

LING 408/508: Computational Techniques for Linguists

Lecture 16

Today's Topics

- Ungraded homework exercise
- Turning on developer mode in the browser
- CSS
- Javascript


Sample webpage

A webpage

| |
|-------|
| 1 2 3 |
| 4 5 6 |
| 7 8 9 |

First paragraph

Some text. Some more text.
A lot more text is needed to see word-wrap. A [link](#).



A SECOND PARAGRAPH.

1. First things first.
 - o One
 - o Two
2. Second things second.
3. Third things last.

Last modified: Thu Sep 18 17:28:57 MST 2014

```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML//EN">
<html> <head>
<title>A webpage</title>
</head>
<body>
  <h1>A webpage</h1>
<table style="border: 1px solid blue">
  <tr>
    <td>1</td>
    <td>2</td>
    <td>3</td>
  </tr>
  <tr>
    <td>4</td>
    <td>5</td>
    <td>6</td>
  </tr>
  <tr>
    <td>7</td>
    <td>8</td>
    <td>9</td>
  </tr>
</table>
```

Sample webpage

```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD
HTML//EN">
<html> <head>
<title>A webpage</title>
</head>
<body>
  <h1>A webpage</h1>

  <table style="border: 1px solid blue">
    <tr>
      <td>1</td>
      <td>2</td>
      <td>3</td>
    </tr>
    <tr>
      <td>4</td>
      <td>5</td>
```

```
<td>6</td>
  </tr>
  <tr>
    <td>7</td>
    <td>8</td>
    <td>9</td>
  </tr>
</table>
<tt><h2>First paragraph</h2></tt>
<p>
Some text. Some more text. <br> A lot more text is
needed to see
word-wrap. A <a href="http://google.com">link</a>.
<br>
<a href="http:google.com"></a>
</p>
```

```
<p style="font-family: bank gothic;font-size: 60;
color:white;background-color:black">

A second paragraph.
<ol>
  <li>First things first.
    <ul>
      <li>One</li><li>Two</li>
    </ul>
  </li>
  <li>Second things second.</li>
  <li>Third things last.</li>
</ol>
</p>

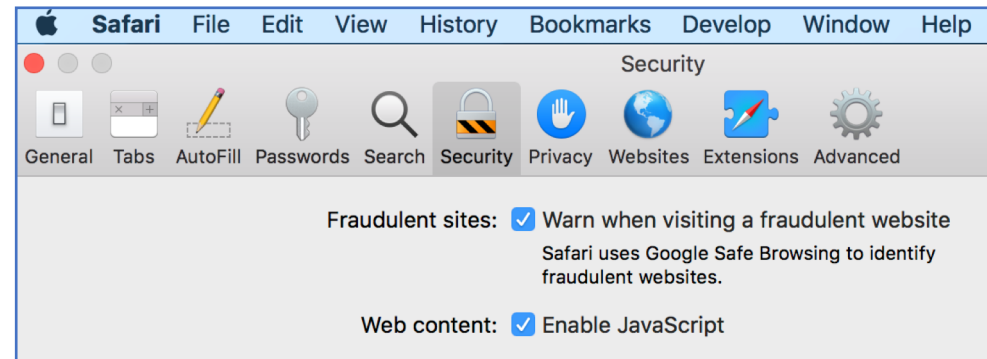
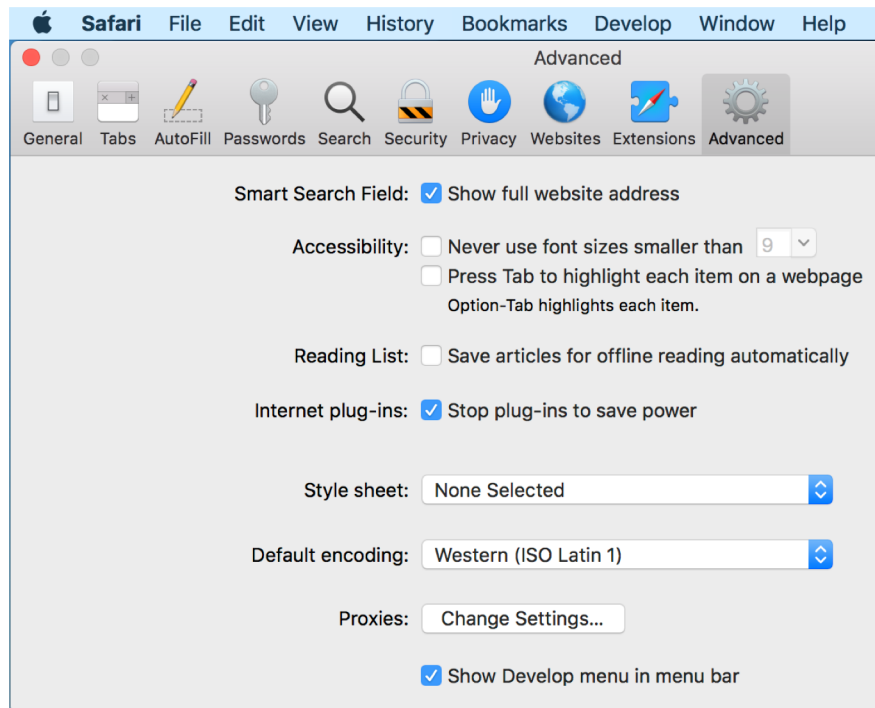
<hr>
<address></address>
<!-- hhmts start -->Last modified: Thu Sep 18
17:28:57 MST 2014 <!-- hhmts end -->
</body> </html>
```

Ungraded Homework Exercise

- Build your own html file.
- Play with the tags
- base64 encoding (Mac and Linux):
 - `openssl base64 -in imagefile -out encoded.txt`
- Embed a picture of yourself encoded in base64
 - ``

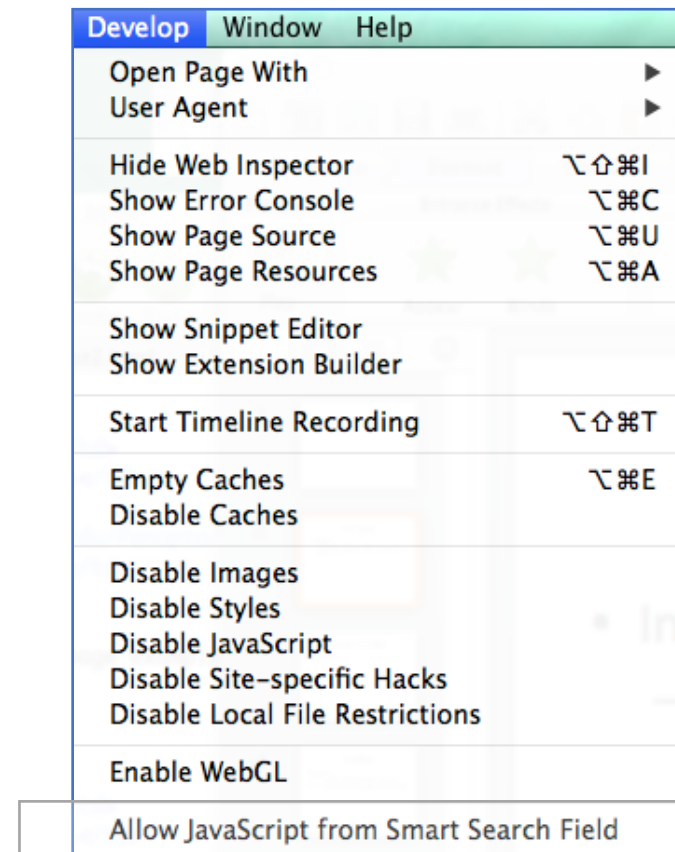
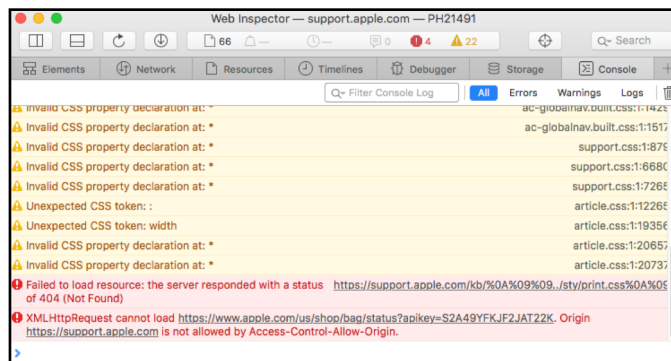
Debugging

- In Safari:
 - Preferences > Advanced > **Show Develop menu in menu bar**



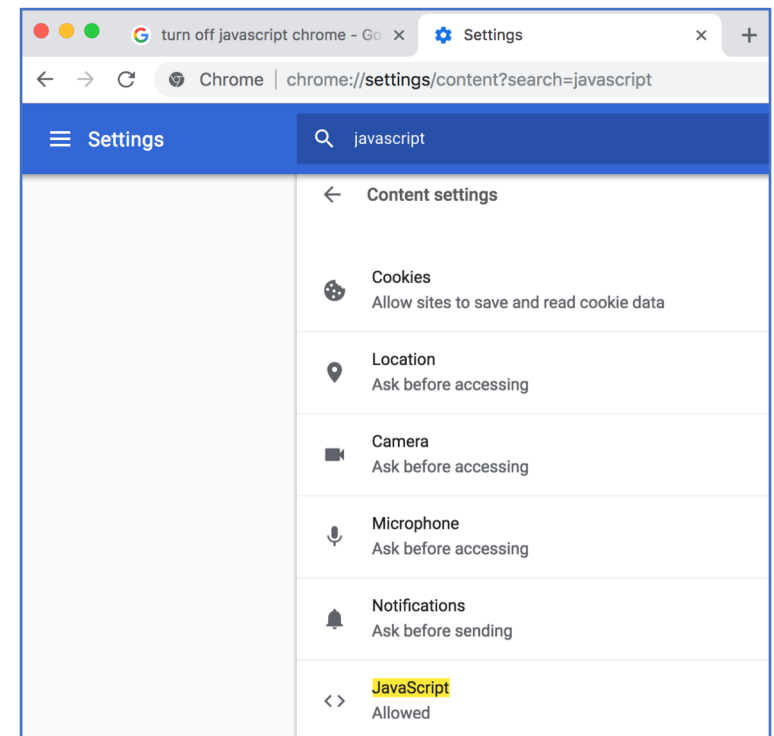
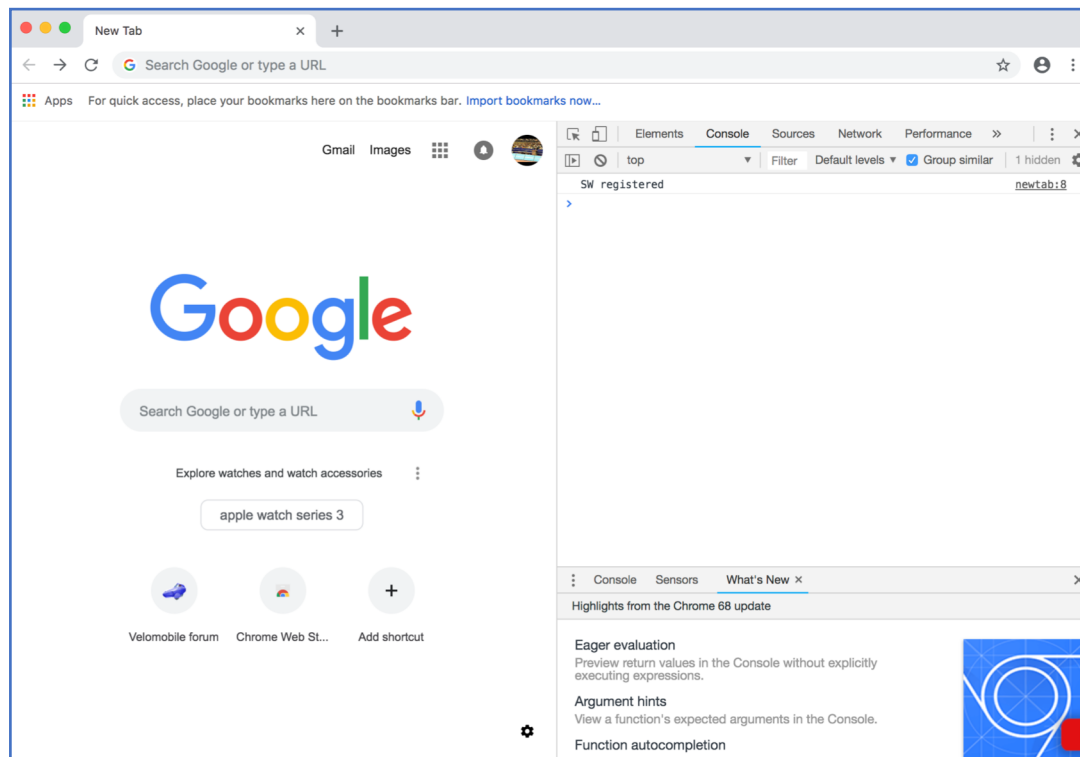
Debugging

- In the Develop menu:
 - *Allow JavaScript from Smart Search Field*
 - **javascript:** ok in address bar
 - Show Page Source
 - Show Web Inspector



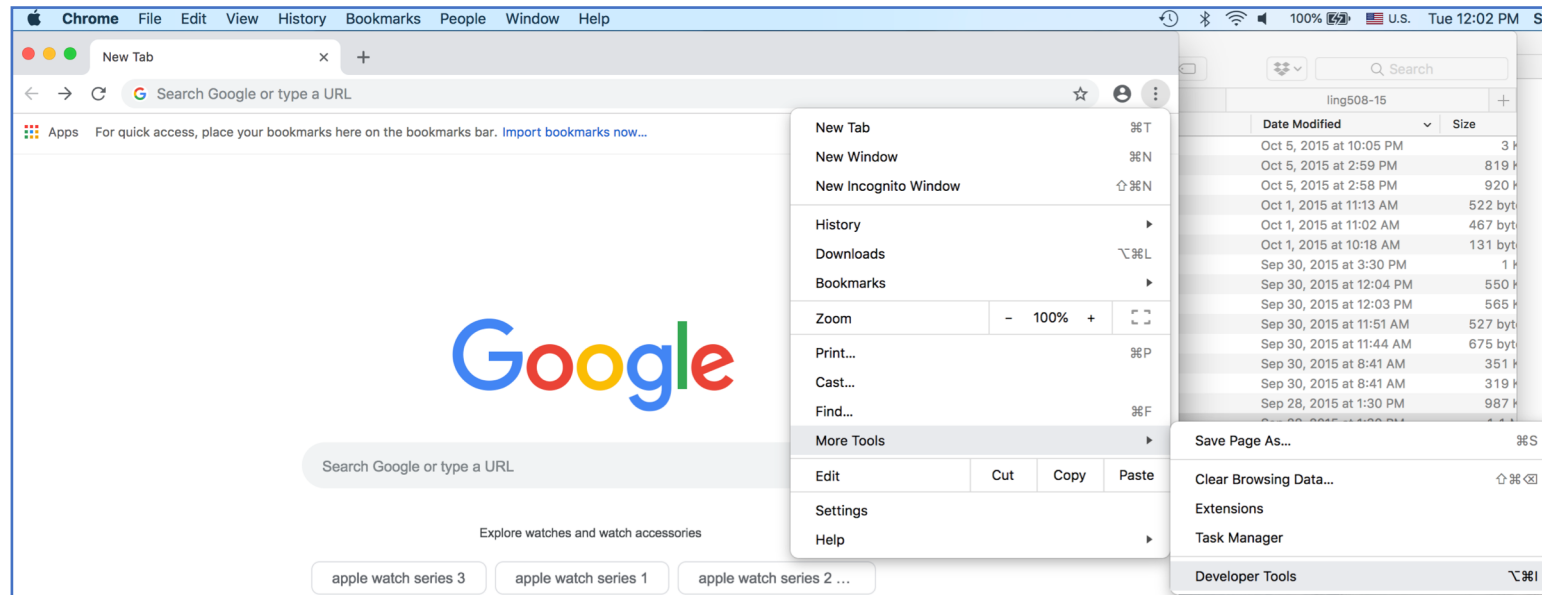
Debugging

- Developer Tools and Javascript in Google Chrome:



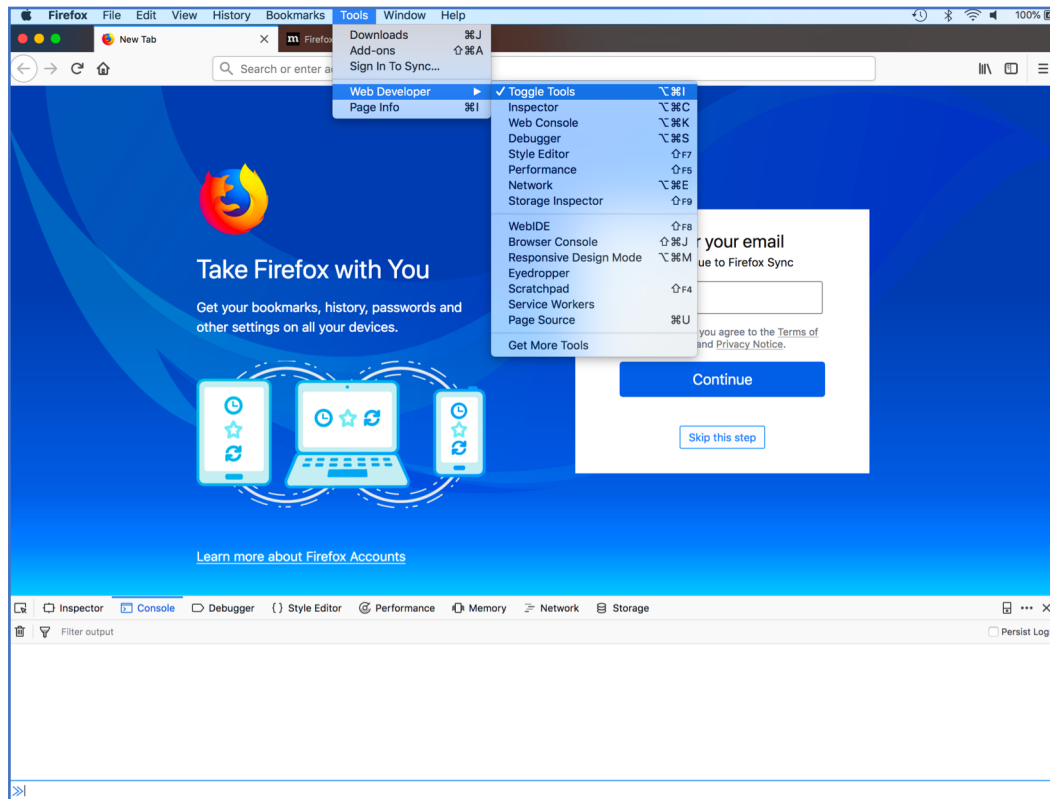
Debugging

- In Google Chrome:



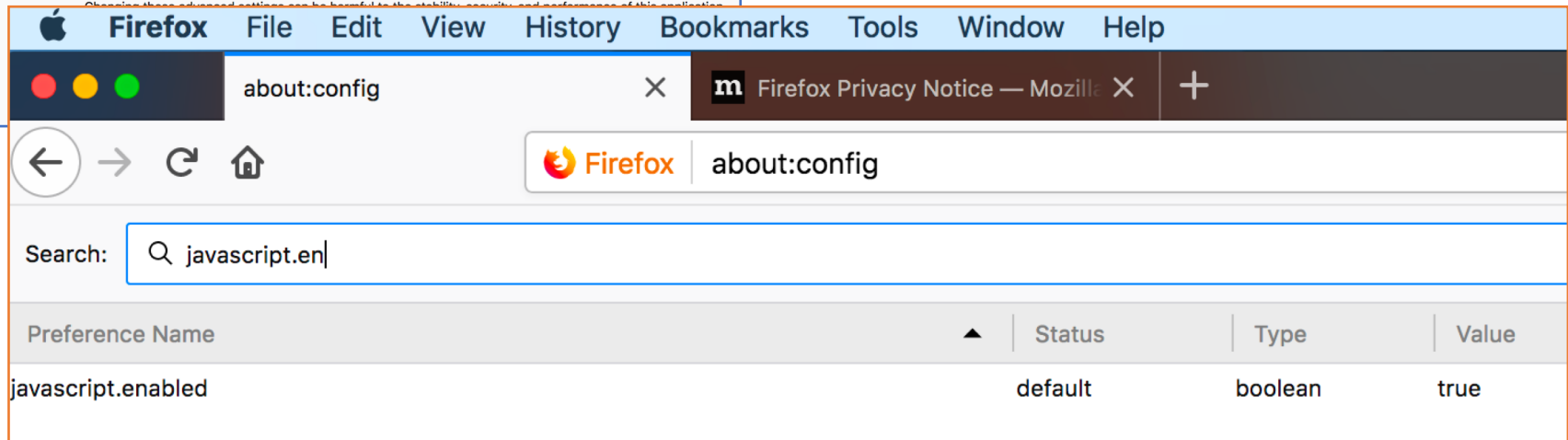
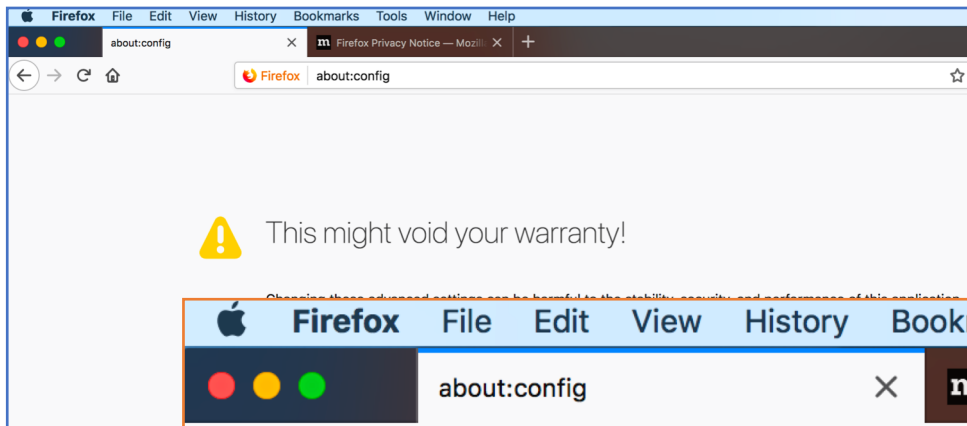
Debugging

- Firefox:



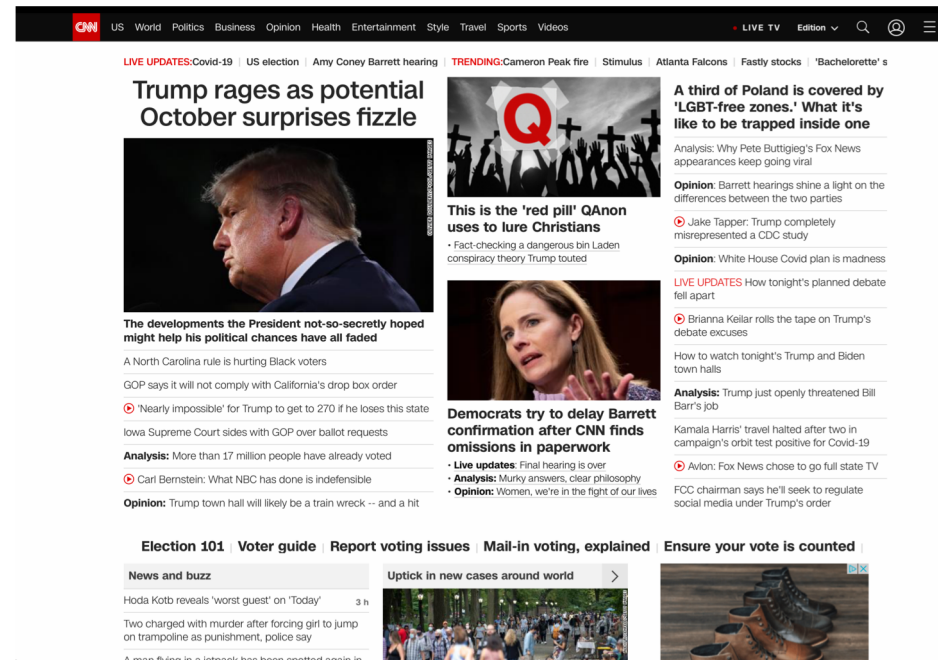
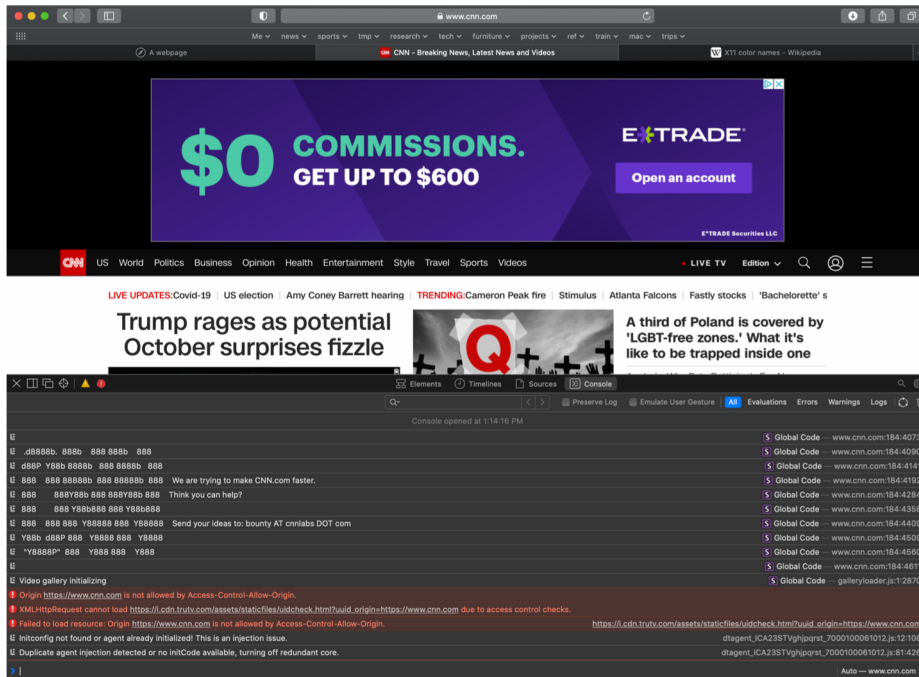
Debugging

- Firefox:



CNN Webpage

Look at the errors on loading cnn.com!



Look at the bounty offered to developers! ↑

CSS

```
body {  
    background-color: lightblue;  
}  
  
h1 {  
    color: white;  
    text-align: center;  
}  
  
p {  
    font-family: verdana;  
    font-size: 20px;  
}
```

| Selector | Example | Example description |
|---------------------------|------------|--|
| <i>.class</i> | .intro | Selects all elements with class="intro" |
| <i>#id</i> | #firstname | Selects the element with id="firstname" |
| <i>*</i> | * | Selects all elements |
| <i>element</i> | p | Selects all <p> elements |
| <i>element,element</i> | div, p | Selects all <div> elements and all <p> elements |
| <i>element element</i> | div p | Selects all <p> elements inside <div> elements |
| <i>element>element</i> | div > p | Selects all <p> elements where the parent is a <div> element |

<https://www.w3schools.com/css/>

CSS

- Good way to see what's possible.
 - Google, e.g. [css table style](https://www.w3schools.com/css/css_table.asp)
 - https://www.w3schools.com/css/css_table.asp

CSS Tables

[← Previous](#) [Next →](#)

The look of an HTML table can be greatly improved with CSS:

| Company | Contact | Country |
|------------------------------|--------------------|---------|
| Alfreds Futterkiste | Maria Anders | Germany |
| Berglunds snabbköp | Christina Berglund | Sweden |
| Centro comercial Moctezuma | Francisco Chang | Mexico |
| Ernst Handel | Roland Mendel | Austria |
| Island Trading | Helen Bennett | UK |
| Königlich Essen | Philip Cramer | Germany |
| Laughing Bacchus Winecellars | Yoshi Tannamuri | Canada |
| Magazzini Alimentari Riuniti | Giovanni Rovelli | Italy |

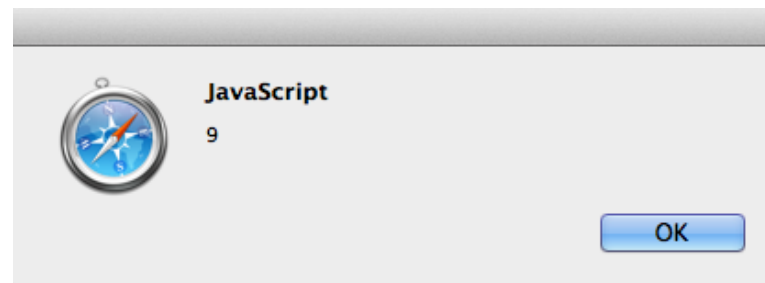
[Try it Yourself »](#)

Javascript pop-up notification

- For browser programming:
 - `alert(string)`
 - *no print function*
- Example (from address bar):
 - `javascript:alert(4+5)`

Safari doesn't allow JavaScript from the Smart Search Field.

To allow this, choose "Allow JavaScript from Smart Search Field" from the Develop menu.



- Changing the html document:
 - `document.write(string)`
 - `html_element.innerHTML = "string"`

overwrites html document
modifies html_element

Javascript pop-up notification

