

FEWD WEEK 10 • CLASS 16:

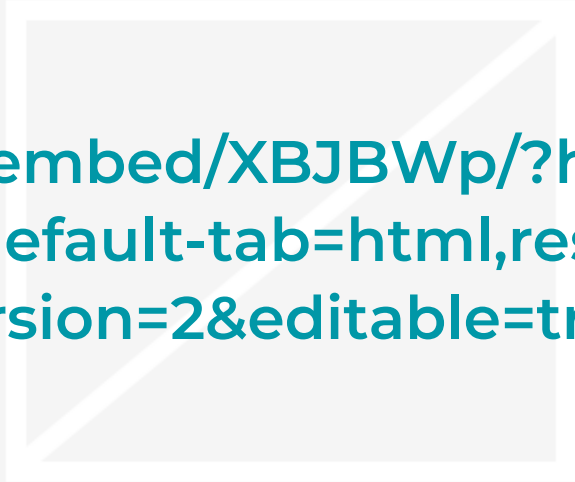
AJAX & Async

<https://slides.com/jennifermeade/fewd-10-16/live>



QUICK REVIEW

STYLE CHANGER



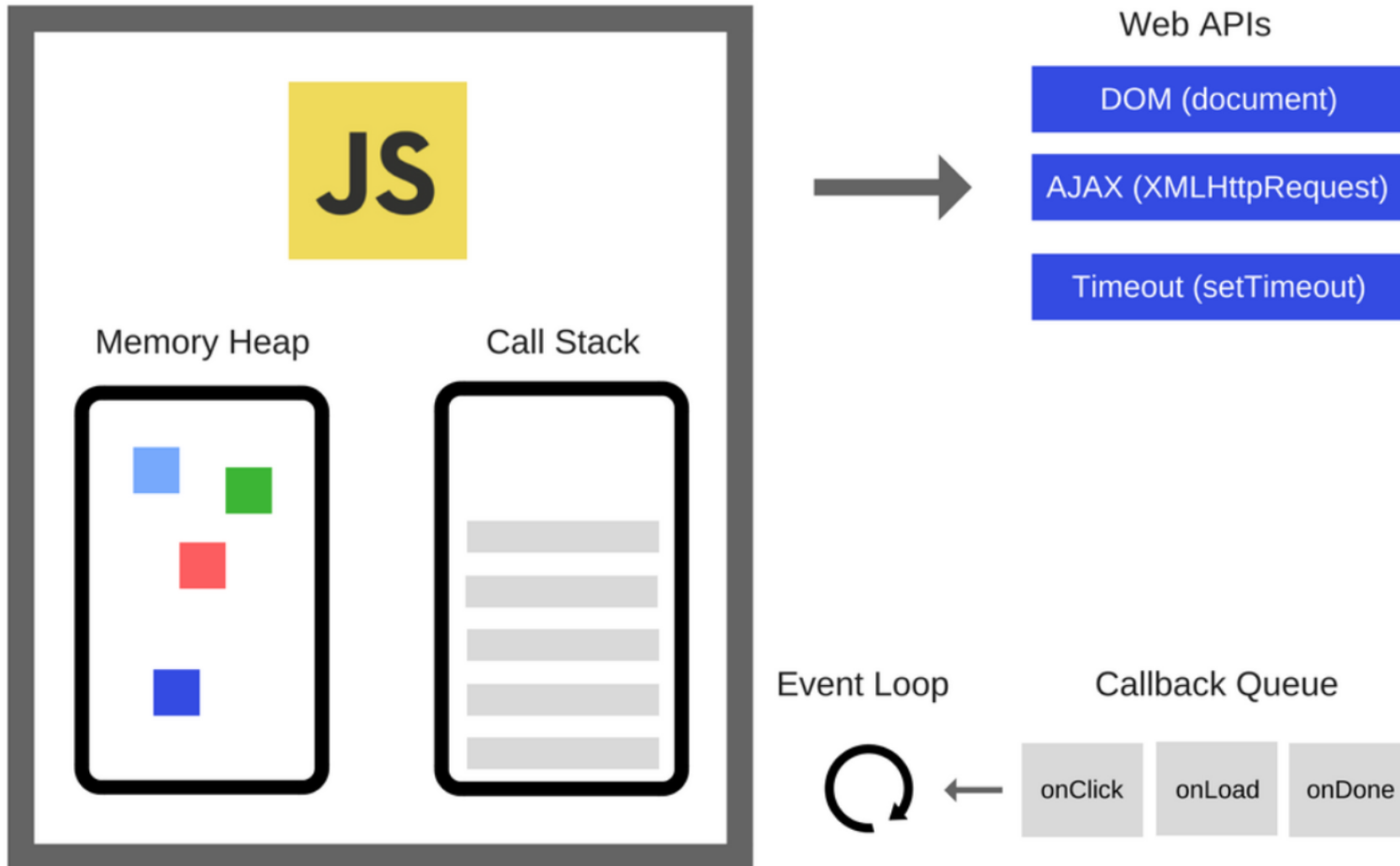
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<https://codepen.io/jme11/pen/XBJBWp>

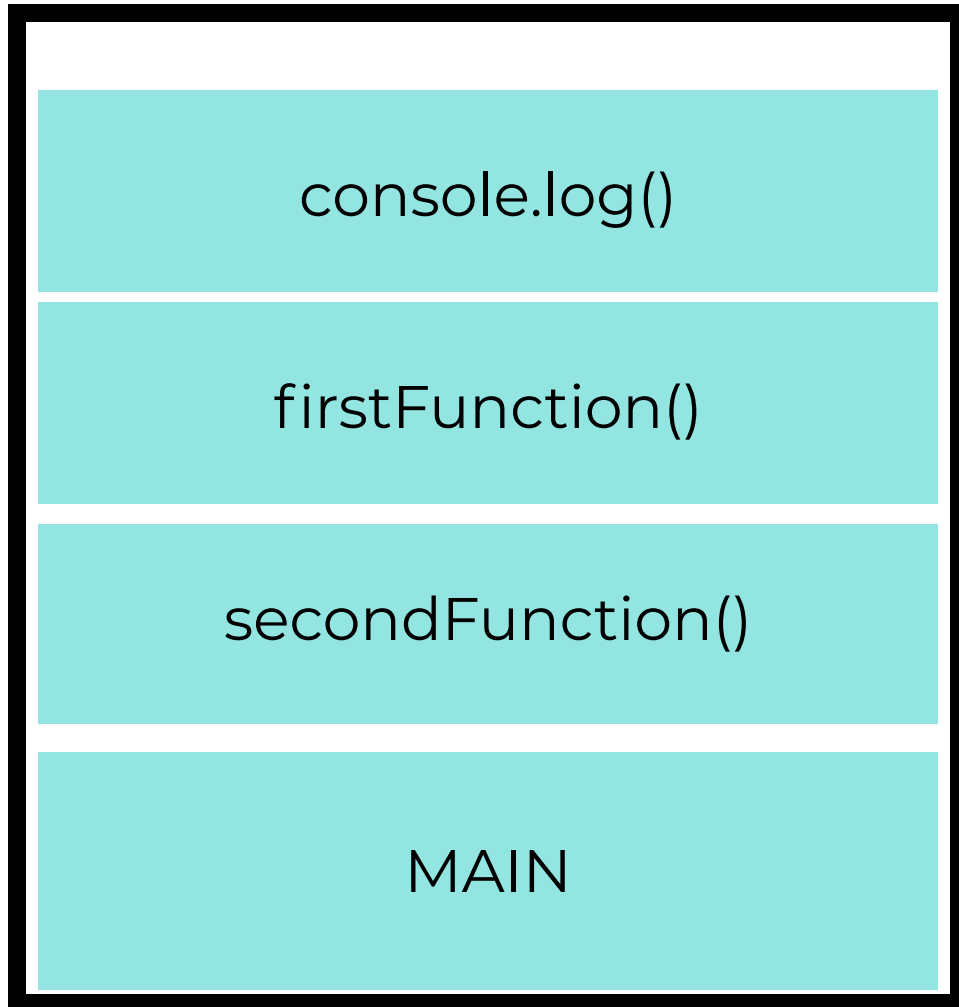
OBJECTIVES

- How the browser processes the code we give it.
- What Async means
- How to use AJAX to load data

HOW JS WORKS

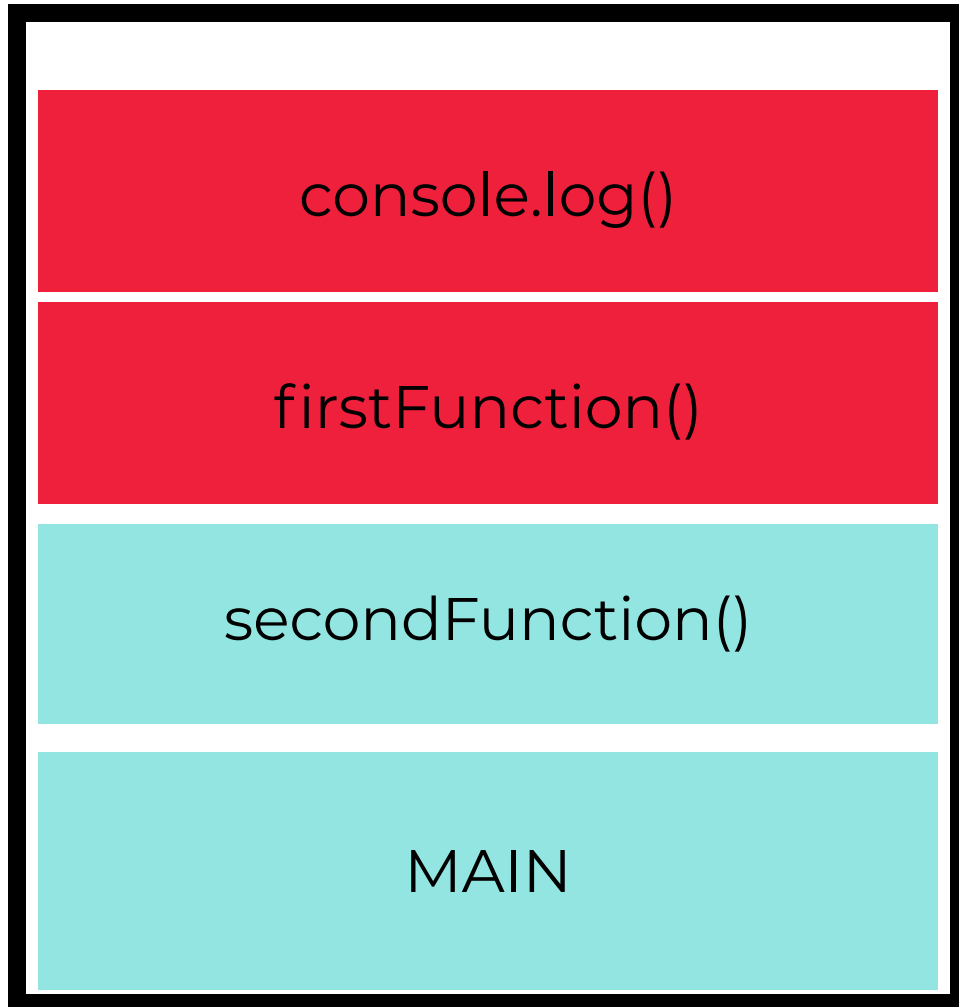


CALL STACK



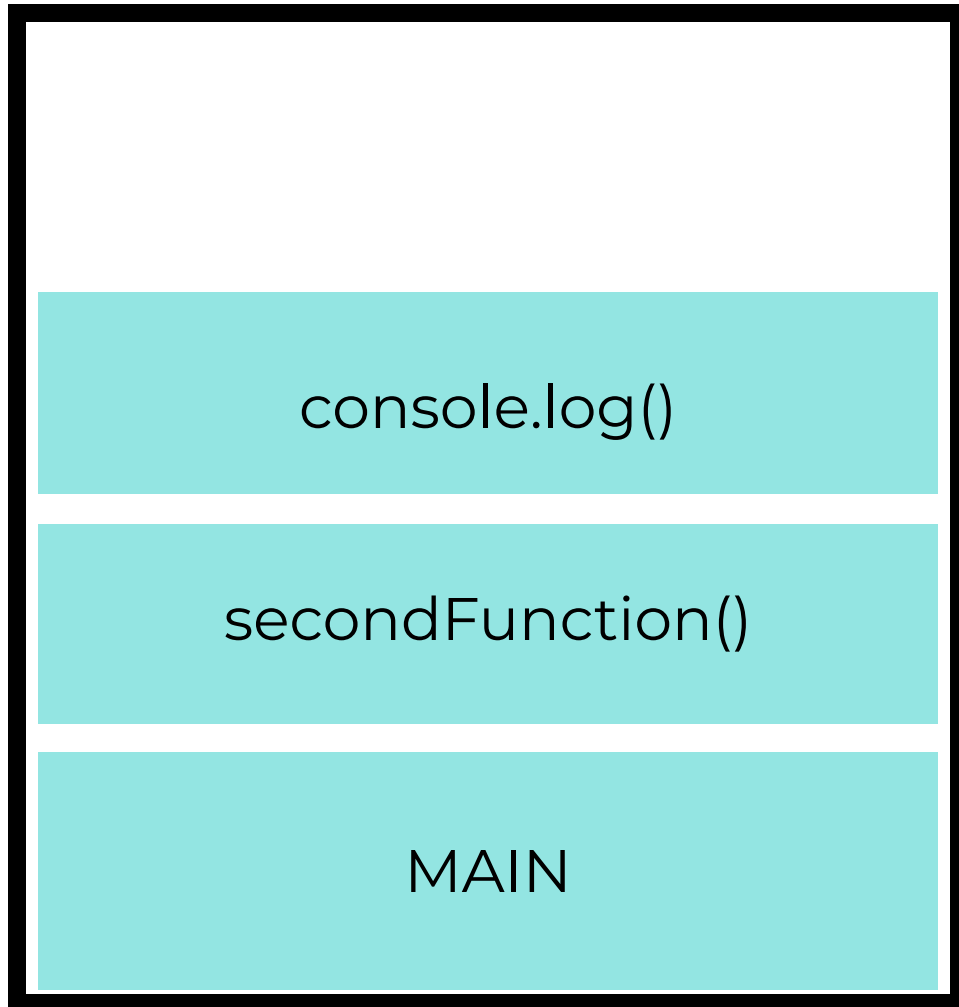
```
1 secondFunction();  
  
   console.log("Just a console log");  
  
3 function firstFunction() {  
    console.log("First Function");  
}  
  
2 function secondFunction() {  
    firstFunction();  
    console.log("Second Function");  
}
```

CALL STACK



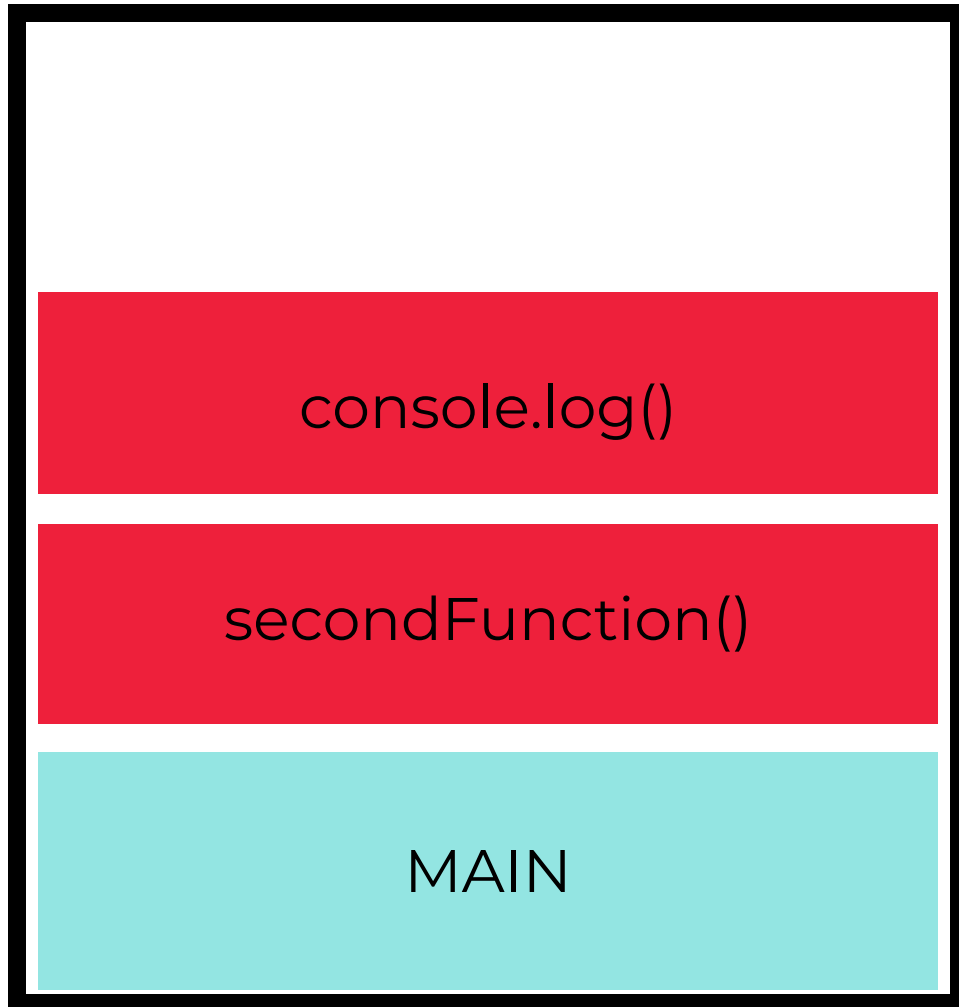
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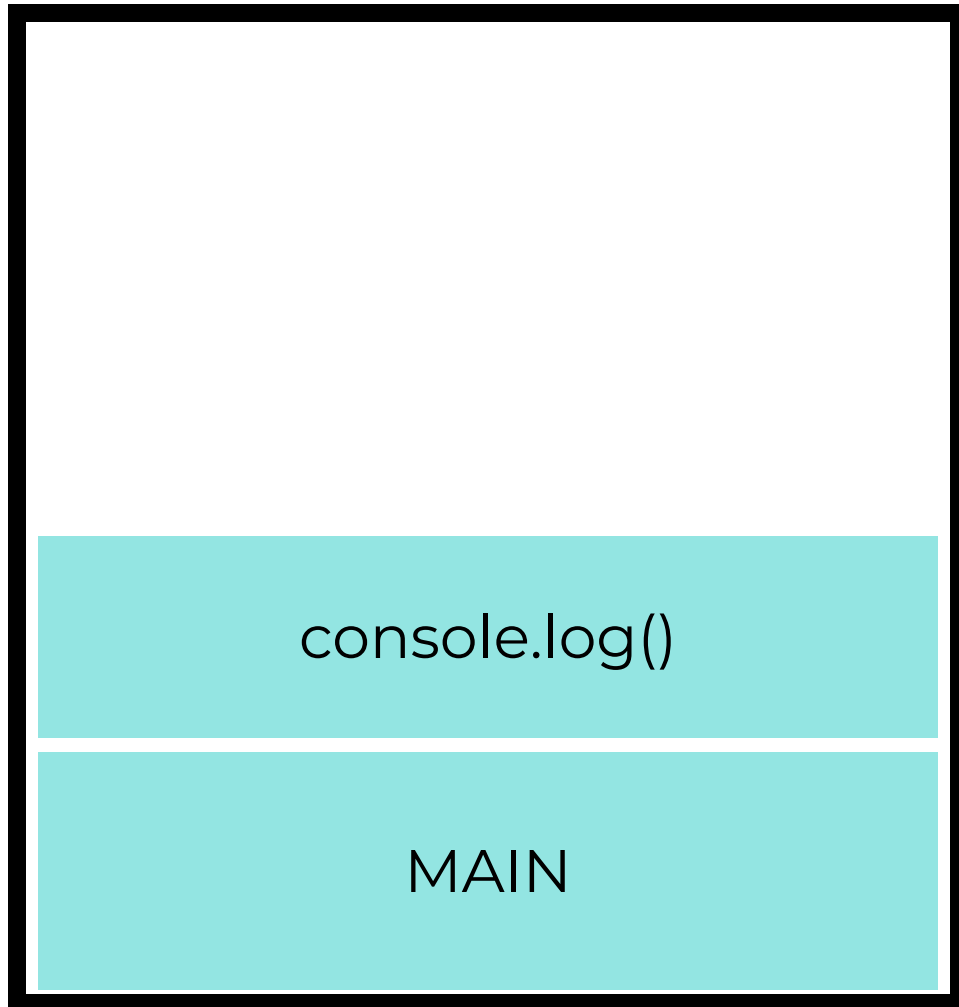
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CALL STACK



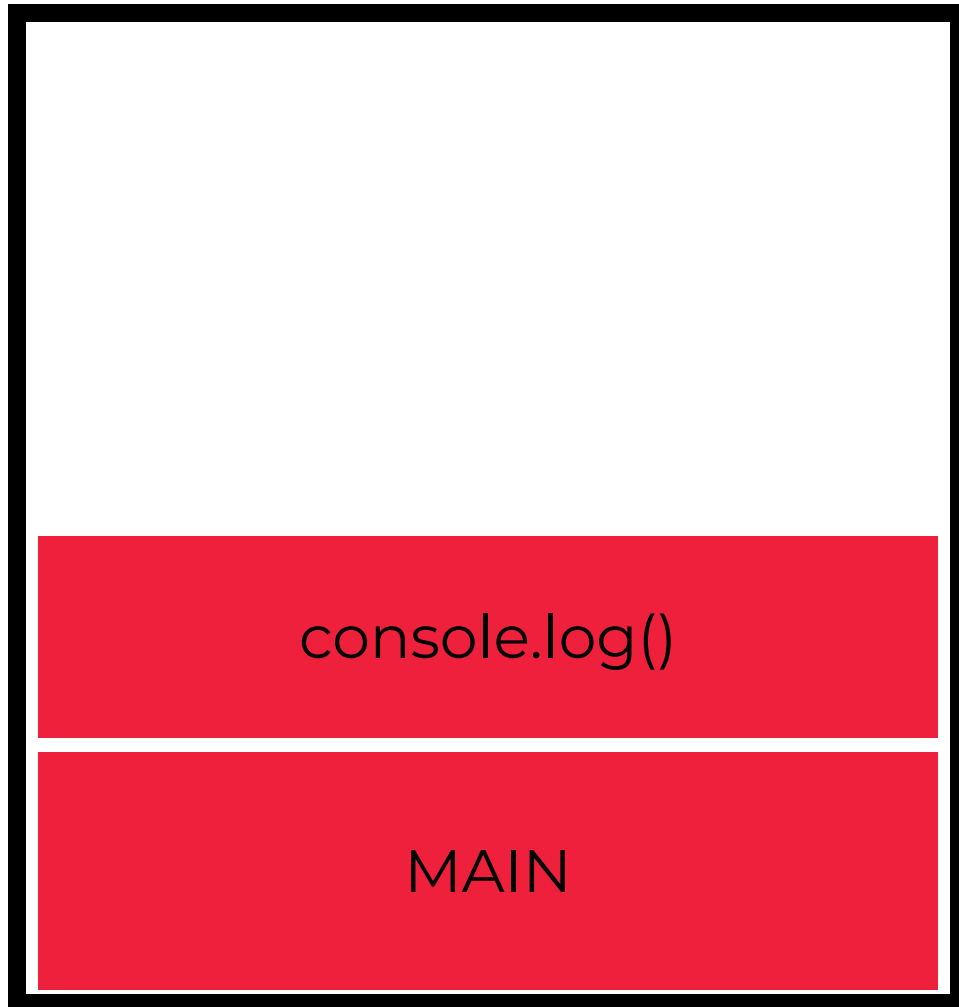
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CALL STACK



```
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CALL STACK



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```

ASYNCHRONOUS

ANSYNCHRONOUS FUNCTIONS

- `setInterval`: Runs a callback repeatedly on a specified interval.
- `setTimeout`: Runs a callback after a specific amount of time.
- `requestAnimationFrame`: Waits for the next repaint before adding the current animation.


AJAX

- AJAX stands for Asynchronous JavaScript And XML.
- Today, most endpoints return JSON instead of XML, but we still refer to these types of operations as **AJAX**.

TRY IT!

```
$.ajax({  
  url: 'https://someapi.url.com/?with_some_params=true',  
  dataType: 'json', /* usually */  
  success: function(data) {  
    /* Yay! We have data. Now, do something with it. */  
  },  
  error: function(error, textStatus, errorThrown) {  
    /* Booo... We got an error. */  
  }  
});
```

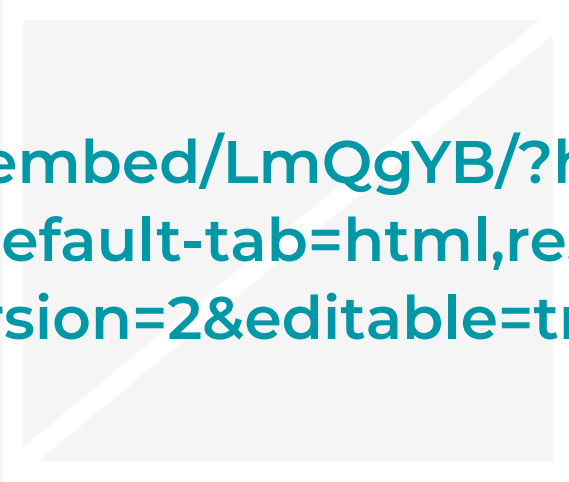
WORKING WITH APIS



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<https://codepen.io/jme11/pen/GdOLLg>

WEATHER APP

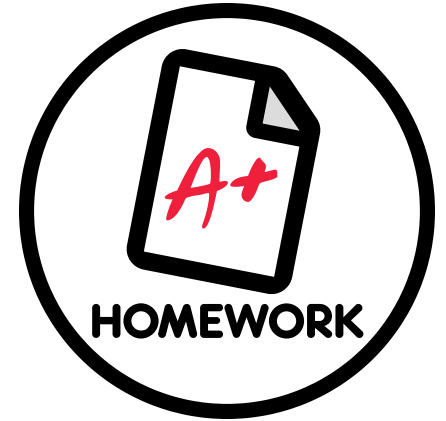


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<https://codepen.io/jme11/pen/LmQgYB>

HOMEWORK

- There are two weeks to finish the Javascript for your final projects
- Make an appointment with me to review your project and course progress
 - Thurs: Day by Skype
 - Fri: Day by Skype



EXIT SURVEY

<https://goo.gl/EB4XFw>

**GO BUILD
AWESOME THINGS!**