
FINAL PROJECTS!!!

PRESENTATIONS

GUIDELINES

Walk us through your site!

- Tell us about the features
- Describe the functionality
- How did you accomplish what you accomplished?
- What is the ultimate goal of the site?
- Is your design responsive? Show us!

Talk about your process

- What was tricky?
- What are you especially excited about being able to accomplish?
- Are there any known bugs or features you'd like to add in the future?

FEWD

DESIGN JAM

FEWD

REVIEW

AJAX

WHAT

Asynchronous JavaScript And XML

HOW

Requests data from a server, uses JS to display data

Browser

An event occurs...

- Create an XMLHttpRequest object
- Send HttpRequest

Internet

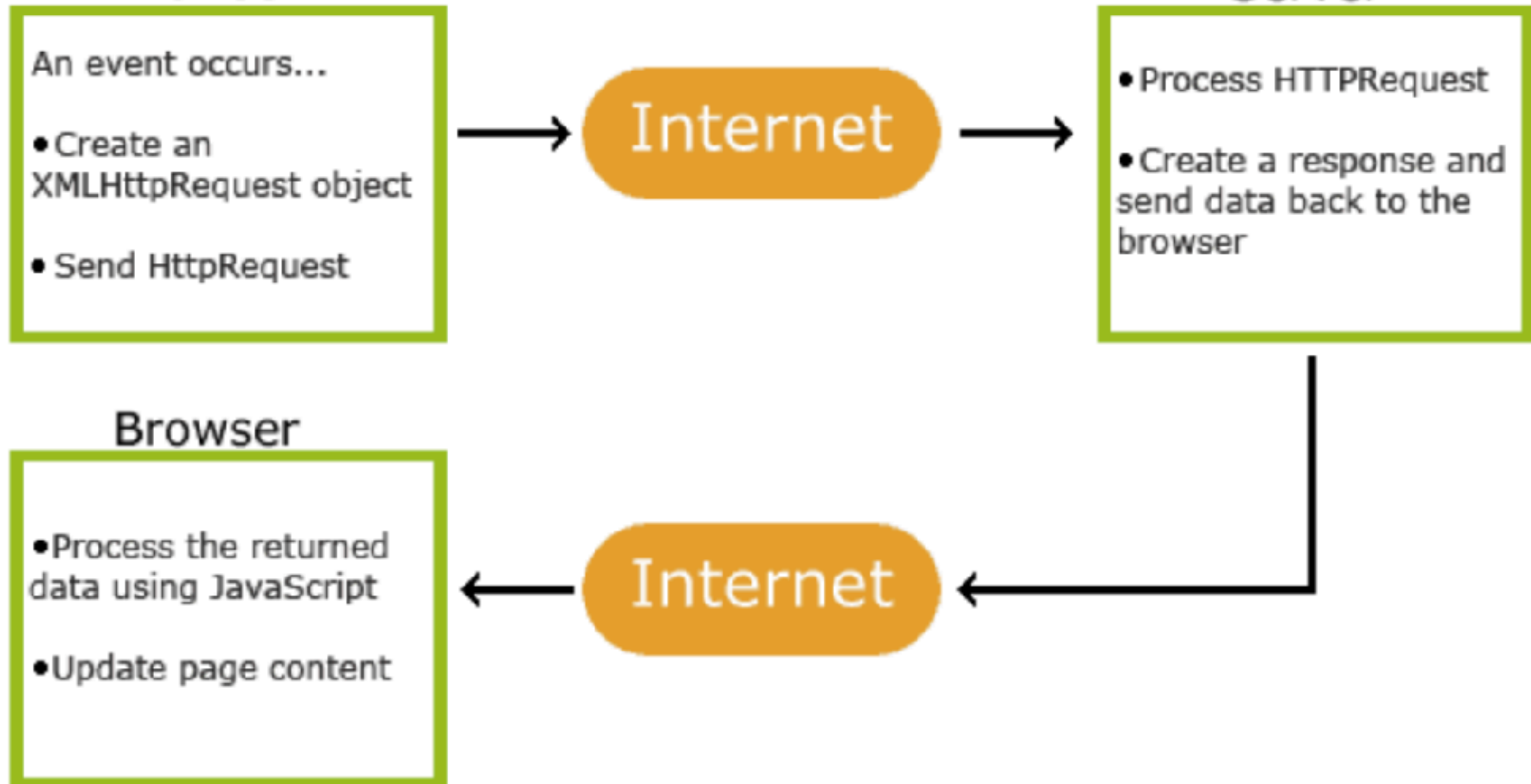
Server

- Process HTTPRequest
- Create a response and send data back to the browser

Browser

- Process the returned data using JavaScript
- Update page content

Internet



AJAX

1. An event occurs in a web page (the page is loaded, a button is clicked)
2. An XMLHttpRequest object is created by JavaScript
3. The XMLHttpRequest object sends a request to a web server
4. The server processes the request
5. The server sends a response back to the web page
6. The response is read by JavaScript
7. Proper action (like page update) is performed by JavaScript

FEWD

WHAT ABOUT JQUERY AND AJAX?

AJAX AND JQUERY

HOW DO THEY WORK TOGETHER?

- ▶ **With the jQuery AJAX methods, you can request text, HTML, XML, or JSON from a remote server and load the external data directly into the selected HTML elements of your web page!**

AJAX AND JQUERY

```
$.ajax({  
    type: "POST, PUT, GET, or DELETE",  
    url: "your endpoint here",  
    data: { //Key value pairs of data here },  
    success: function(data, textStatus, jqXHR) { },  
    error: function(jqXHR, textStatus, errorThrown) { }  
});
```

IN WHAT FORMAT IS THE DATA RECEIVED OR SENT?

ANSWER: JSON

WHAT IS JSON: A data type comprised of key-value pairs

JSON

```
var userInfo = {  
    firstname: "Mel",  
    lastname: "Serra",  
    role: "Instructor",  
    pets: [  
        {  
            name: "Fido",  
            type: "Dog",  
            favorite_toy: "Tennis ball",  
            age: 7  
        },  
        {  
            name: "Kitty",  
            type: "Cat",  
            favorite_toy: "Feather on a stick",  
            age: 3  
        }  
    ],  
    favorite_number: 10  
};
```

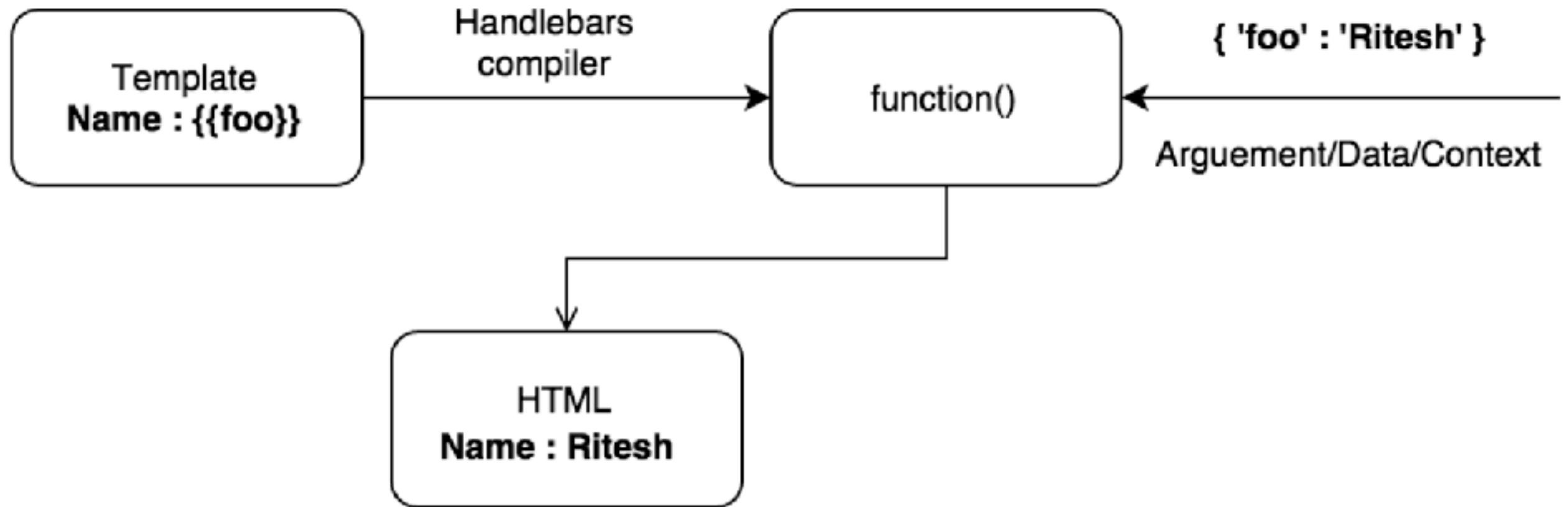
FEWD

TEMPLATING

TEMPLATING

- 1 Handlebars takes a template with the variables and compiles it into a function
- 2 This function is then executed by passing a JSON object as an argument. This JSON object is known as context and it contains the values of the variables used in the template
- 3 On its execution, the function returns the required HTML after replacing the variables of the template with their corresponding values

TEMPLATING



FEWD

.FOREACH()

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Converting from for to forEach

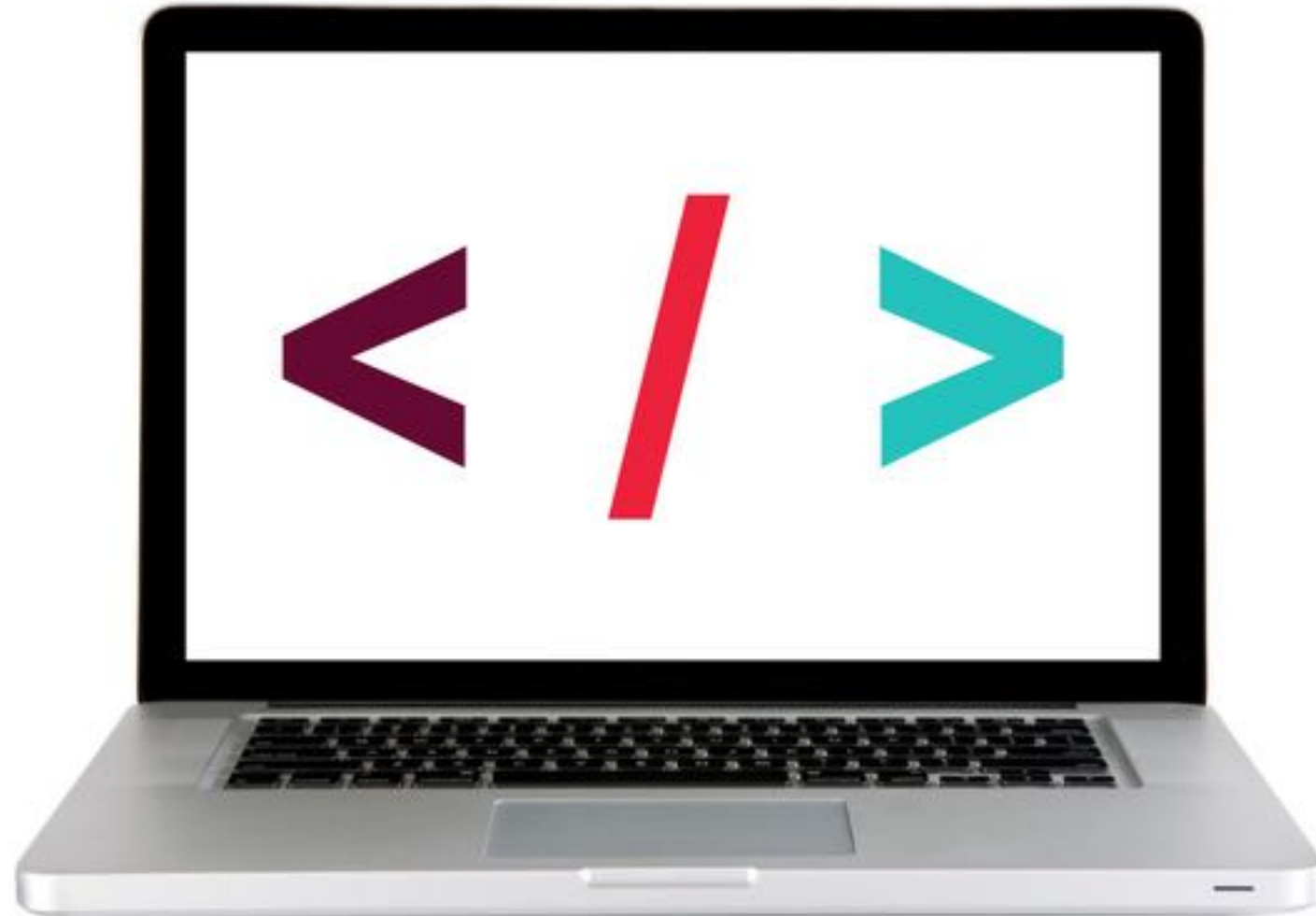
before

```
1  const items = ['item1', 'item2', 'item3'];
2  const copy = [];
3
4  for (let i=0; i<items.length; i++) {
5      copy.push(items[i])
6  }
```

after

```
1  const items = ['item1', 'item2', 'item3'];
2  const copy = [];
3
4  items.forEach(function(item){
5      copy.push(item)
6  });
```

LET'S TAKE A CLOSER LOOK



EXIT TICKETS