HTML Recap

CISC-2350-R01 | Fall 2017 | Week 4

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Today's Agenda

- Attendance
- Review: HTML Forms & Inputs
- Review homework reading & questions
- Homework show & tell
- HTML recap
- Intro to Developer Tools & in-class exercise
- Intro to midterm assignment
- Homework assignment

Class reschedule: 10/2 -> 10/5

https://beta.doodle.com/poll/y582ne4fq2gs4xa3#table

Review: HTML Forms and Inputs

Forms

- Allows to collect information from visitors to your site
- Can include text input, selectors, buttons, upload files, drop-down boxes, and more
- Form examples:
  - search boxes
  - shopping online
  - registering for newsletters, etc.
- These end up being heavily integrated with JavaScript and server-side programming... but not in this class.

ADDING TEXT:

Text input (single-line)
Used for a single line of text such as email addresses and names.

Password input
Like a single line text box but it masks the characters entered.

Text area (multi-line)
For longer areas of text, such as messages and comments.

MAKING CHOICES:

Radio buttons
For use when a user must select one of a number of options.

Checkboxes
When a user can select and unselect one or more options.

Drop-down boxes
When a user must pick one of a number of options from a list.

SUBMITTING FORMS:

Submit buttons
To submit data from your form to another web page.

Image buttons
Similar to submit buttons but they allow you to use an image.

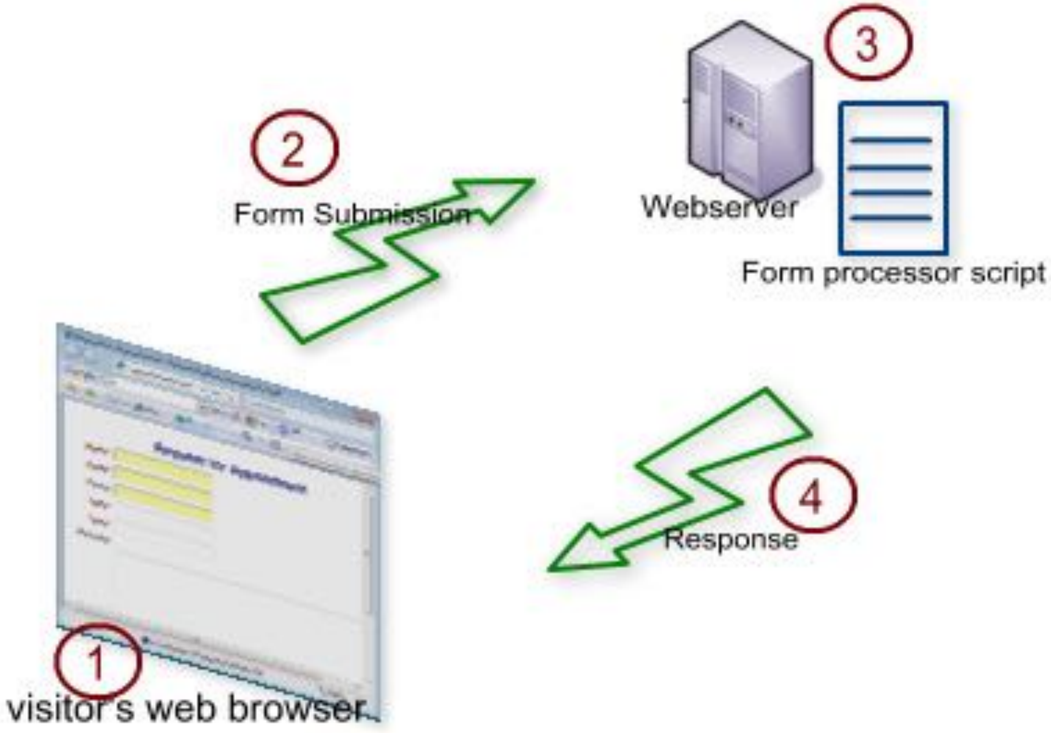
UPLOADING FILES:

File upload
Allows users to upload files (e.g. images) to a website.

FROM JOHN DUCKET “HTML AND CSS”

How forms work

- User fills in the form and submits information
- The name of the form and value submitted is being sent to the server
- Server processes information, saves it in the database
- Server sends back information by creating a new page in the browser

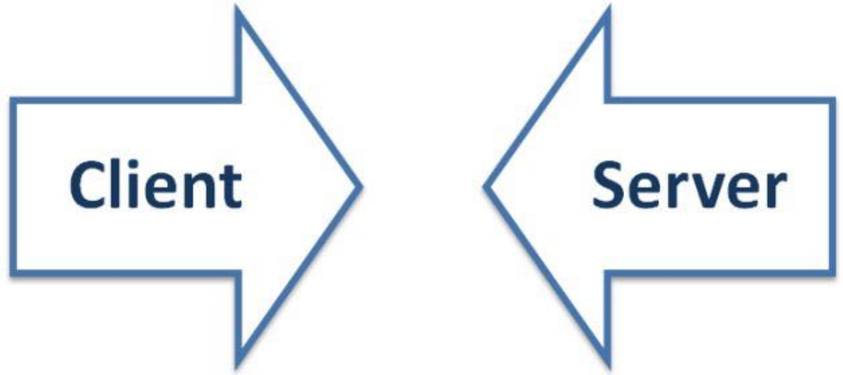


Client vs. server

Client-side programming mostly deals with the user interface with which the user interacts
in the web - what we see in the browser (HTML, CSS, JavaScript)

Server-side programming is the program that runs directly on
a server

- whenever there is some user interaction needed / website is dynamic, there is some server-side programming included



Server-side programming

Usage examples:

- creating, reading, updating databases
- saving any data into database
- creating and saving user profiles

Server-side programming languages:

- JavaScript: nodejs, expressJS (routing, etc.)
- PHP
- C#, C++
- Java
- Python
- Ruby on Rails, etc.

You can read more documentation about server-side programming **here**.

Questions from Slack

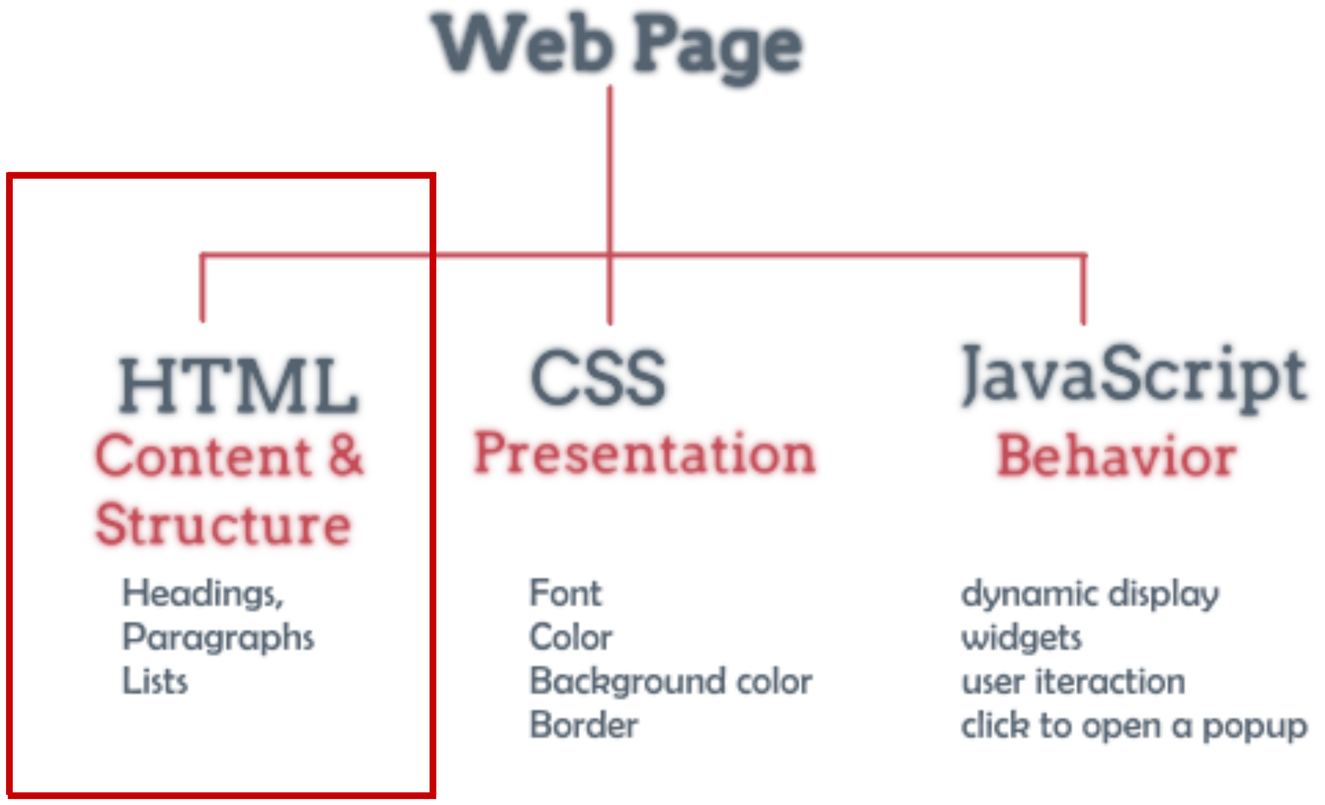
1. What is the difference between "datetime-local" and "time" input types?
2. How can you mix inputs with styling to place them on different spots of your website?
3. How is the email address automatically validated?
4. How would a comment submitted in a form change the html code of the webpage? Would it just add another <p> element below?
5. Once the information is submitted in a form, where does that information go? Does it alter the HTML code in any way?
6. Can you use C++ and HTML to submit answers from html and get an output from a user created program in C++?
7. Github file upload size: max 100MB, can resize video using: https://video.online-convert.com/convert-to-mp4
8. Other questions?

Homework show & tell

http://bit.ly/2xUmxI5

HTML recap


HTML
CSS
JS

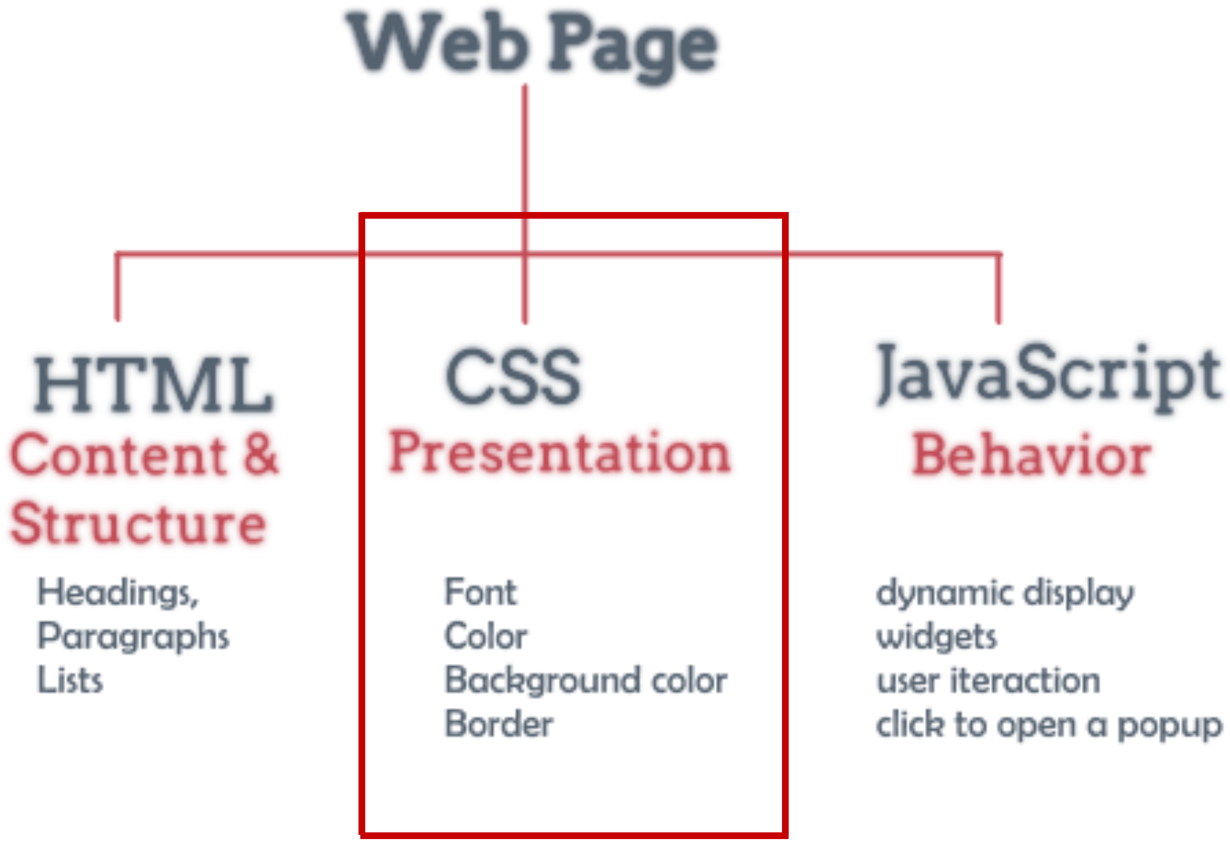

Web Page
HTML
Content &
Structure
Headings,
Paragraphs
Lists
CSS
Presentation
Font
Color
Background color
Border
JavaScript
Behavior
dynamic display
widgets
user iteraction
click to open a popup

Topics covered

1. HTML Structure
2. HTML tags: text, lists, links, images
3. HTML Media Elements: iframes, video, audio
4. HTML Tables
5. HTML Forms & Inputs
6. File structure & multiple HTML pages
7. Github & Github Pages

More documentation on **W3 Schools** and **Mozilla**.

Next week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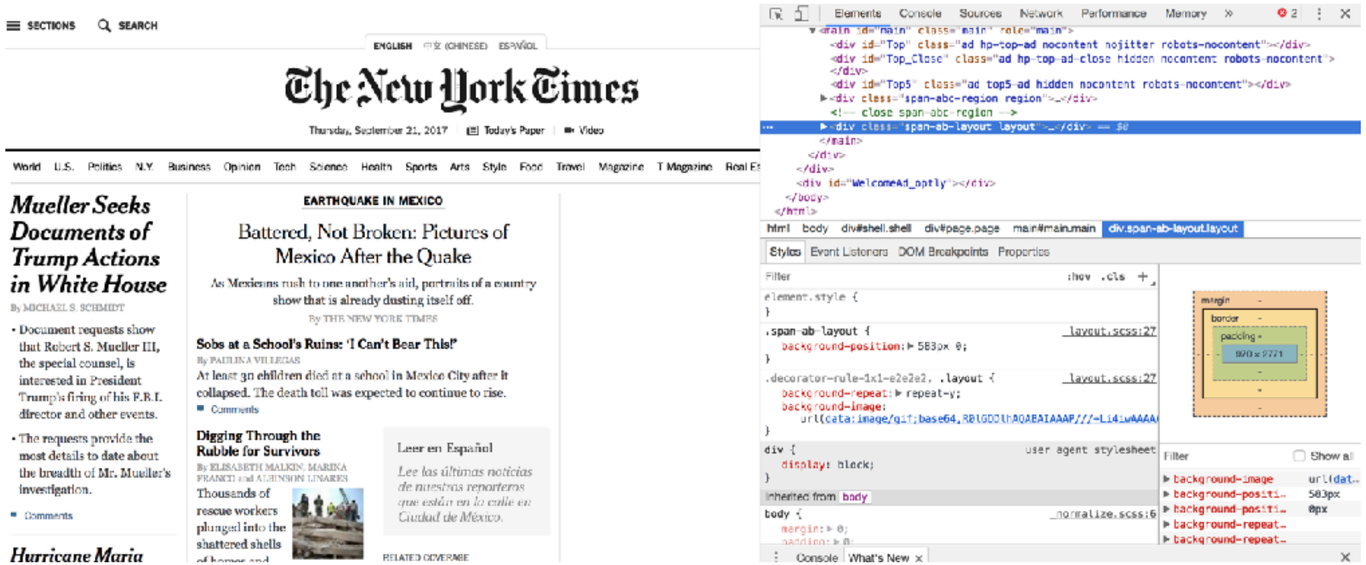
Intro to Developer tools

Developer Tools

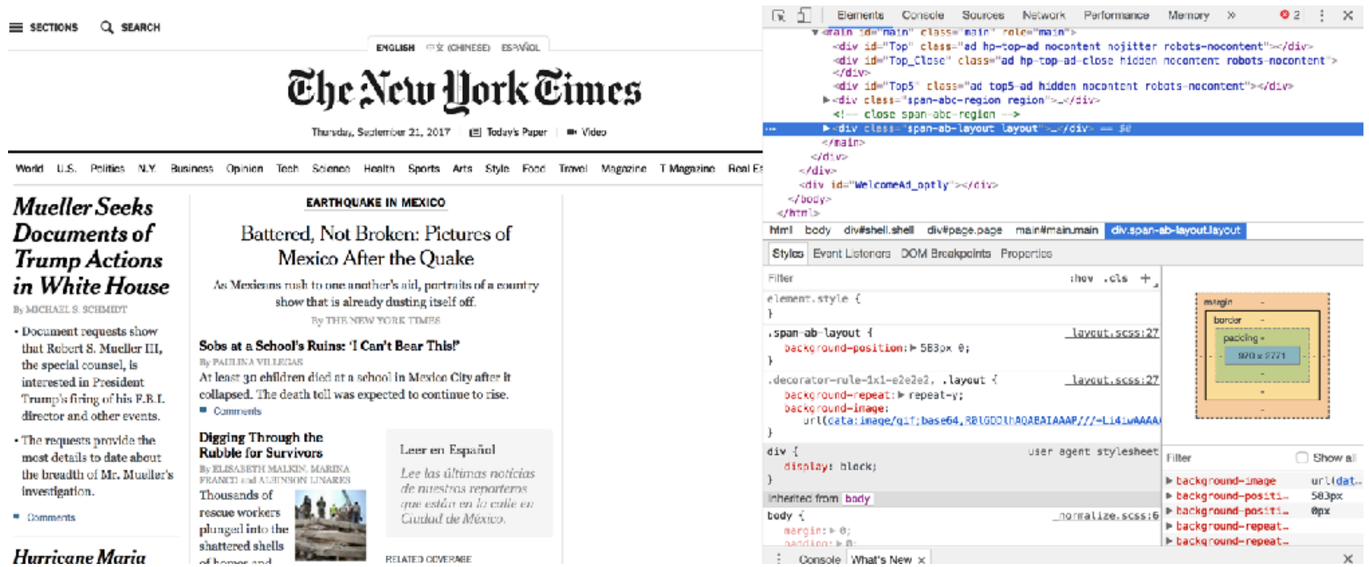
Tools that provide access to website debugging:

- to see / inspect which assets the web has (HTML, CSS, JavaScript)
- layout issues
- how long they take to load
- **lets to modify the page**

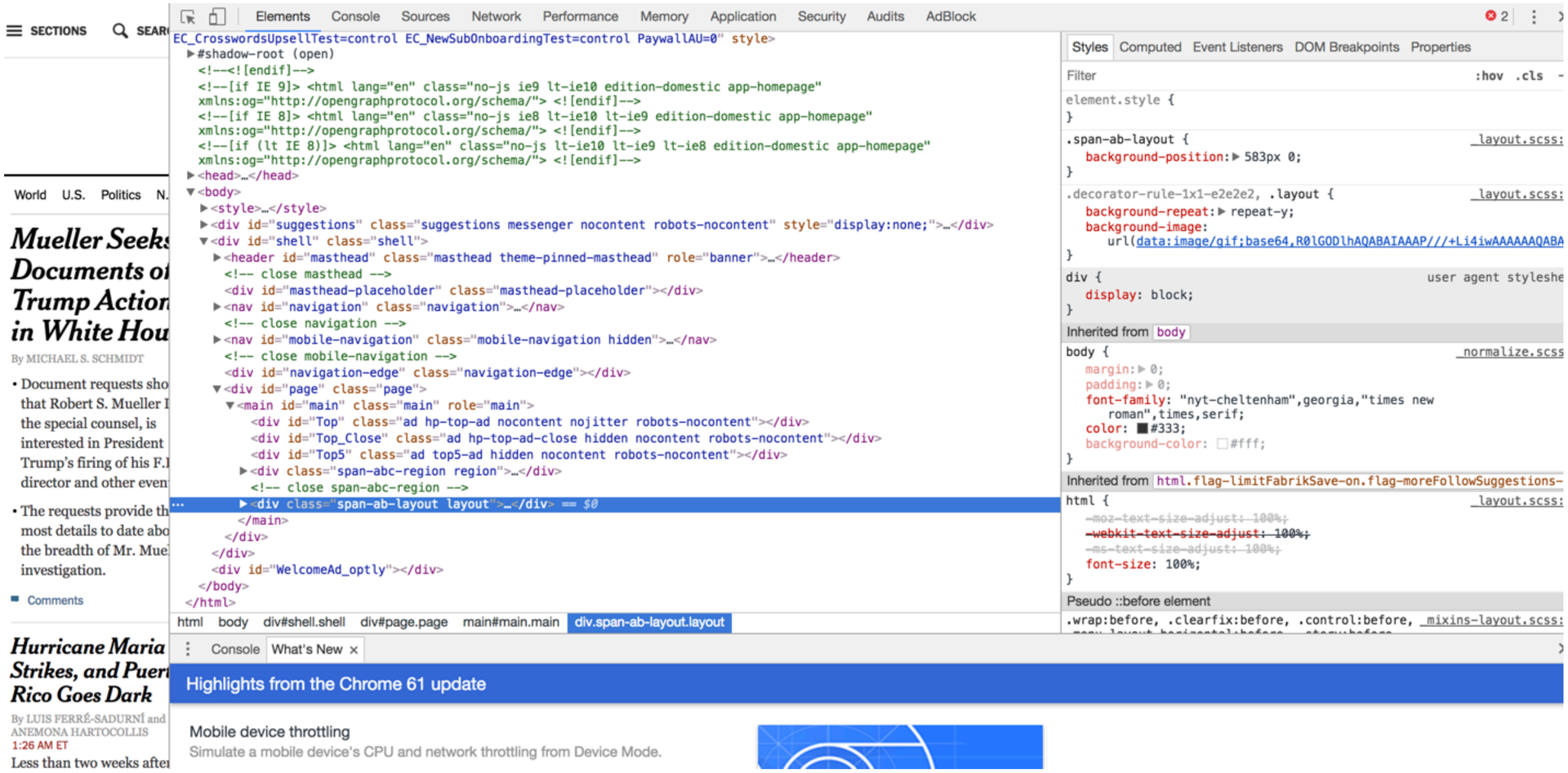


Accessing Developer Tools

- Chrome menu: View -> Developer -> Developer Tools
- Right click on the page -> Inspect
- Cmd + opt + I

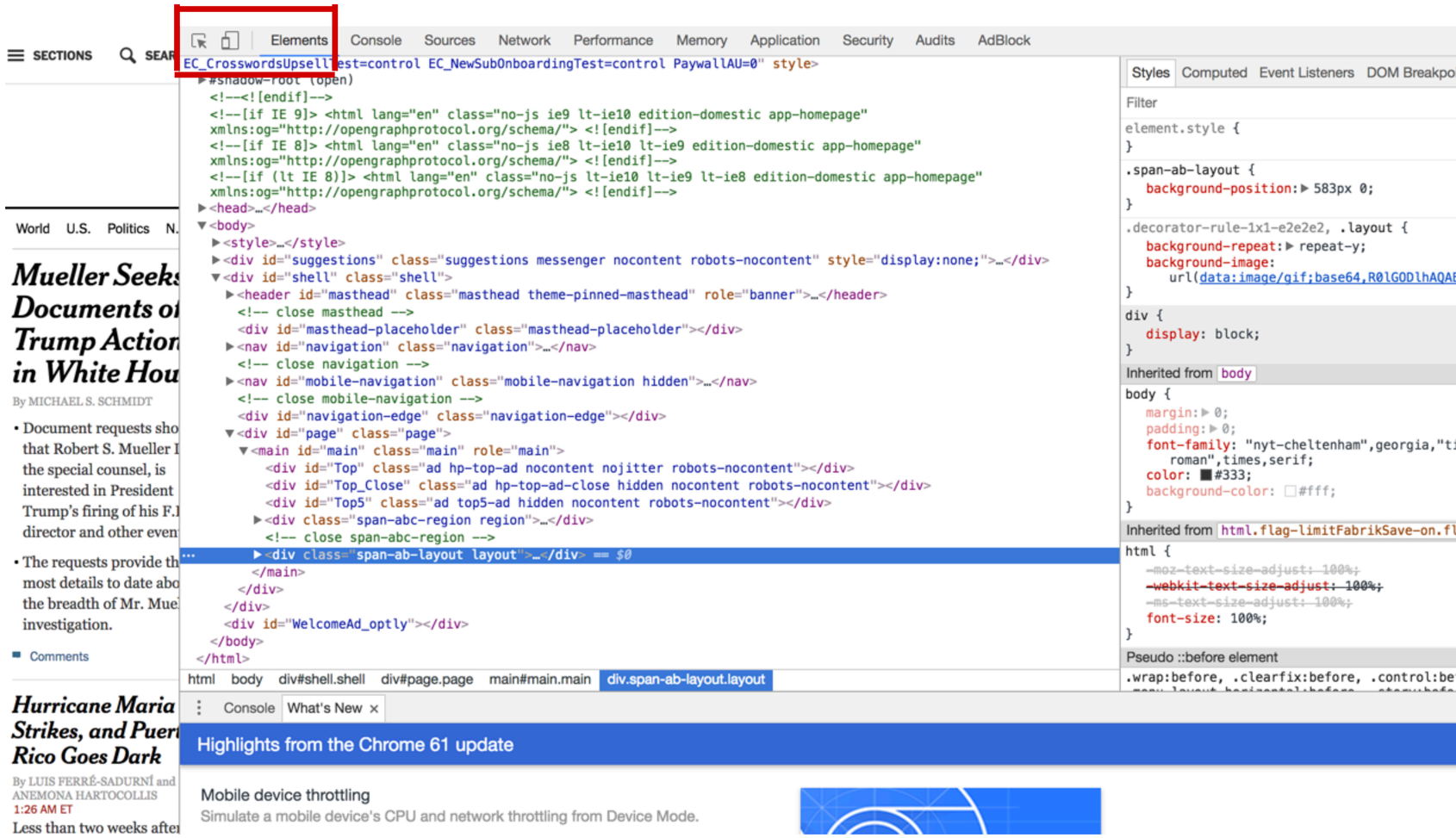


Developer Tools Window



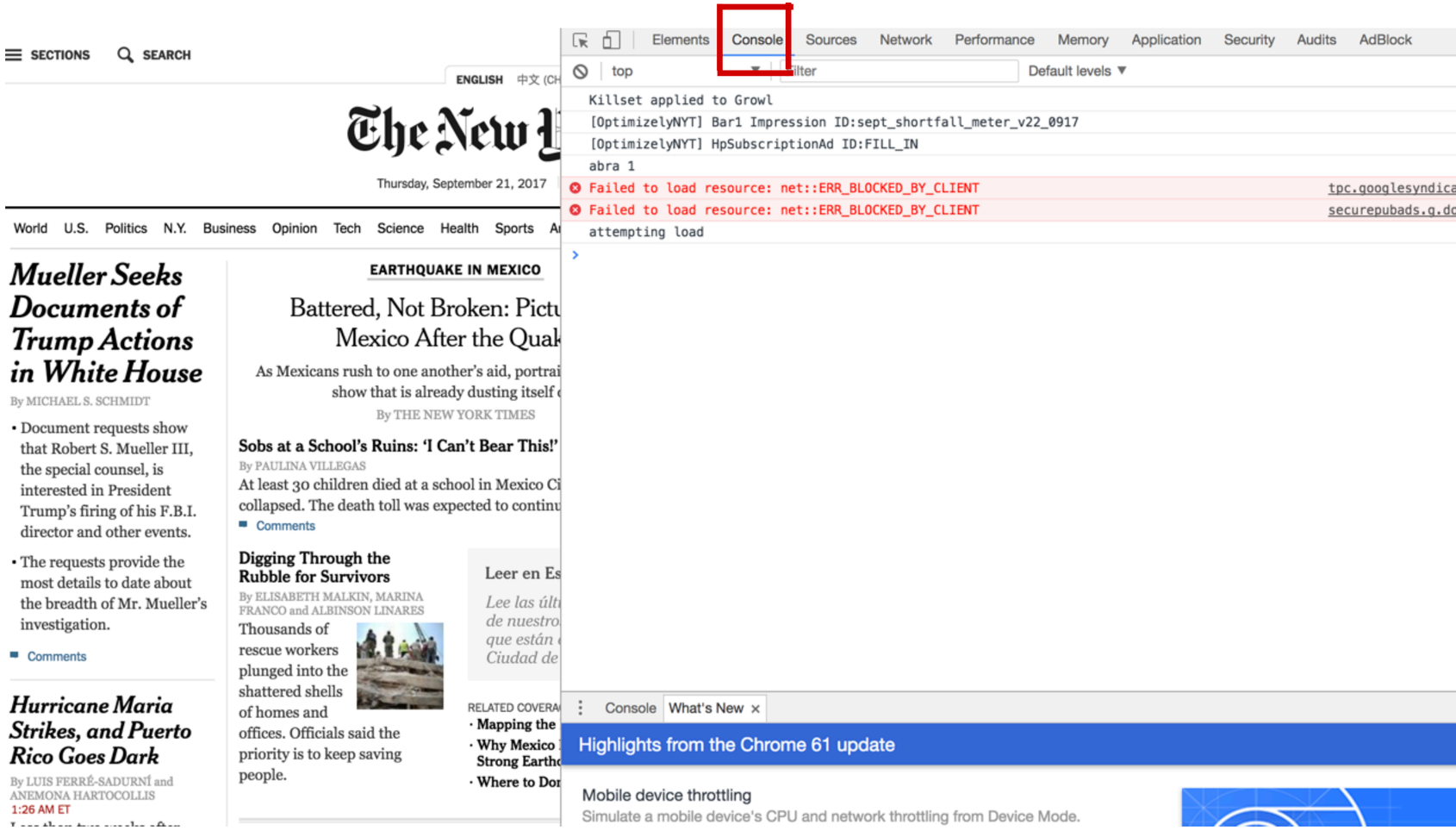
Dev Tools: Elements

- Layout and elements of the page
- Live edit of HTML, CSS



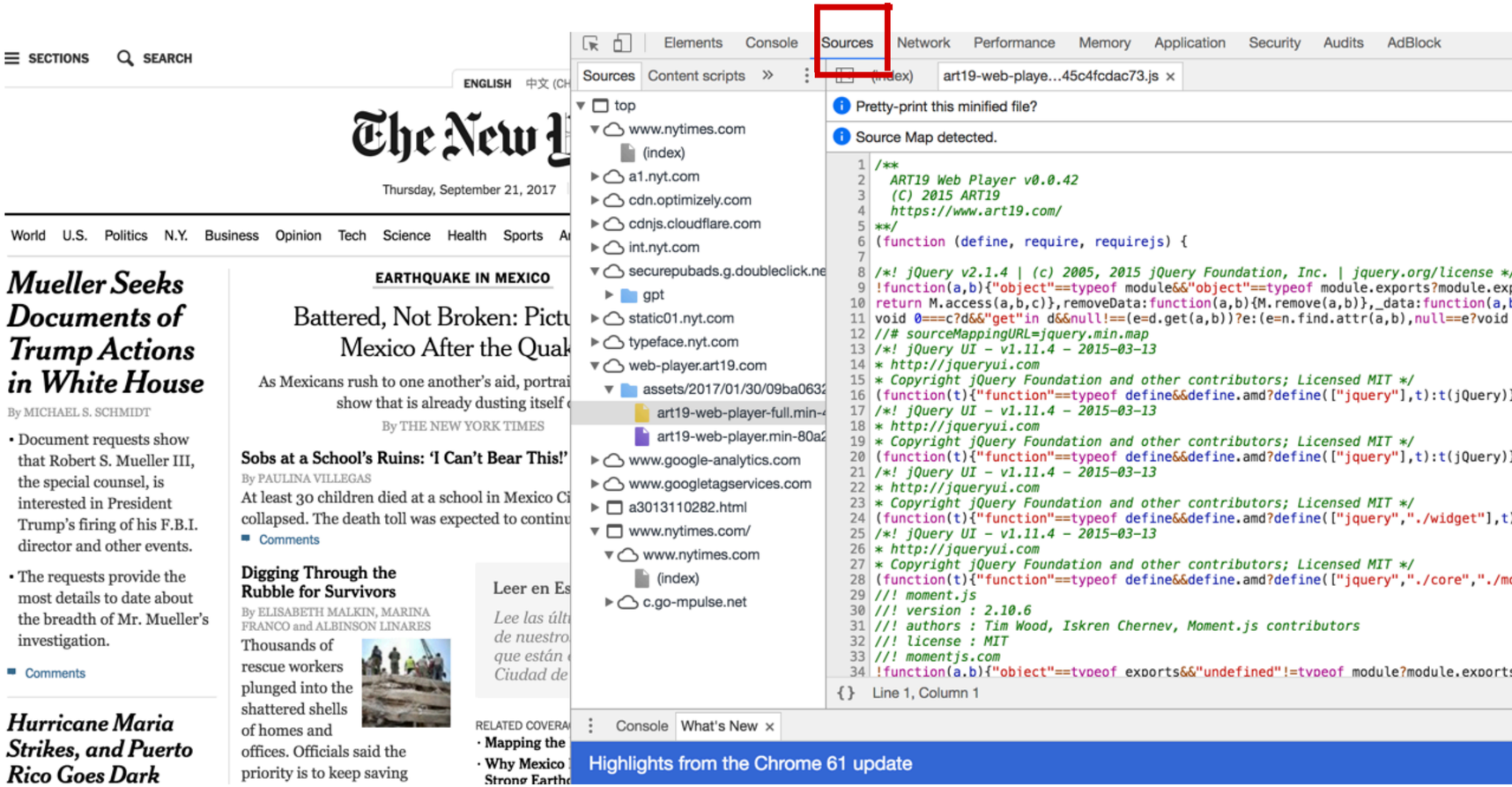
Dev Tools: Console

- Lets modify JavaScript portion of a site
- Console testing messages, etc.



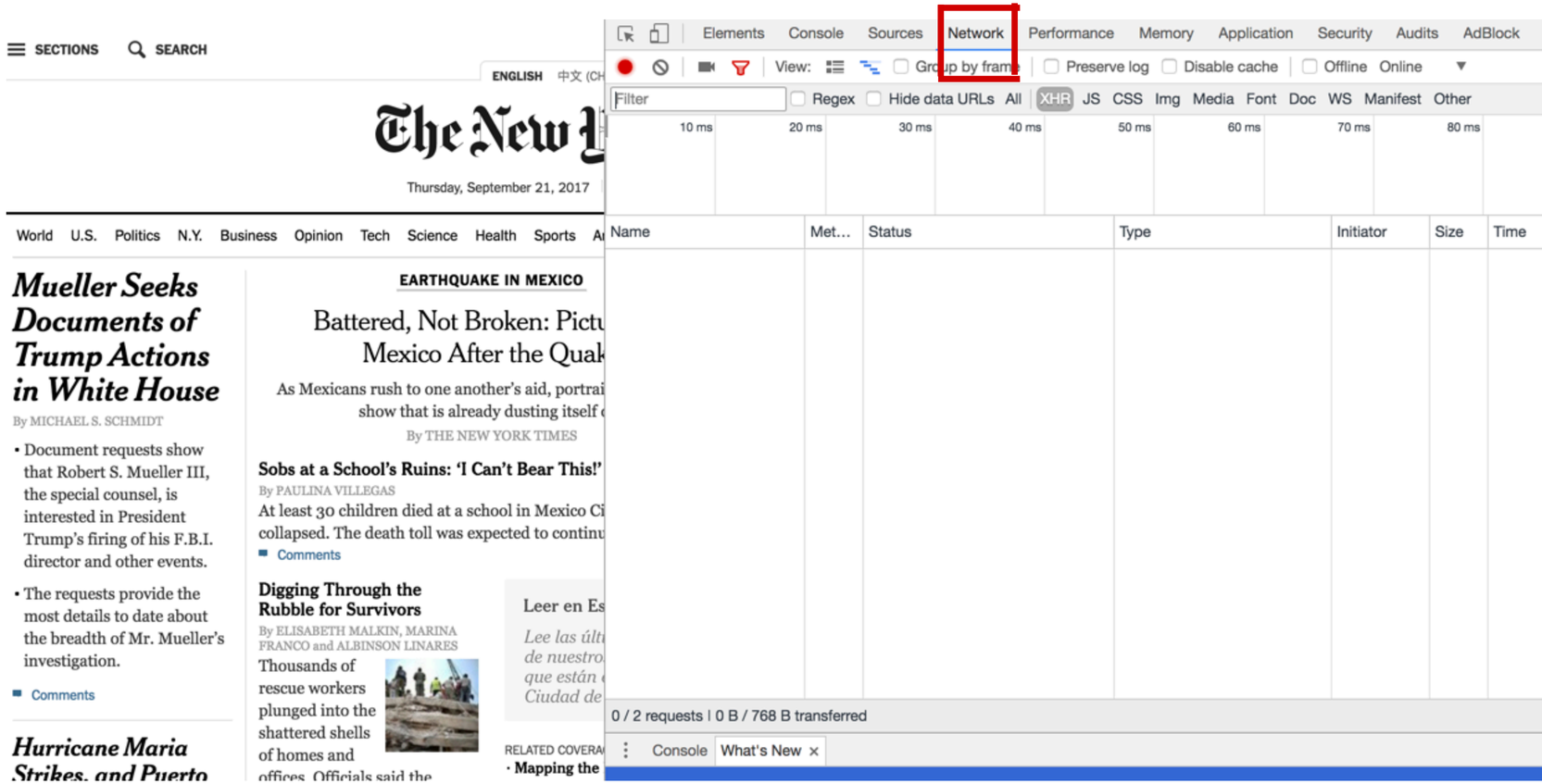
Dev Tools: Sources

- Shows sources of the page



Dev Tools: Network

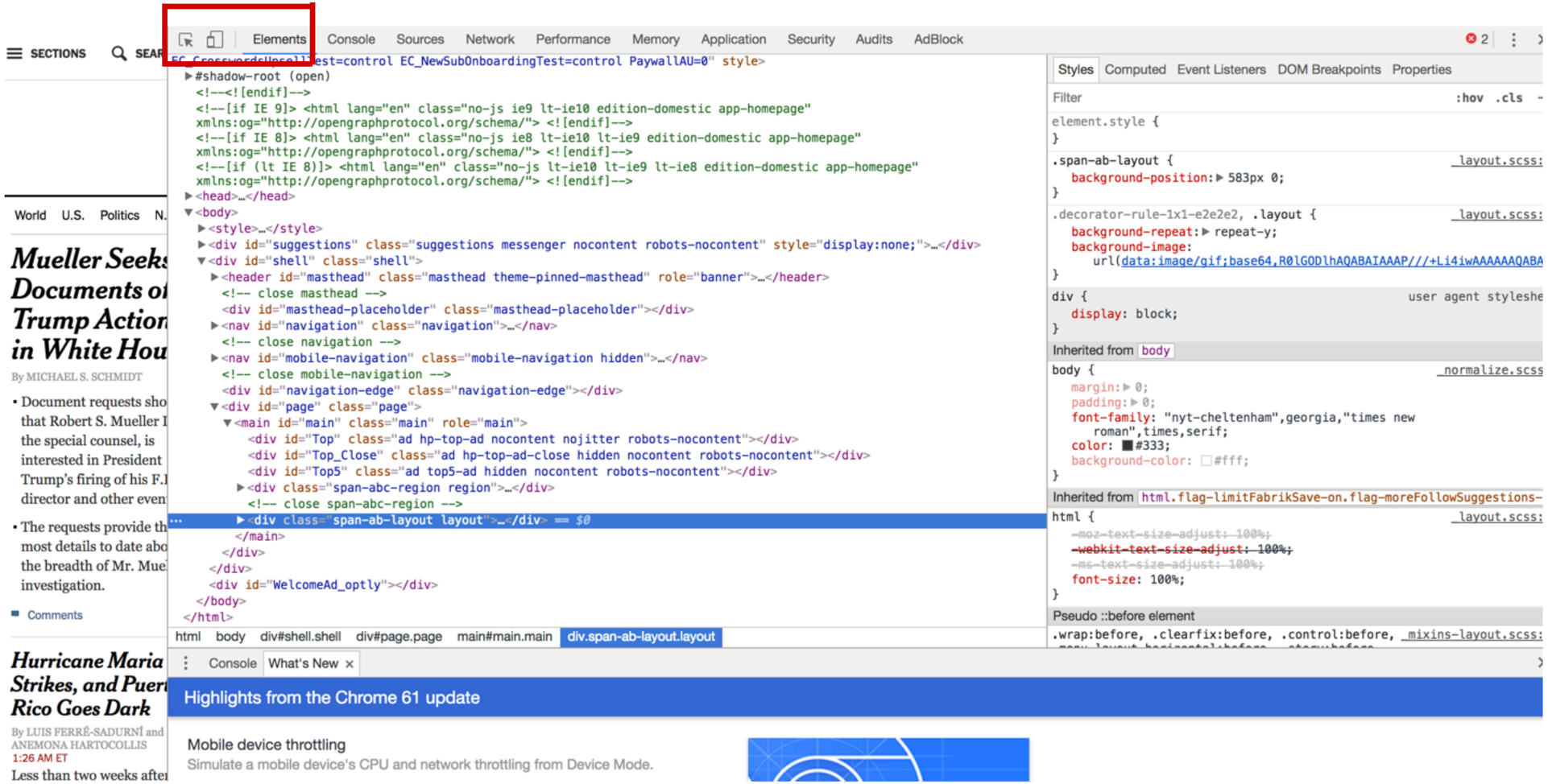
- Measures network performance



More documentation:

https://developers.google.com/web/tools/chrome-devtools/

Dev Tools: Elements



Demo

In-class exercise

In-class exercise:

Modify NYTimes page:

1. Access different HTML elements:
   - Change content
   - Try modifying style

Introduction to midterm

Midterm Assignment (due 10/12)

Your midterm project will be a multi-page (at least 3) website responding to one of the following assignment prompts:

- An conceptual, interactive self portrait. Make a digital interpretation of a portrait that has come before you, from painting to photography. This project is not intended to be a portfolio but some kind of creative representation of yourself and who you are that cannot be experienced in another way.

- A piece of hypertext narrative or art, similar to one of these examples **https://rhizome.org/art/artbase/collections/collection-hypertext/**

- Invent a fictional or futuristic product (a machine that could record your dreams, a sneaker that plays music, get creative!) and create a product website for it. Look here for some inspiration **http://www.webdesign-inspiration.com/web-designs/type/product**

It's an individual project.

Midterm Assignment 2

Your midterm project will be a multi-page (at least 3) website responding to one of the 3 assignment prompts (or one of your own, approved by me).

You will give a five minute presentation on your midterm to the class, explaining your idea, your code, your visual choices and your process. (More questions to guide your presentation will be provided).

You will be graded according to a rubric that I will distribute next week on concept, execution, visual design and effective communication.

Midterm presentations: Thursday, October 12. There might be guest critics.

Midterm Assignment 3

Your midterm project will include the following:

- Must be posted to Github pages in proper file structure.
- Your code should be neat and well organized, as well as well commented out
- The HTML and CSS code is efficient (no duplications), with CSS in an external style.css file

Required web elements include:

- Minimum of three HTML pages
- Media elements (video, audio, iframes)
- Appropriate usage of HTML elements: text (h, p, ul, ol, li), lists, links, images, div, span
- Use of Classes and IDs in your HTML and as CSS selectors
- CSS color selections
- CSS font selections

Homework assignment

Homework

Due Sunday by 6pm

1. **Start thinking about your midterm concept - we'll discuss next week**
2. **Read:**
    - Documentation on developer tools: https://developer.chrome.com/devtools
3. **Monday web review presentation - Jenna & Salvatore (submit link to your site by Sunday 6pm)**
4. **Using developer tools modify one of the following websites:**
    1. The New York Times: https://www.nytimes.com/.
    2. Mashable: http://mashable.com/
    3. Wired: https://www.wired.com/
    4. Or your own choice page
5. **Do the following:**
    1. Access existing HTML elements through Elements window and change the content in them:
        1. Text in headings, paragraphs
        2. Change images src
    2. Access existing HTML elements and also try modifying the style
    3. Try experimenting what else you can do (e.g. can you add additional HTML elements?)
6. **Make two screenshots: one of original page and the second one of your creative creation and upload to Github by Sunday 6pm (create new folder for this week)**
7. **Post link to it on #general channel on Slack by Sunday 6pm.**
8. **Office hours:** today 6:45-7:45pm. Sign up **here**.