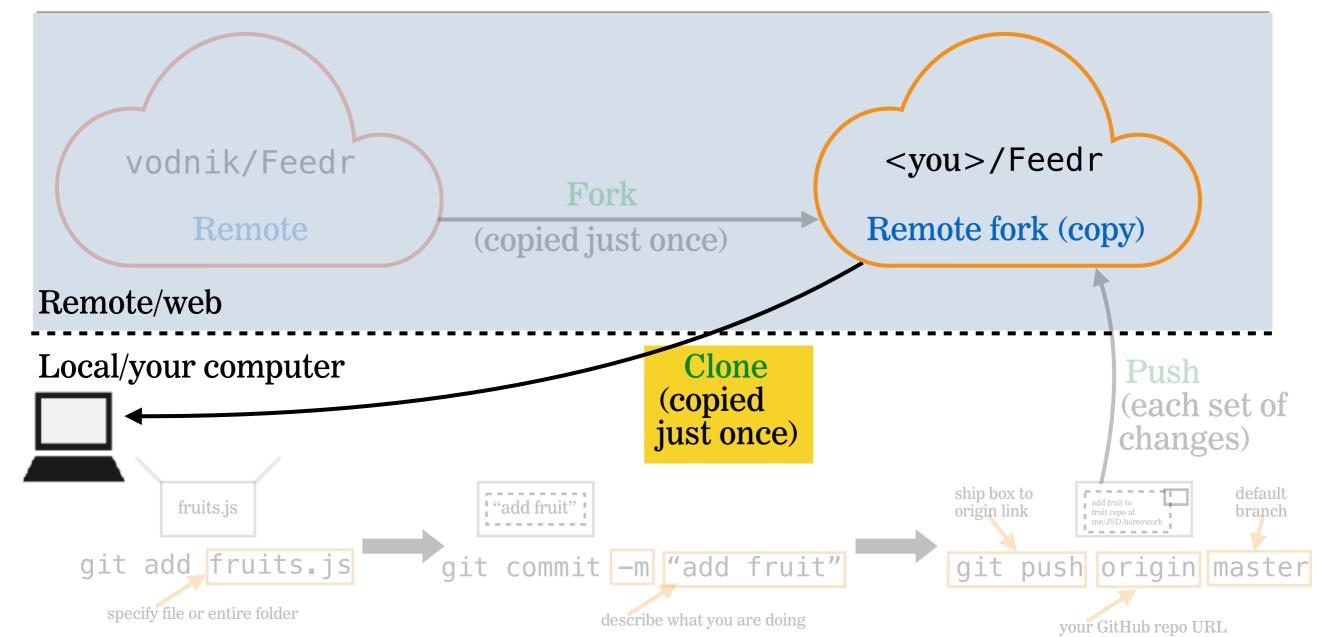
- 1. Think about how you approach a task with a lot of parts and steps. Jot a list of ideas.
- 2. Discuss your ideas with a partner or group, writing down any suggestions from your group members that seem helpful.
- 3. When everyone has had a chance to discuss, you'll have a chance to share your ideas with the rest of the class.

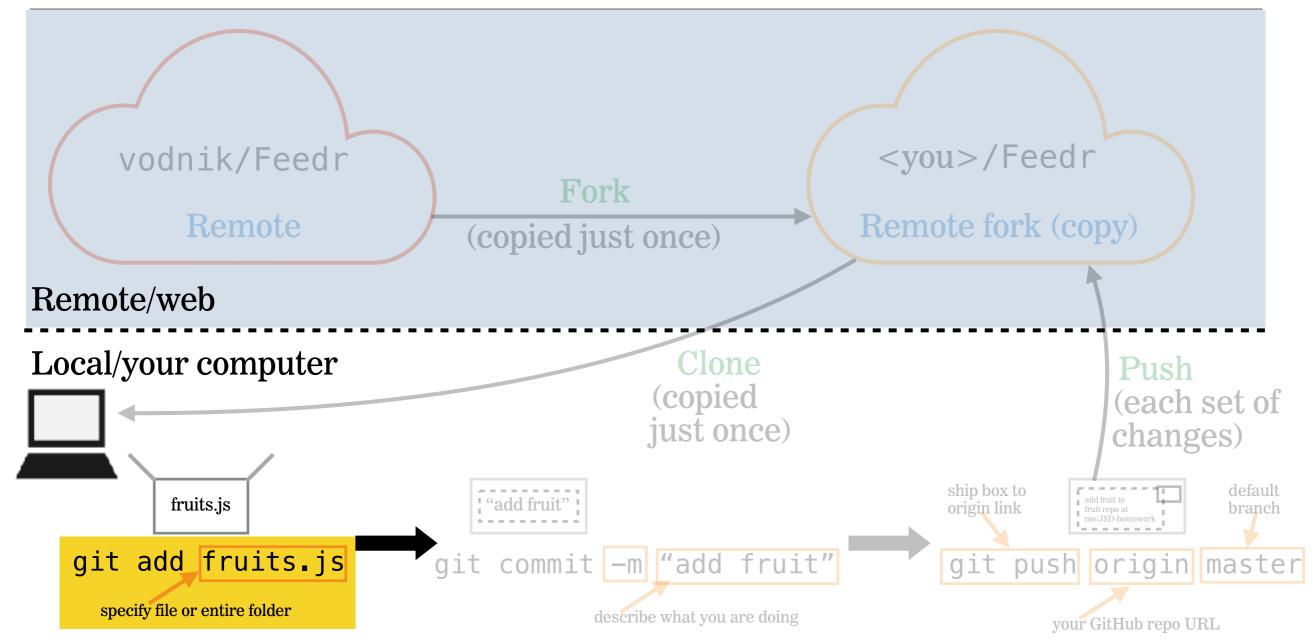
# **Project 2: Feedr**

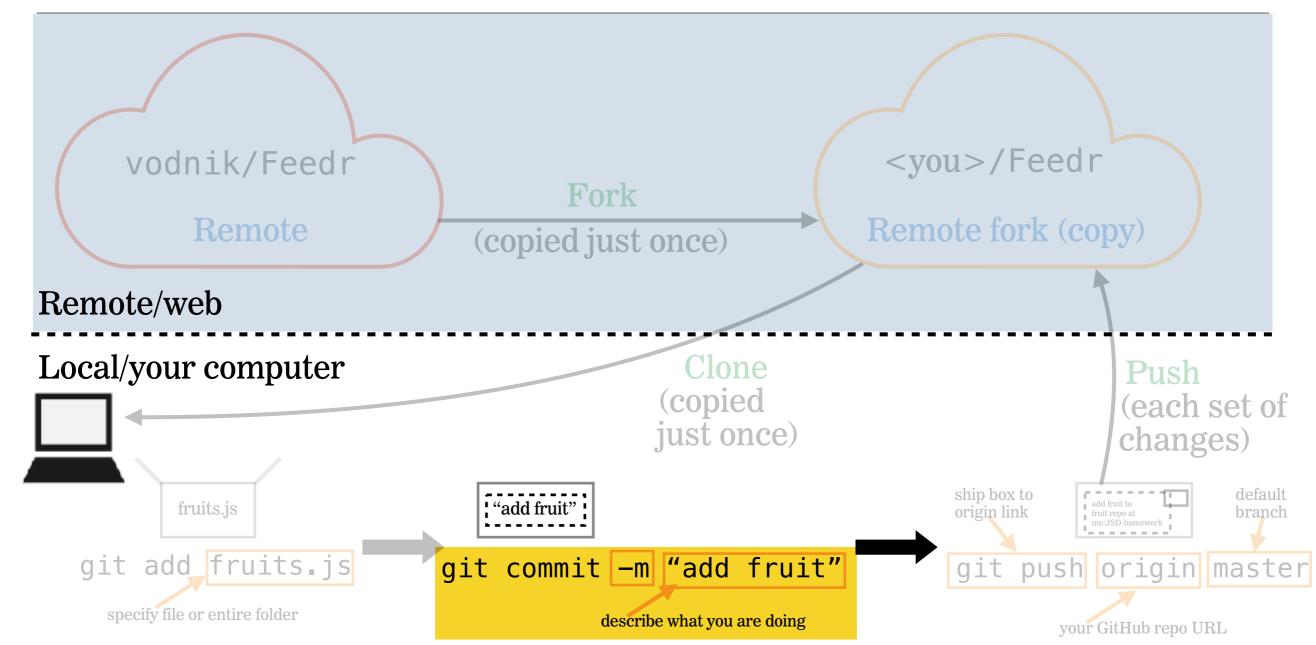
- GitHub repo to fork: https://git.generalassemb.ly/vodnik/feedr
- Project overview & instructions: https://pages.git.generalassemb.ly/vodnik/JSD12/pages/feedr.html

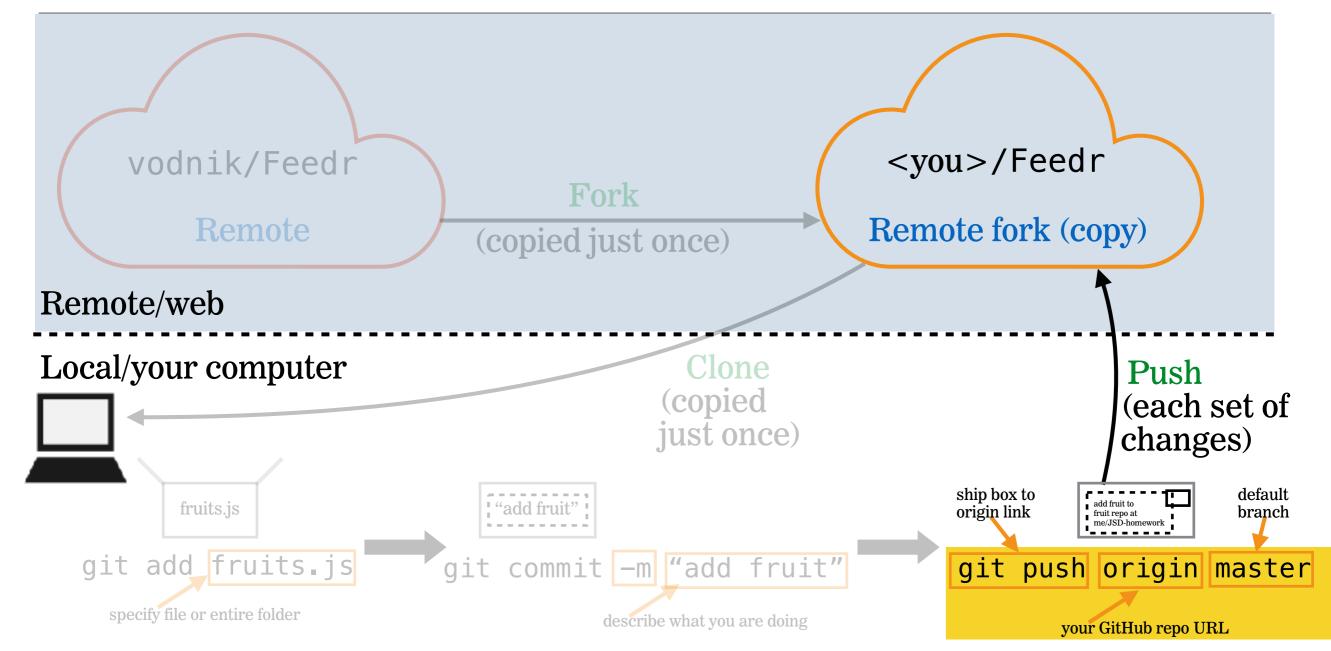


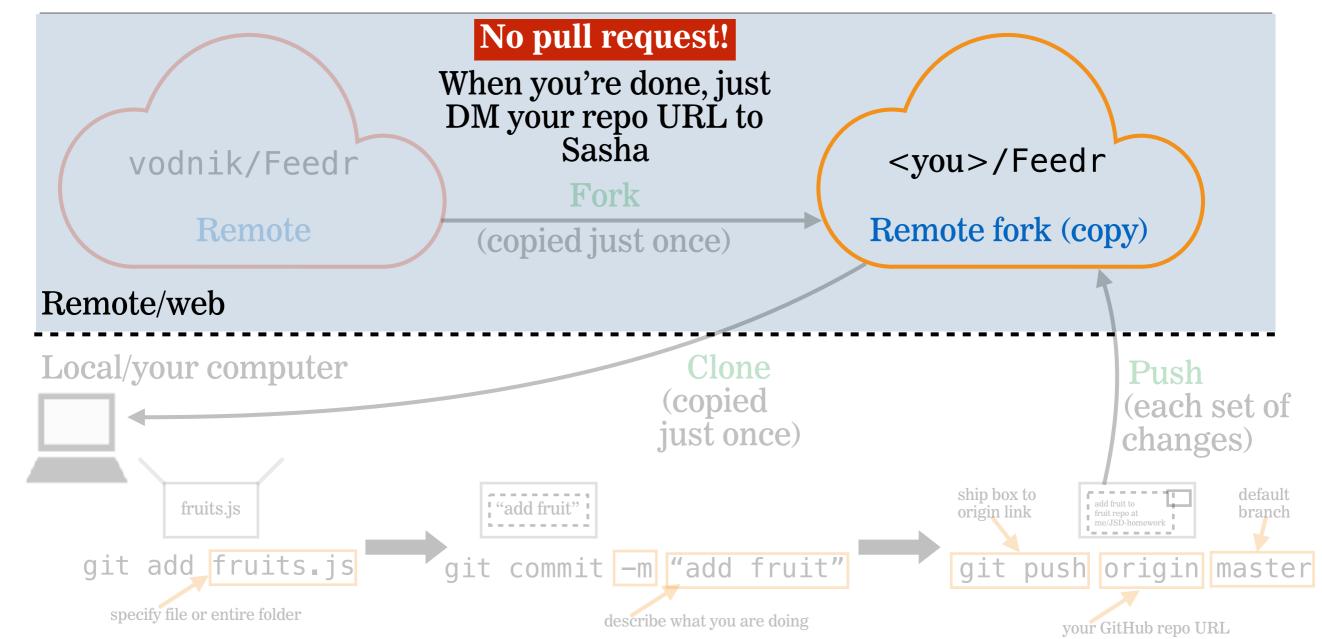








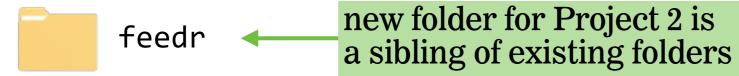


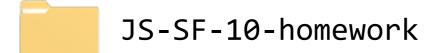


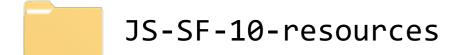
## **UPDATED FOLDER HIERARCHY**



JSD











### **EXERCISE** — FEEDR PLANNING



#### TYPE OF EXERCISE

▶ Individual, then groups of 2-3

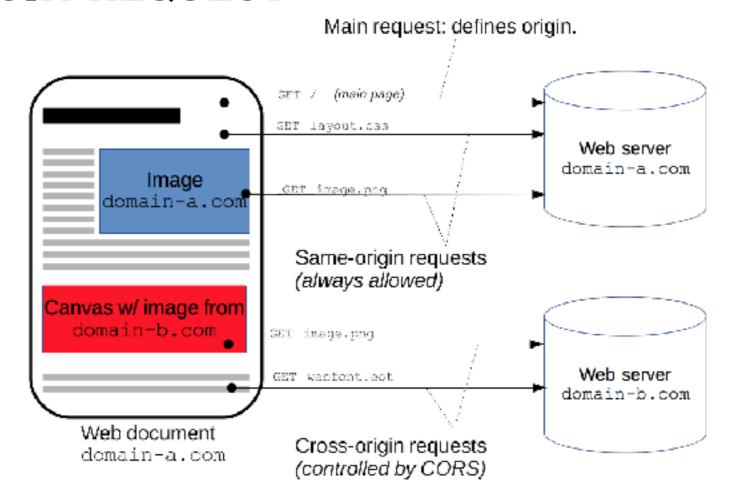
#### **TIMING**

6 min

- 1. Take a minute or two to decide on your next step for your Feedr project. (It's okay to have a few possible next steps at this point.)
- 2. Share your next step(s) with one or two classmates. If you have different approaches, talk about how you decided on your approach.
- 3. Share the list of news sources you've selected for your project, and any pseudocode you've written, with your group, and discuss.

# SAME-ORIGIN POLICY

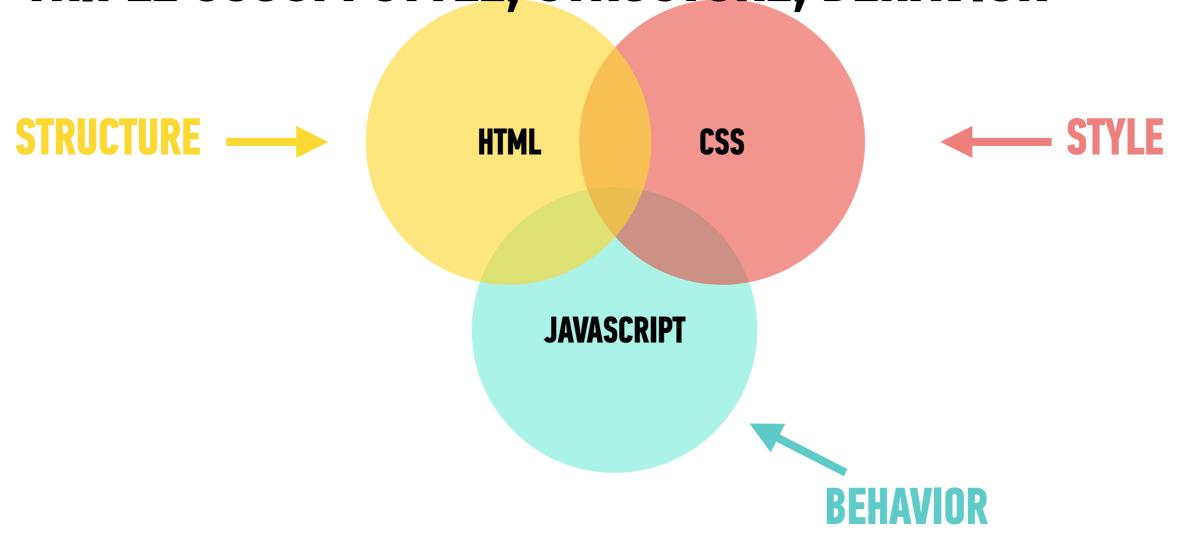
## **CROSS ORIGIN REQUEST**



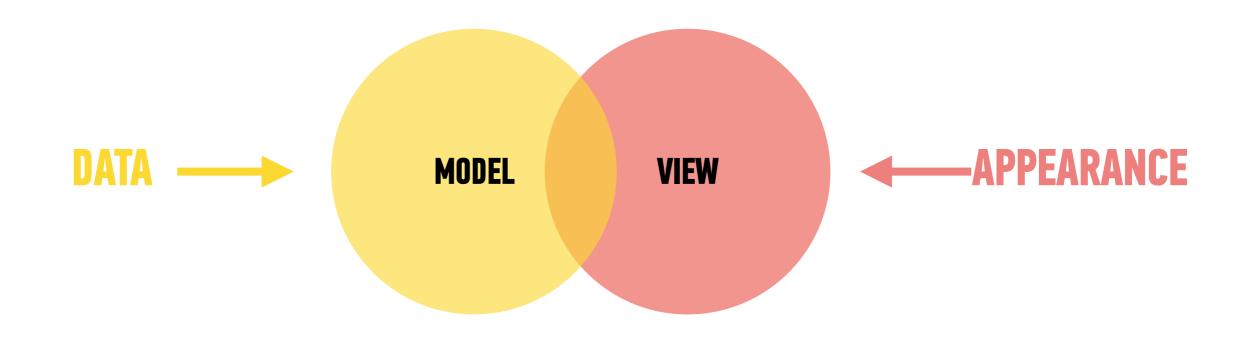
https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS

# TEMPLATE LITERALS

# TRIPLE SCOOP: STYLE, STRUCTURE, BEHAVIOR



# **MODEL VS VIEW**



# **DOM MANIPULATION**

```
$resultDiv.text(degCInt + ' C / ' + degFInt + ' F');
```

### **TEMPLATE LITERALS**

```
$resultDiv.text(`${degCInt} C / ${degFInt} F`);
```

## **TEMPLATE LITERALS**

```
$resultDiv.text(`\${degCInt} C / ${degFInt} F`);
```

variable reference starts with a dollar sign

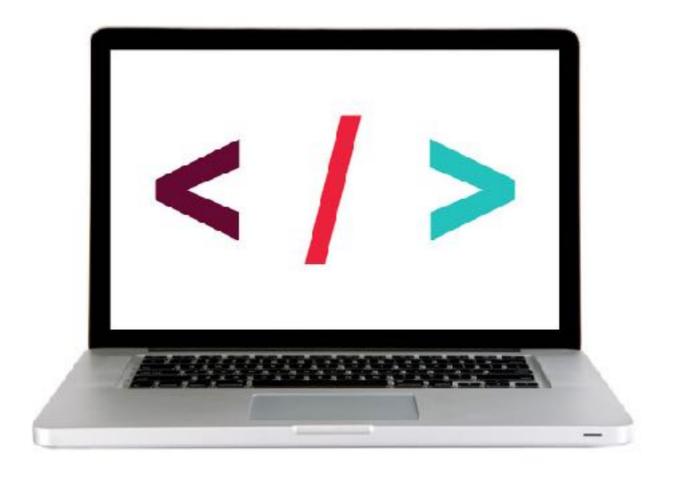
## **TEMPLATE LITERALS**

```
$resultDiv.text(`${degCInt} C / ${degFInt} F`);

variable reference
surrounded by curly braces
```

# **BUILDING A TEMPLATE LITERAL**

- 1. IDENTIFY THE DATA YOU WANT TO INTEGRATE
- 2. BUILD THE HTML STRUCTURE FOR A SAMPLE ELEMENT (INCLUDING CLASSES!)
  - 3. CONVERT THE HTML CODE TO A TEMPLATE LITERAL



**LET'S TAKE A CLOSER LOOK** 

## **BUILDING A TEMPLATE FUNCTION**

- 1. IDENTIFY THE DATA YOU WANT TO INTEGRATE
- 2. BUILD THE HTML STRUCTURE FOR A SAMPLE ELEMENT (INCLUDING CLASSES!)
  - 3. CHOOSE A LOOP AND CREATE IT (FOREACH, FOR/IN, FOR)
- 4. CONVERT THE HTML CODE TO A TEMPLATE LITERAL, AND RETURN IT FROM THE LOOP

#### **EXERCISE - TEMPLATE LITERALS**



#### **LOCATION**

starter-code > 2-templating-lab

#### **TIMING**

10 min

- 1. Create a template literal and use it to display the data in the favorite object. Use the HTML structure shown in the comment in index.html.
- 2. Create a template literal that displays the contents of the favorites object at the bottom of main.js.

# Exit Tickets!

(Class #12)

## **LEARNING OBJECTIVES - REVIEW**

- Familiarize yourself with the API documentation for news sources.
- Fork and clone your starter code.
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# NEXT CLASS PREVIEW Prototypal inheritance

- Explain the difference between literal and constructed objects.
- Write a constructor for a JavaScript object.
- Explain prototypal inheritance and its purpose.
- Recognize the difference between prototypal and classical inheritance.
- Create and extend prototypes.

# Q&A