

PREP

WEEK 16



WEEK 14 ANNOUNCEMENTS



16 05.01.2017	Monday • Due: MP 8/Lab 12 (3:00 pm) • Due: Activity 13 (3:00 pm) • Outlier 9	Javascript V • JavaScript cheatsheet • JavaScript Final (practice)	Labs: Mon-Wed. • Out: LAB 13	Friday
Finals Week 05.08.2017 • Due: LAB 13; MP 9 (3:00 PM) • FINAL CALL ◦ Any extra credit due 8:00 PM (SUNDAY, MAY 7th)	Monday		Final Wednesday: 05.10.2017 • Foellinger Auditorium • 1:30 - 4:30 pm	

FINAL

LOGISTICS: WED 5/10 (1:30 - 4:30)

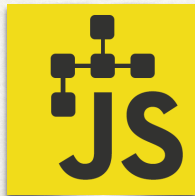
- Foelligner Auditorium
- BRING your I-card/student ID. It's a must.
- BRING #2 pencil, scantron's don't read ink
- Grab a scantron sheet and sit every other seat
- Leave the first 2 rows empty for late or people moved
- No phones, computers, 'smart' watches
- No questions are taken during the exam, just do the best you can
- We will start the exam at 1:45 (handing them out at 1:35)
- We will end the exam at 4:30

FINAL

PREPARATION

- JavaScript cheatsheet (linked on the course schedule)
- NO coding .. just reading and recognizing code
- re-read the repl.it classrooms (re-do on paper or comment out the solution)
- Practice exams are posted
- Possible Review Session ?
- Extra Office Hours

WEB TECH



DOCUMENT OBJECT MODEL

API

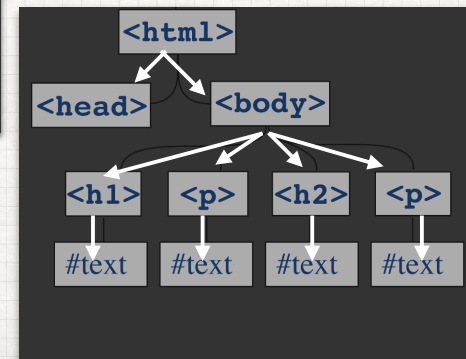
- DOM: Document Object Model
- a data structure (i.e. **tree**) that represents the HTML elements that can be accessed and manipulated via an API using javascript
- change node location (update, delete, insert)
- change node attributes (class, width, x, y)

DOM TREE

```
<html>
  <head></head>
  <body>
    <h1>Heading 1</h1>
    <p>Paragraph.</p>
    <h2>Heading 2</h2>
    <p>Paragraph.</p>
  </body>
</html>
```

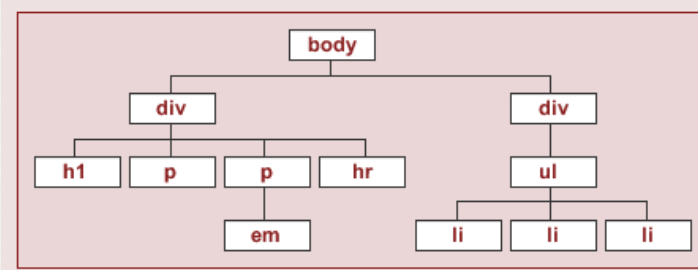
DOM TREE

```
<html>
  <head></head>
  <body>
    <h1>Heading 1</h1>
    <p>Paragraph.</p>
    <h2>Heading 2</h2>
    <p>Paragraph.</p>
  </body>
</html>
```



```
<body>
  <div id="content">
    <h1>Heading here</h1>
    <p>Lorem ipsum dolor sit amet.</p>
    <p>Lorem ipsum
    <em>sit</em> amet.</p>
    <hr>
  </div>
  <div id="nav">
    <ul>
      <li>item 1</li>
      <li>item 2</li>
      <li>item 3</li>
    </ul>
  </div>
</body>
```

DRAW ME



DEMO TIME

<https://repl.it/HaMI/2>

DOM - JavaScript Bridge

DOM API

document.getElementsByTagName('tagname');
Retrieves all elements with the tag name tagname and stores them in an array-like list

HTML: <div></div>

JS: **document.getElementsByTagName('div');**
css: div { }

DOM - JavaScript Bridge

DOM API

document.getElementById('id');
Retrieves the element with the given id as an object

HTML: <div id="header"></div>

JS: **document.getElementById('header');**
css: #header { }

DOM - JavaScript Bridge

DOM API

document.getElementsByClassName("classname");
Retrieves all elements with the class name classname and stores them in an array-like list

HTML: <div class="header"></div>

JS: **document.getElementsByClassName("header");**
css: div.header { }

DOM navigation

