

FRONT END WEB DEVELOPMENT

Eric Boyer

<https://eboyer.io/teaching>

HELLO!



ERIC BOYER

HELLO!

YOU + A NEIGHBOR

NAME,

WHAT YOU DO NOW,

WHAT INSPIRED YOU TO TAKE THE CLASS,

**ONE INTERESTING THING SOMEONE
MAY NOT KNOW ABOUT YOU.**

FRONT-END WEB DEVELOPMENT

A TOUR OF COURSE MATERIALS



ga-chicago ▾
eboyer

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alumni-meetup

code

data

design

fewd-13

general

job-board

Direct Messages

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Apps

≡ Q

fewd-13
☆ | 11 | Add a topic

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fewd-13

commander_kristan created this private channel on August 28th. This is the very beginning of the # fewd-13 private channel. Purpose: Front-End Web Development 13; 9/25-12/04; Mondays & Wednesdays; 6-9pm; No class on 11/22 ([edit](#))

+ Add an app & Invite others to this private channel

Monday, August 28th

commander_kristan 3:30 PM
joined fewd-13 along with 5 others.

commander_kristan 4:56 PM
set the channel purpose: Front-End Web Development 13; 9/25-12/04; Mondays & Wednesdays; 6-9pm; No class on 11/22

Tuesday, August 29th

Isaewitz 8:16 AM
hey ya' excited for class!

Thursday, August 31st

ryan.thies 9:01 PM
joined fewd-13 along with 4 others.

+ Message fewd-13

@ 😊

About #fewd-13

Channel Details

Highlights

Pinned Items

11 Members

- eboyer (you)
- commander_kristan
- erinw30
- fc
- Frank
- front_lines
- ksella
- ldumont
- Lindsey
- Isaewitz
- ryan.thies

[Invite more people ...](#)

Shared Files



<https://eboyer.io/teaching>



Eric Boyer

Product Designer & Developer



[Home](#) > [Teaching](#) > FEWD13

FEWD13

Schedule

[Sep 25 - Lesson 1: HTML Basics](#)

Sep 27 - Field Trip: Chicago Design Systems Meetup @ Sprout Social

[Oct 1 - Remote Office Hours via Google Hangouts \(6pm - 8pm\)](#)

Oct 2 - Lesson 3: Nested Elements, Box Model, CSS "Cascade", Classes and IDs

Oct 4 - Lesson 4: Floats, multi-column layouts, display

[Oct 8 - Remote Office Hours via Google Hangouts \(6pm - 8pm\)](#)

Oct 9 - Lesson 5: CSS Positioning and Layout Lab

Oct 11 - Lesson 6: Layout Lab Cont.

[Oct 15 - Remote Office Hours via Google Hangouts \(6pm - 8pm\)](#)

Oct 16 - Lesson 7: Intro to Programming

Oct 18 - Lesson 8: Intro to jQuery

[Oct 22 - Remote Office Hours via Google Hangouts \(6pm - 8pm\)](#)

Oct 23 - Lesson 9: Variables and Conditionals

Oct 25 - Lesson 10: Functions

[Oct 29 - Remote Office Hours via Google Hangouts \(6pm - 8pm\)](#)

Oct 30 - Lesson 11: Arrays

Nov 1 - Lesson 12: Arrays Lab

[Nov 5 - Remote Office Hours via Google Hangouts \(6pm - 8pm\)](#)

Nov 6 - Lesson 13: Responsive Design

Nov 8 - Lesson 14: Responsive Design Cont.

[Nov 12 - Remote Office Hours via Google Hangouts \(6pm - 8pm\)](#)

... - - - - -

FRONT-END WEB DEVELOPMENT

FOLDER STRUCTURE

FRONT-END WEB DEVELOPMENT

FINAL PROJECT

FRONT-END WEB DEVELOPMENT

EXIT TICKETS

FRONT-END WEB DEVELOPMENT

HOMEWORK FEEDBACK PROCESS

FRONT-END WEB DEVELOPMENT

STUDY GROUP / OFFICE HOURS

FRONT-END WEB DEVELOPMENT

SHOW N' TELL W/ SOME SNACKS

FRONT-END WEB DEVELOPMENT

WED MARCH 8TH
FIELD TRIP!

FRONT-END WEB DEVELOPMENT

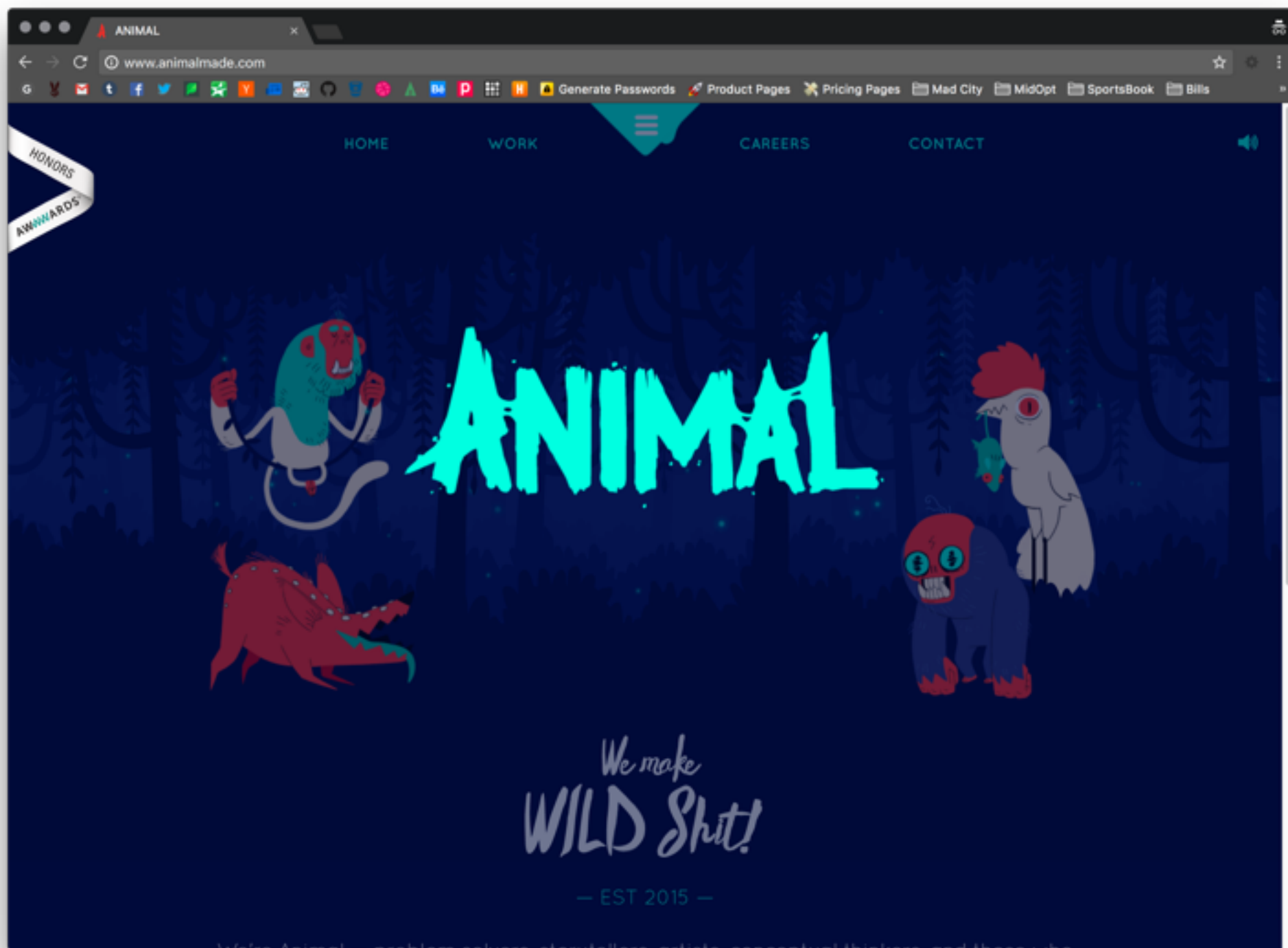
CHICAGO DESIGN SYSTEMS

<https://www.meetup.com/ChicagoDesignSystems/>

**@ SPROUT SOCIAL
131 S DEARBORN ST**

TODAY!

ERIC



FRONT-END WEB DEVELOPMENT

LET'S GET STARTED!

HTML BASICS

Eric Boyer

LEARNING OBJECTIVES

- Provide an overview of the world of web development
- Articulate the role of HTML, CSS and JavaScript in front-end development.
- Recognize the different roles and responsibilities in web development.
- Apply and experiment with HTML tags.

AGENDA



- Web Development Overview
- Intro to Front-End Development
- Intro to HTML
- Lab Time

FEWD

WEB DEVELOPMENT OVERVIEW

WHAT IS FRONT-END WEB DEVELOPMENT?

WHY WEB DEVELOPMENT?

WHY?

Make ideas come to life

Opportunities

Communication

Customize Websites

Help Others

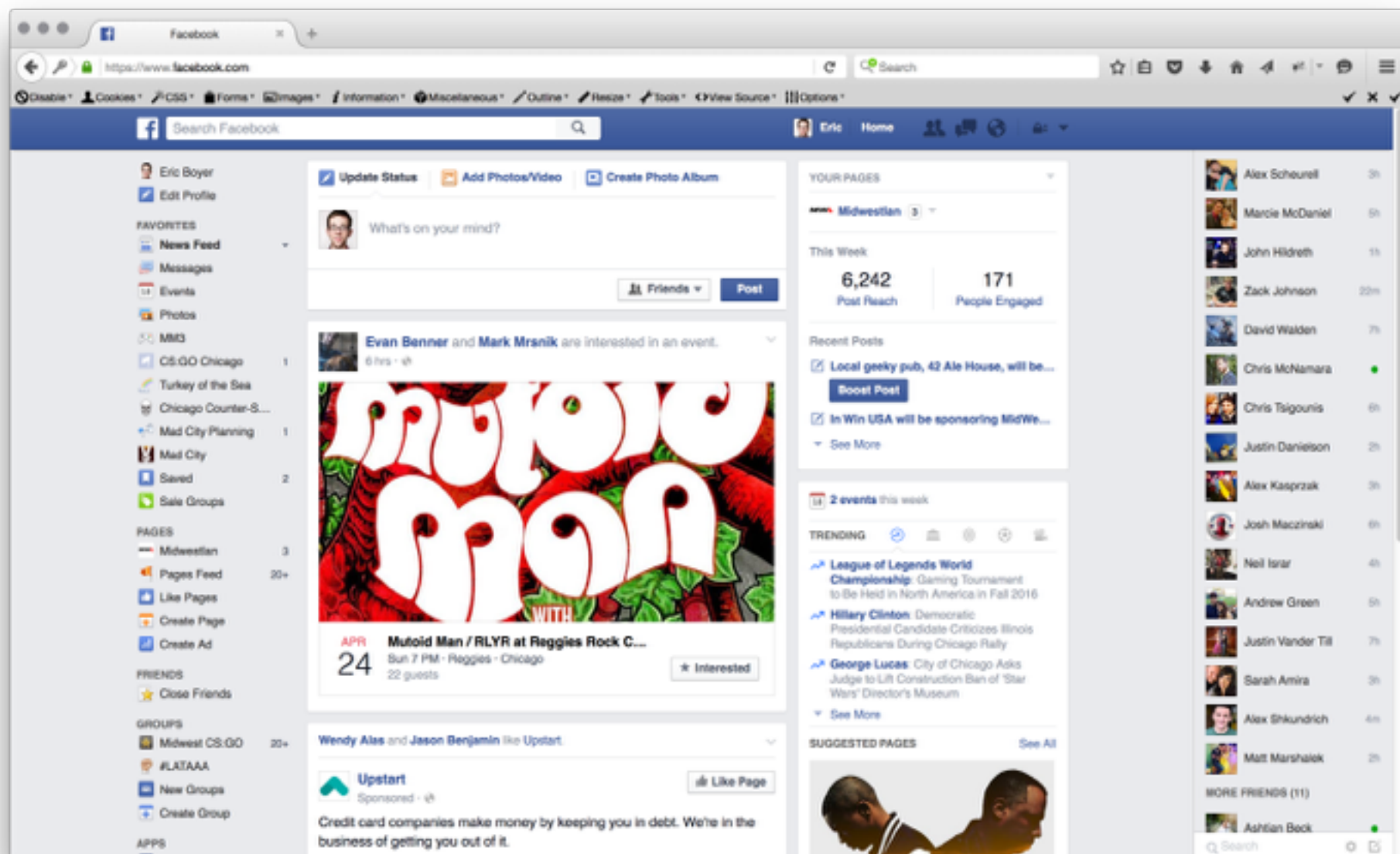
Jobs

Leads to other tech related interests

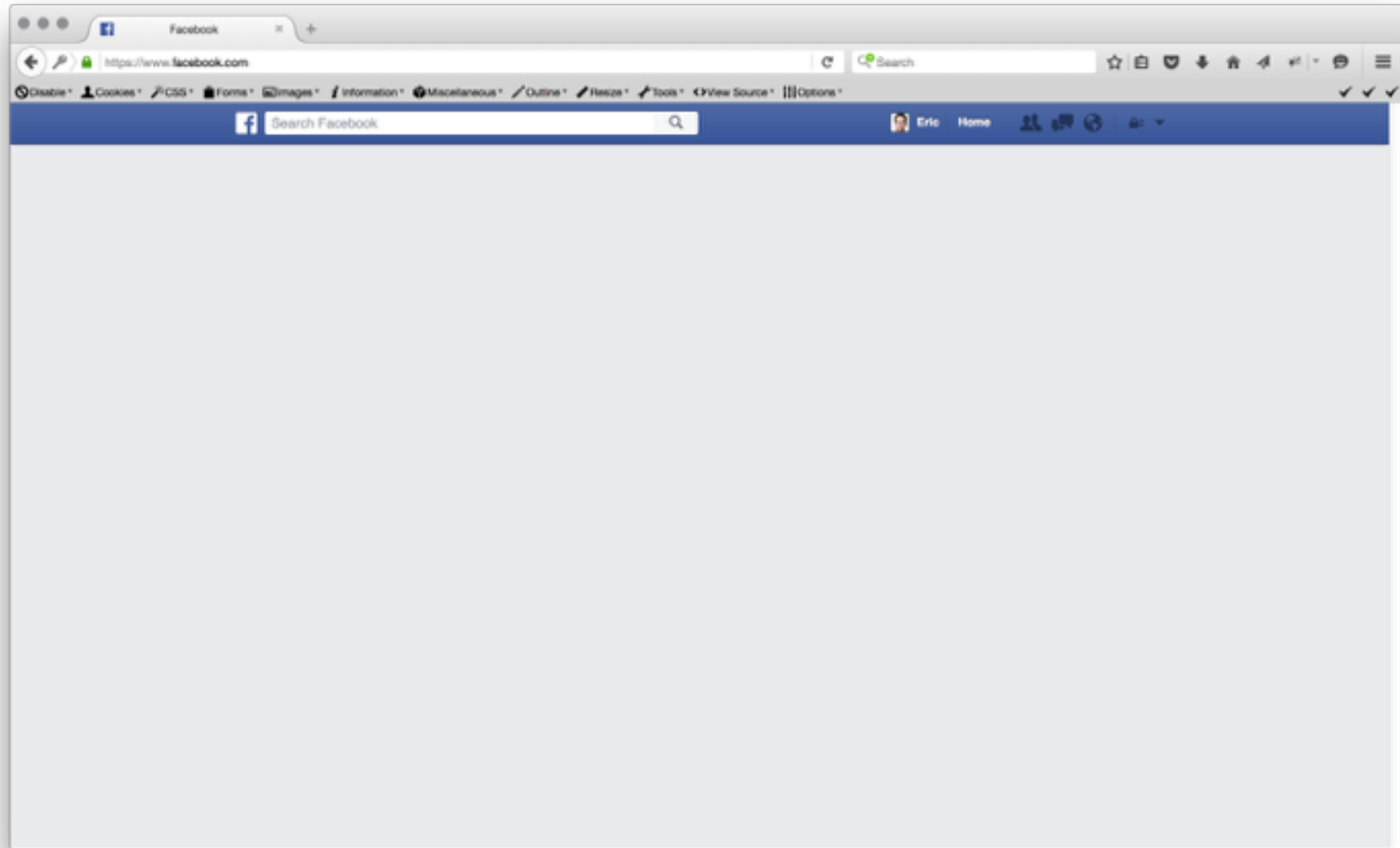
WHY?

“I think everybody in this country should learn how to program a computer because it teaches you how to think.” — Steve Jobs

WHY?



WHY?



FEWD

HOW DOES THE INTERNET WORK?

CLIENT AND SERVER



CLIENT



SERVER

INTERNET PROTOCOL

IP

CLIENT AND SERVER



CLIENT

IP Address: 192.168.1.72

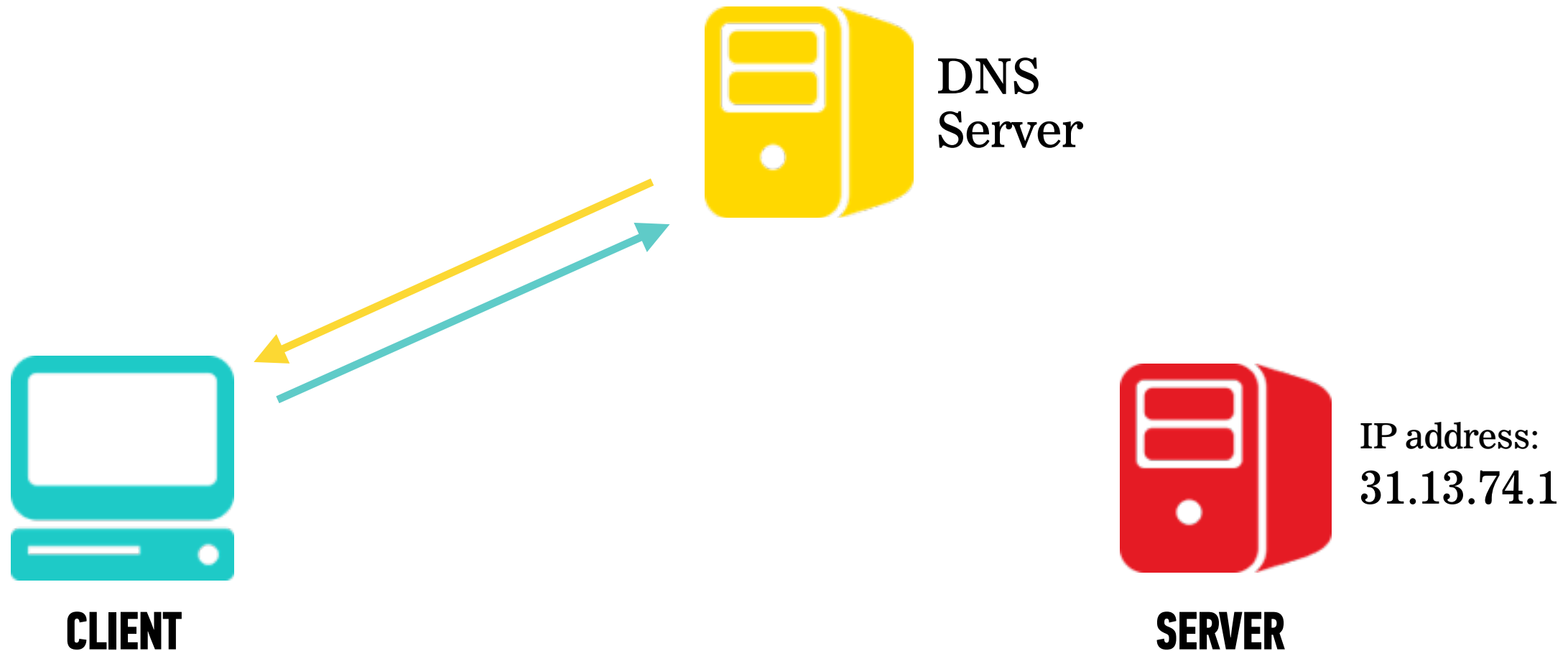


SERVER

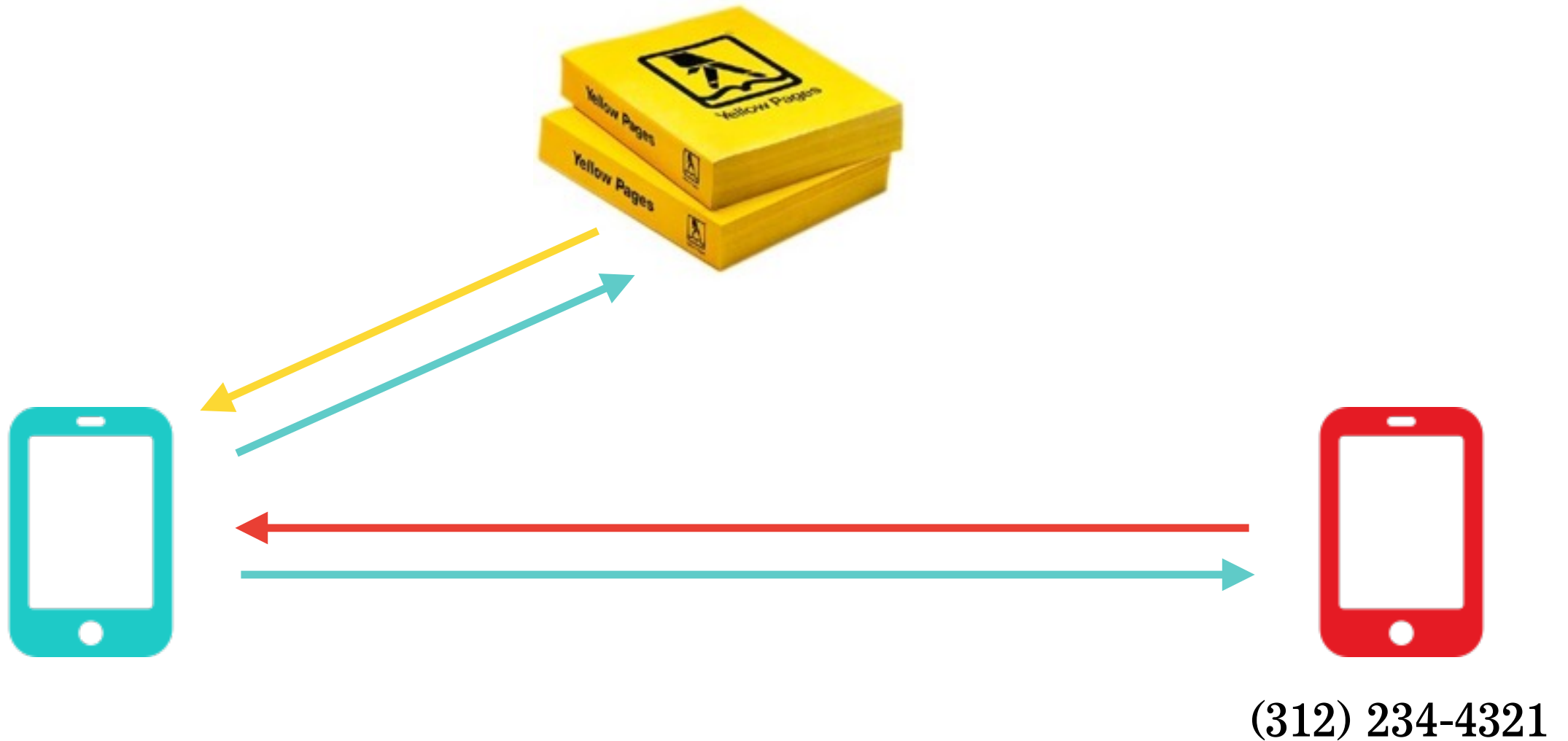
IP Address: 31.13.74.1

DNS SERVER — URL -> IP ADDRESS

- Client (me): I need directions to `www.facebook.com`”
- DNS Server: “The domain name `www.facebook.com` maps to this IP address: `31.13.74.1`”



DNS SERVER — URL -> IP ADDRESS



REQUEST/RESPONSE



**CLIENT RUNNING A
WEB BROWSER**

Your browser connects to a server and
requests a page



Server sends back requested page



**SERVER MACHINE
RUNNING A WEB
SERVER**

HOW CAN YOU DO THIS?

HOW CAN YOU DO THIS?

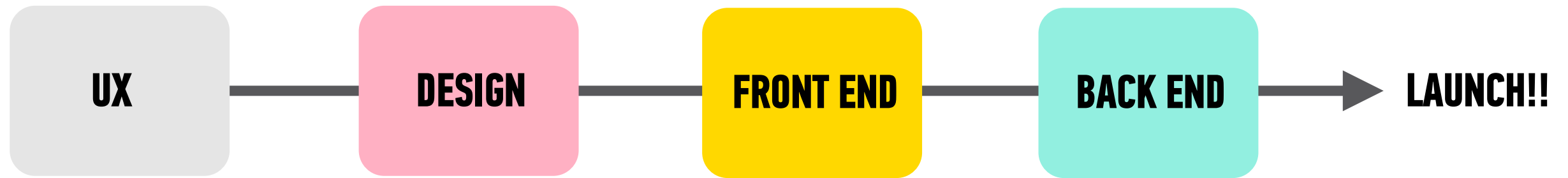
DOMAIN NAME ([GANDI.NET](#), [NAME.COM](#))

HOSTING ([NAME.COM](#), [WEBFACTION.COM](#))

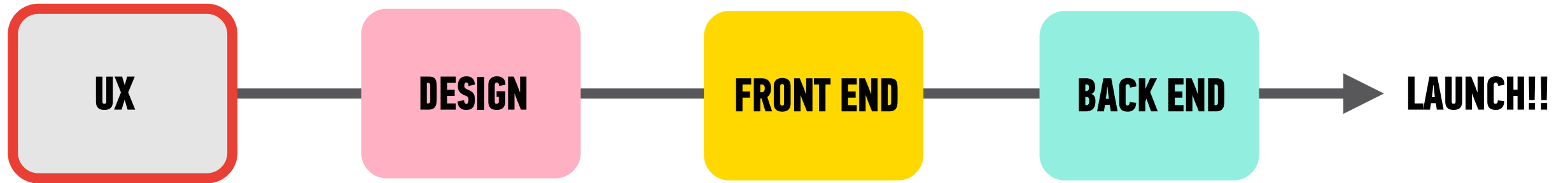
FEWD

WEB PRODUCTION WORKFLOW

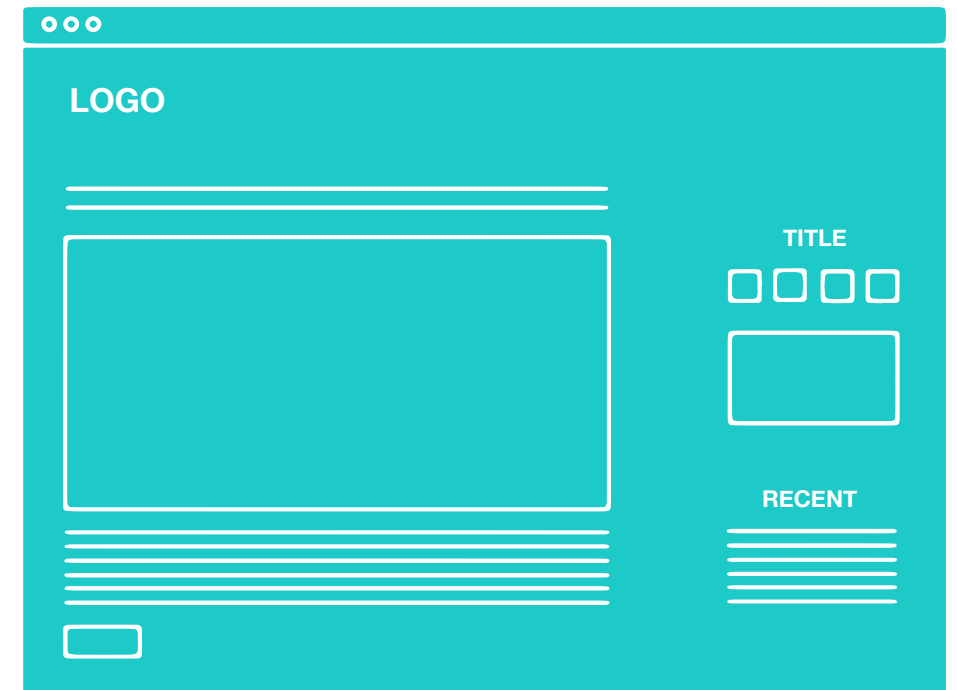
WEB PRODUCTION WORKFLOW



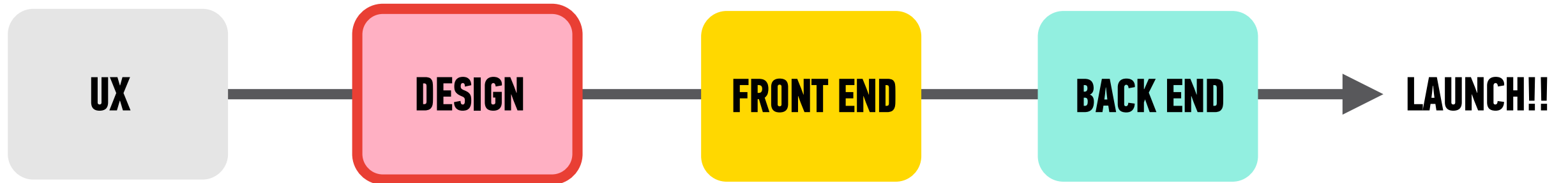
WEB PRODUCTION WORKFLOW — UX DESIGNER



- Figures out how people are going to use a webpage
- Try to make it as easy as possible for people to use a webpage while achieving the purpose of the webpage.
- Main deliverables: wireframes, flow charts



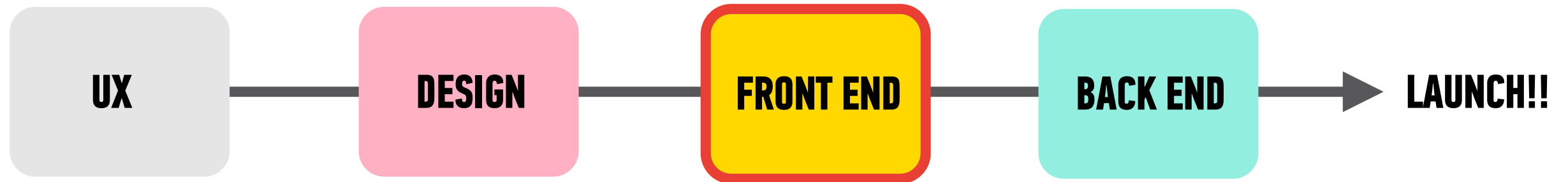
WEB PRODUCTION WORKFLOW — UI DESIGNER



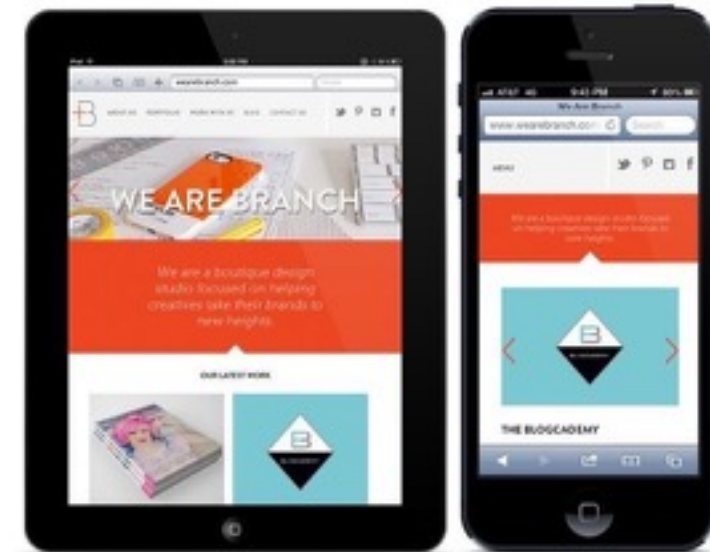
- Referred to as UI Designer/Web Designer
- Take the wireframes and make them pretty
- Logo/Fonts/Color palettes/Layout



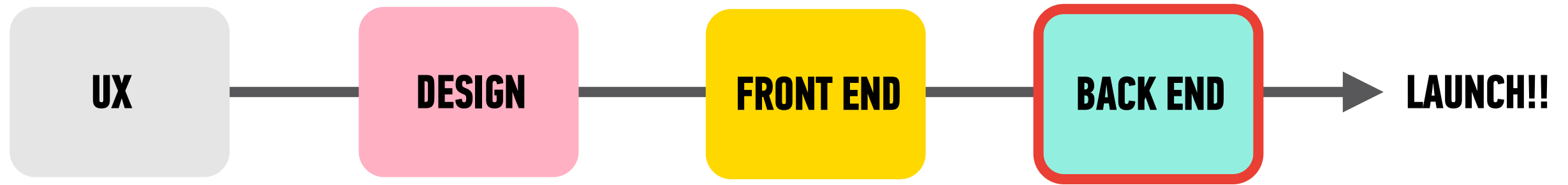
WEB PRODUCTION WORKFLOW — FRONT END



- ▶ Take the design and turn it into code and assets
- ▶ Uses HTML/CSS to create the structure for a page and add styles
- ▶ Add interactions with JavaScript
- ▶ Other responsibilities: accessibility, performance, cross-browser and cross-device functionality



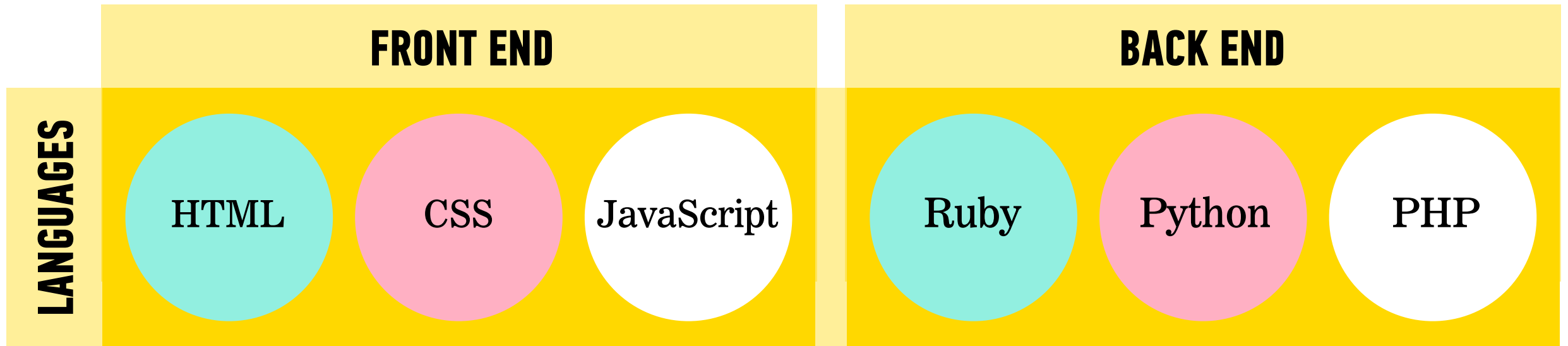
WEB PRODUCTION WORKFLOW — BACK END



- Give the application/webpage a 'memory'
- Handle page request and send back the right page
- Talking to the database - getting data, adding and updating data
- Authenticate users
- Communicate with APIs



FRONT END VS. BACK END



...and many, many more

**EVERYTHING THAT YOU SEE AND INTERACT WITH WHEN USING
THE WEB IS HTML, CSS, AND JAVASCRIPT.**

CHALLENGES

DEVICE RESOLUTIONS (RETINA, 4K, LOW RESOLUTIONS)

DEVICE SIZES (PHONE, TABLET, DESKTOP)

BROWSERS (FIREFOX, CHROME, SAFARI,
INTERNET EXPLORER 7, 8, 9, MICROSOFT EDGE)

PERFORMANCE

ACTIVITY



EXERCISE

KEY OBJECTIVE

Describe the role and responsibilities of the front-end developer. How do these differ from those of the back-end developer?

TIMING

1 min

1. Turn to partner and discuss

2 min

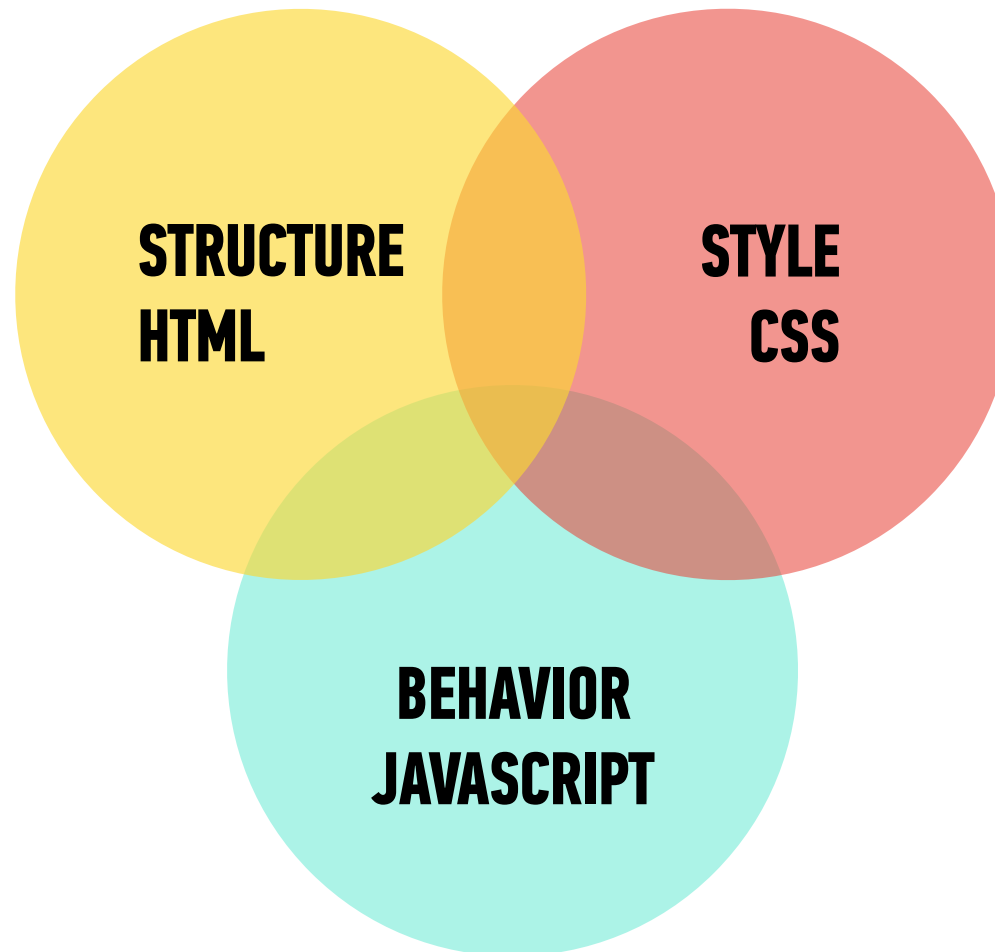
2. Share with rest of class

FEWD

INTRO TO FRONT-END WEB DEVELOPMENT

THE THREE AMIGOS: STRUCTURE, STYLE, BEHAVIOR

- HTML = Noun
- CSS = Adjective
- Javascript = Verb



WHAT IS HTML?

- HyperText Markup Language
- Describes the **structure** of a webpage
- Originally designed to share scientific research papers

WHAT IS HTML?

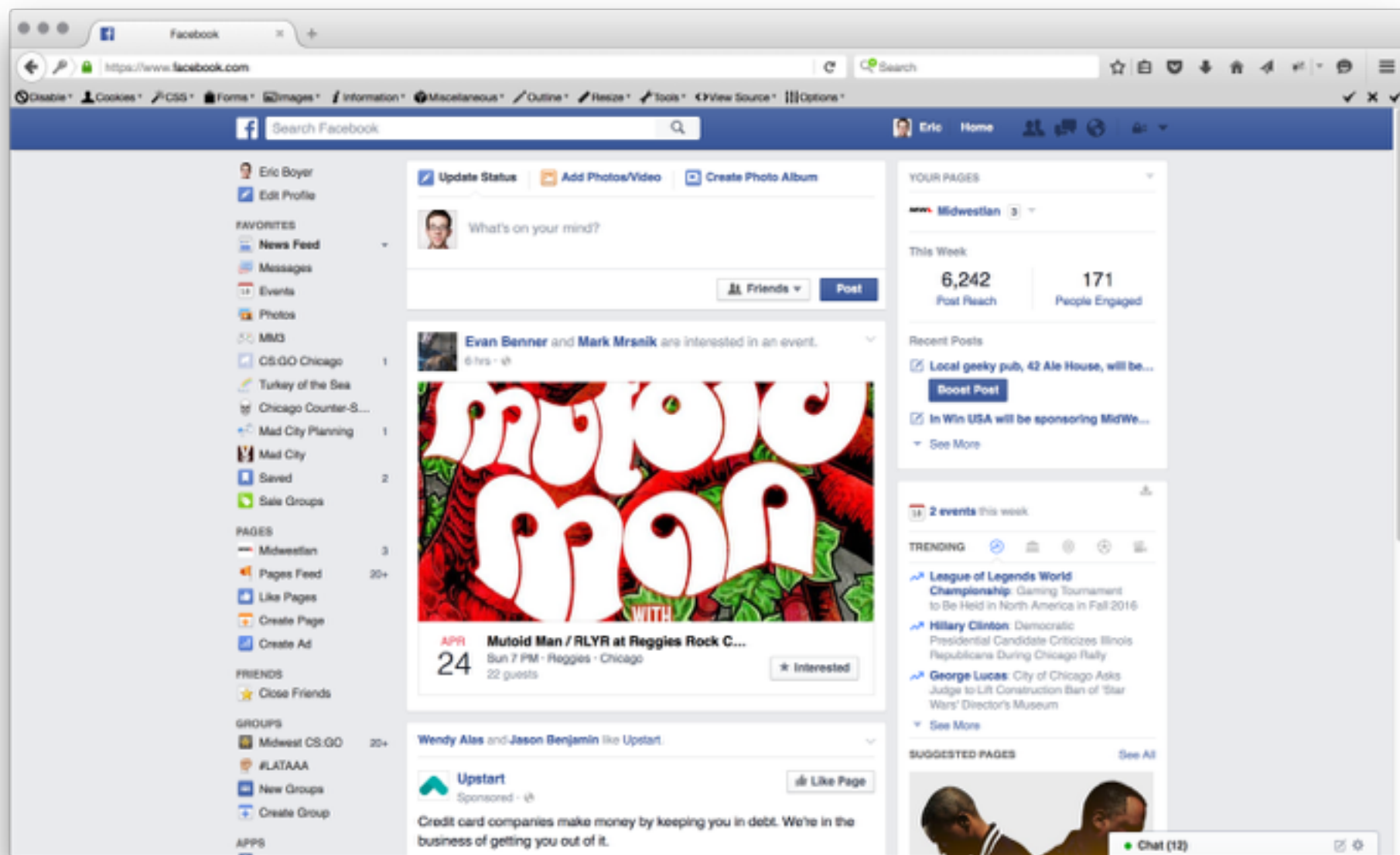
HTML describes the organization and structure of pages

- I. Background of 1893 Columbian Exposition
 - A. Continued tradition of big fairs
 - 1. Previous world's fairs
 - a. London and the Crystal Palace, 1851
 - b. Philadelphia, 1876
 - 2. Chicago fair to be larger than earlier fairs
 - B. Emphasized cultural achievements
 - 1. Planners D. H. Burnham and F. L. Olmsted
 - 2. Nation's top artists, inventors, industrialists
- II. Background of George W. G. Ferris

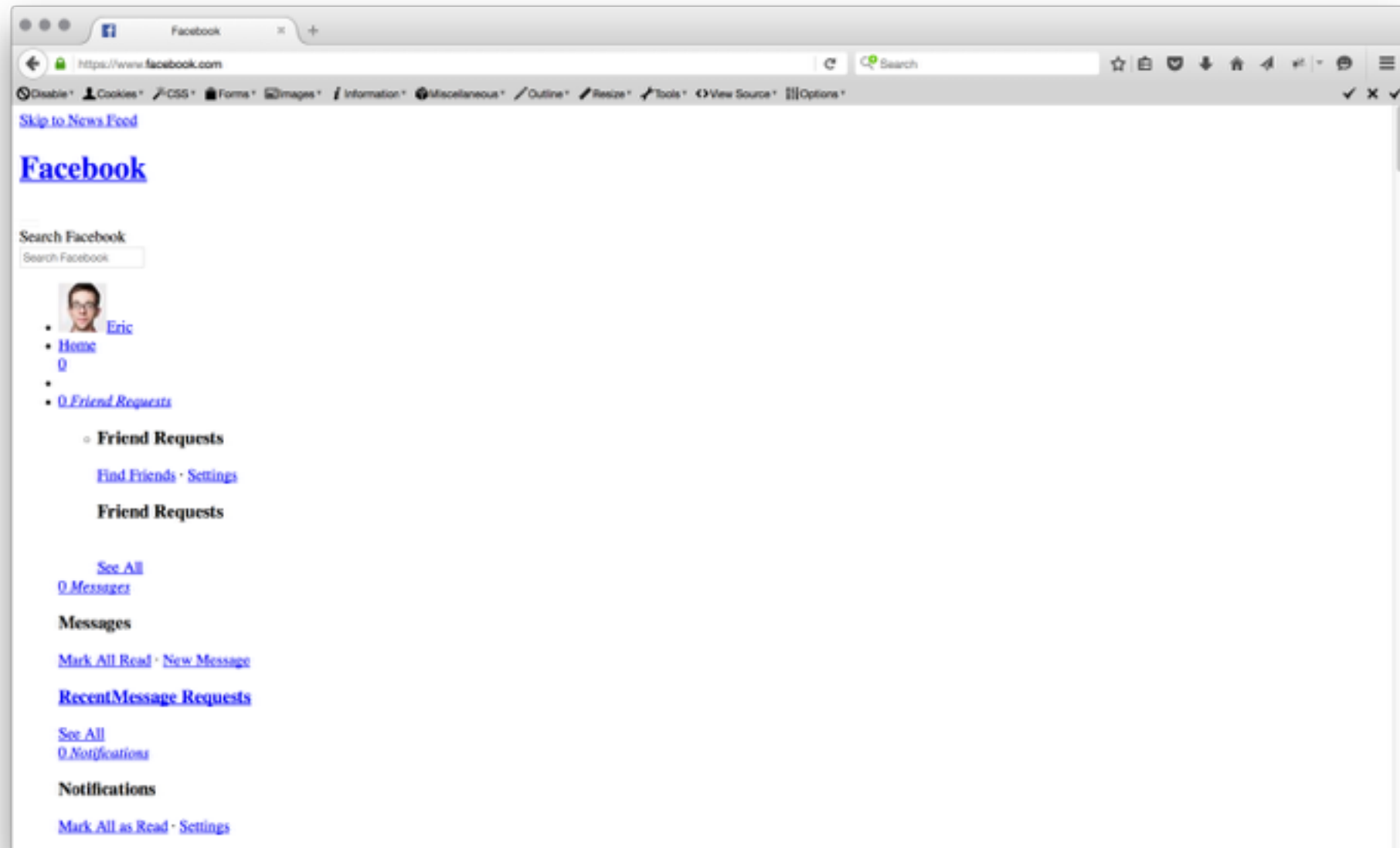
WHAT IS HTML?

```
<!DOCTYPE html>
<html>
  <head>
    <title> This is a Web Page </title>
  </head>
  <body>
    <p> This is a paragraph about web pages. </p>
    <a href="...."> This is a link to another page. </a>
  </body>
</html>
```

WHAT IS HTML?



WHAT IS HTML?

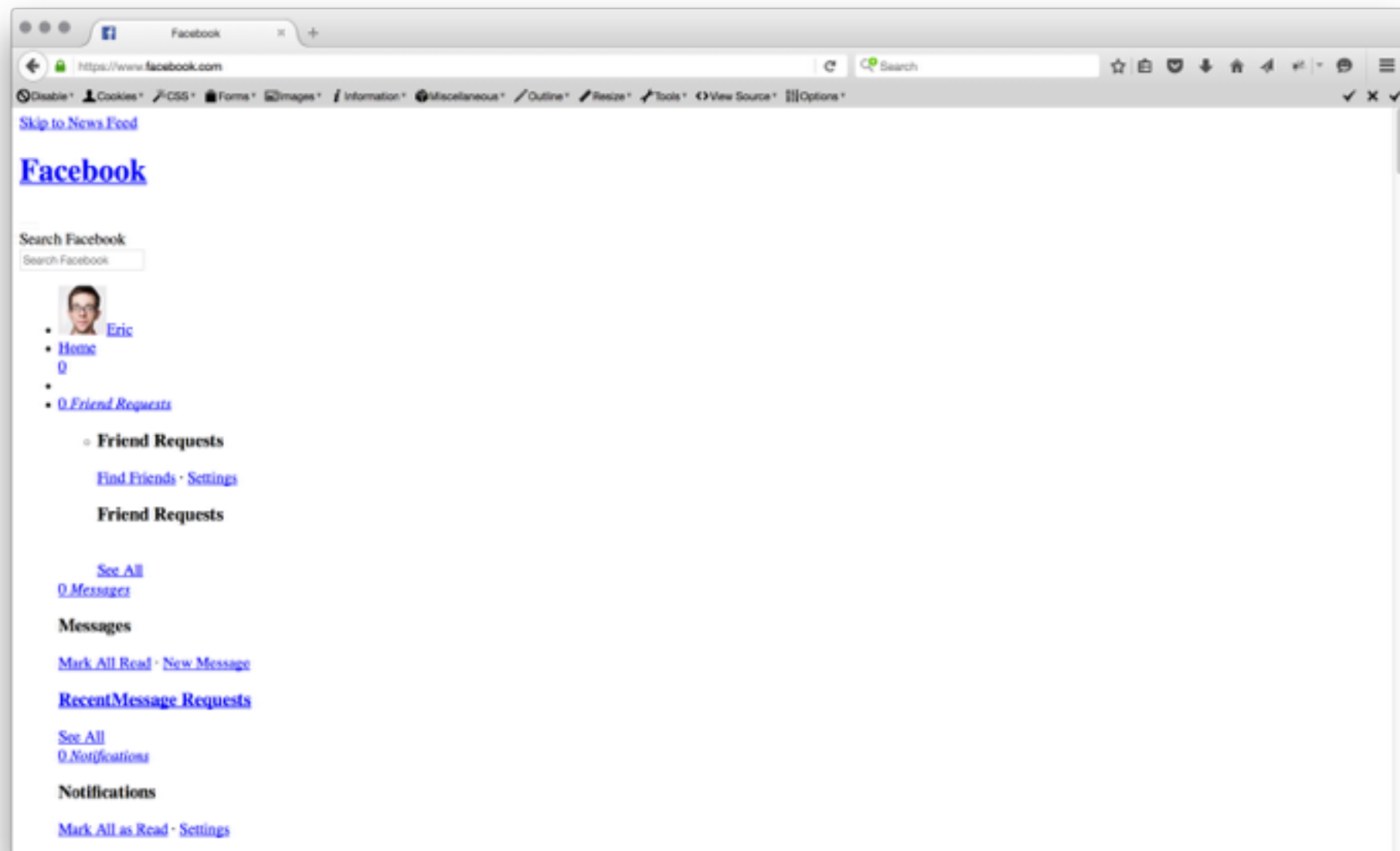


WHAT IS CSS?

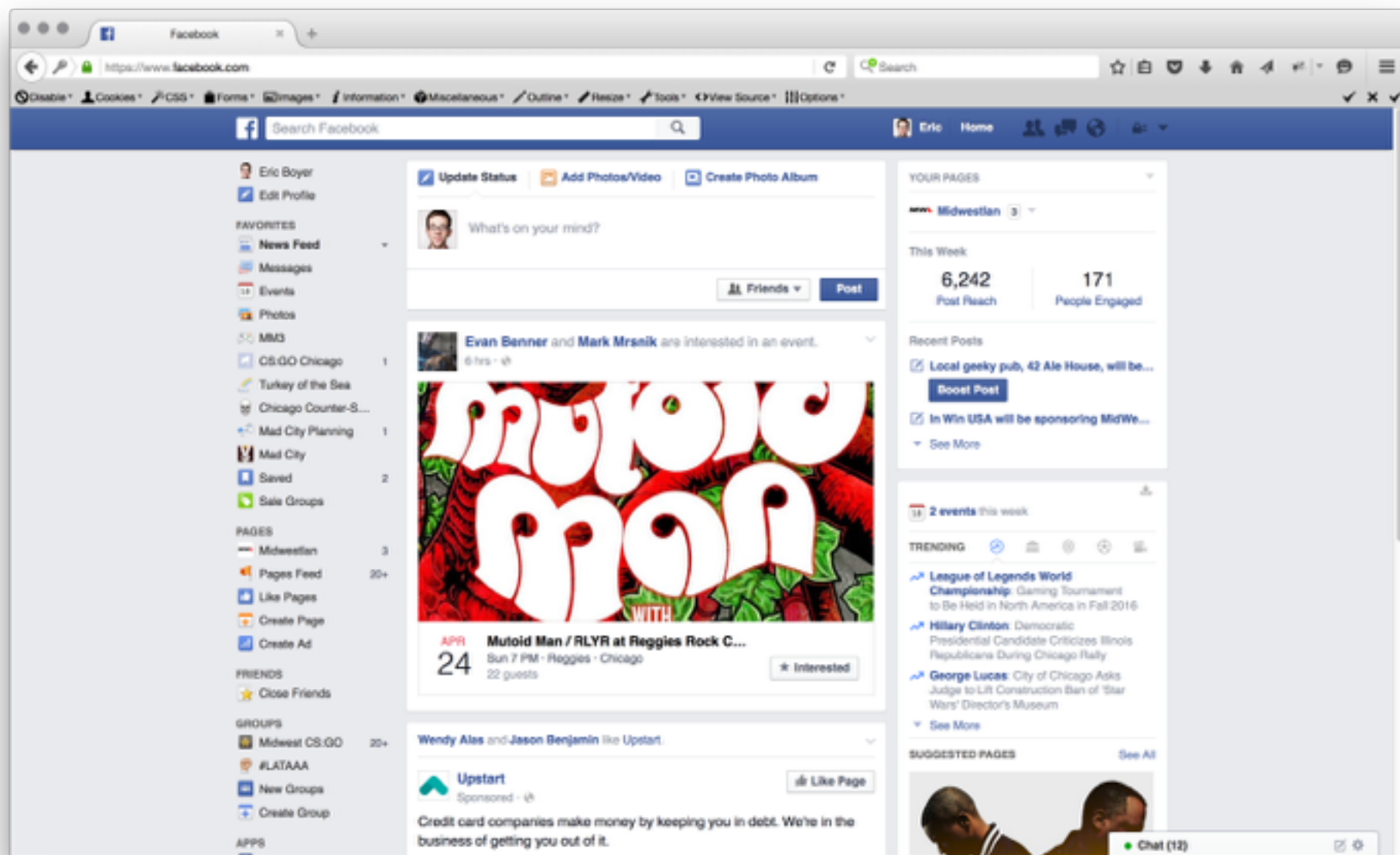
- ▶ CSS associates style rules with HTML elements

```
body {  
    font-family: Arial;  
    color: white;  
    background-color: blue;  
}
```

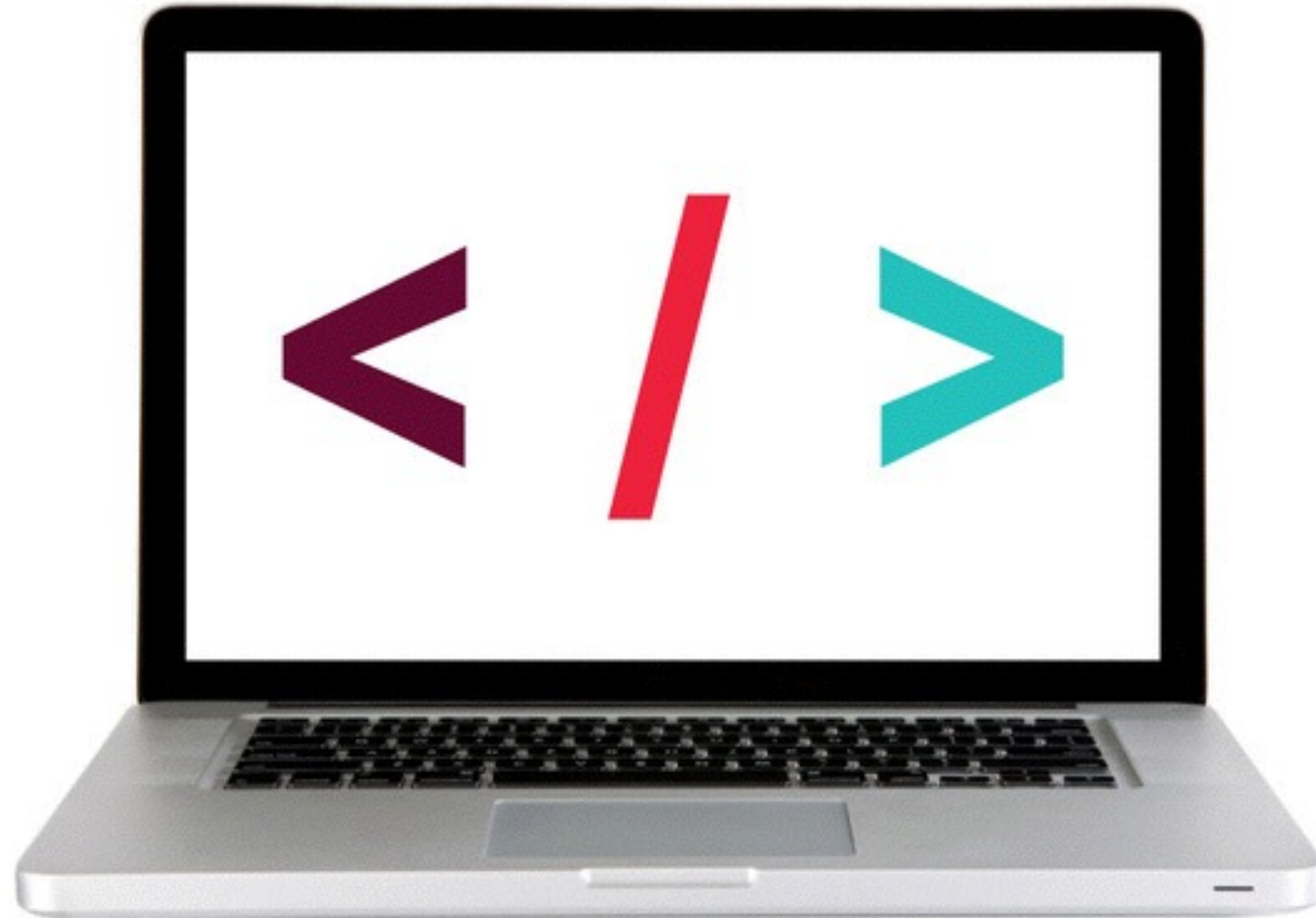
WHAT IS CSS?



WHAT IS CSS?



LET'S TAKE A CLOSER LOOK



WHAT IS JAVASCRIPT?

- Javascript defines how content behaves
- Interactions and animations
- Heavily used in single-page web apps

```
var color = prompt("What is your favorite color?");  
document.getElementsByTagName('h1')[0].innerHTML = color
```

JQUERY IS YOUR FRIEND

Fast, small, feature-rich JavaScript library

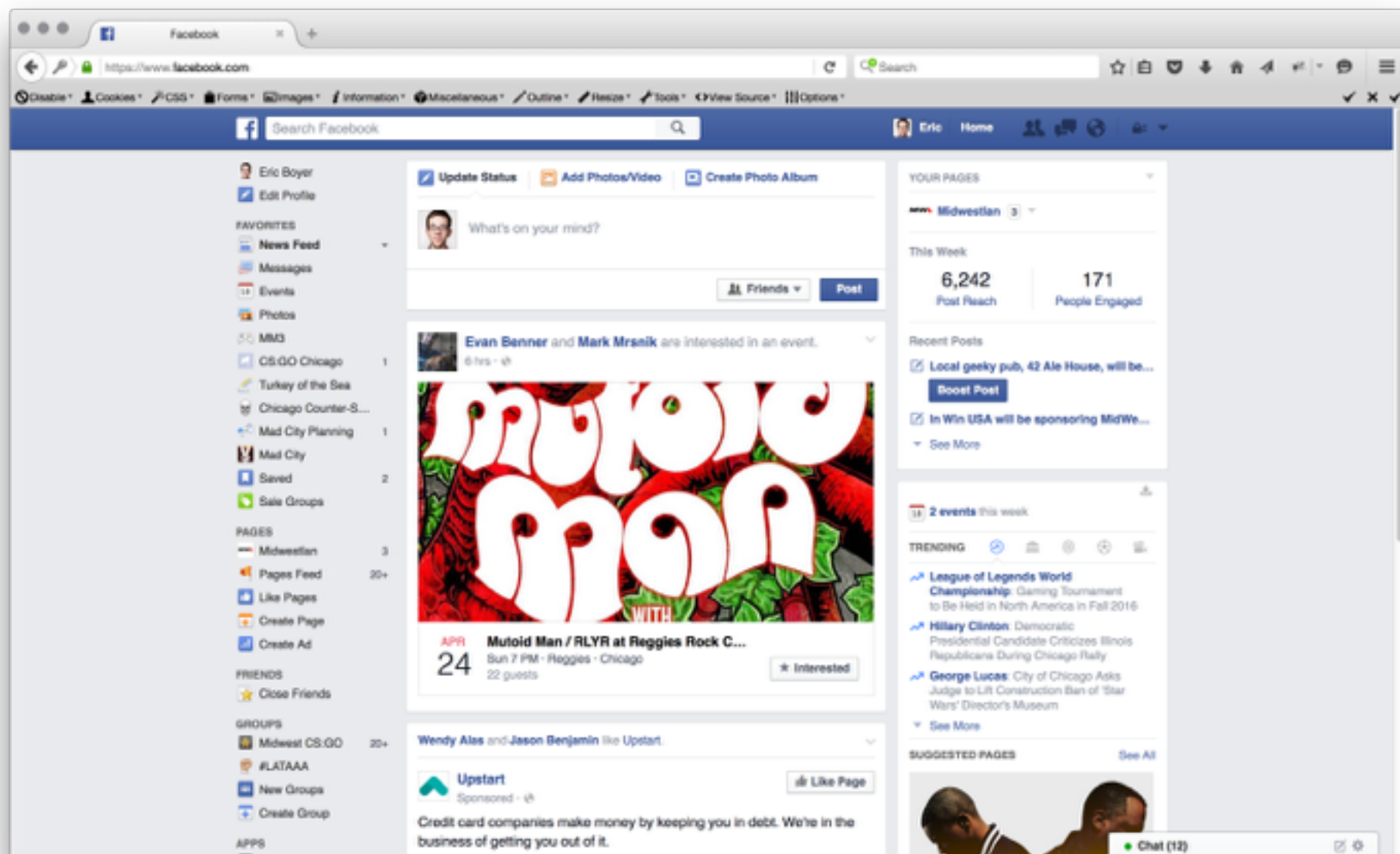
Javascript

```
document.getElementsByTagName('h1')[0].innerHTML = color
```

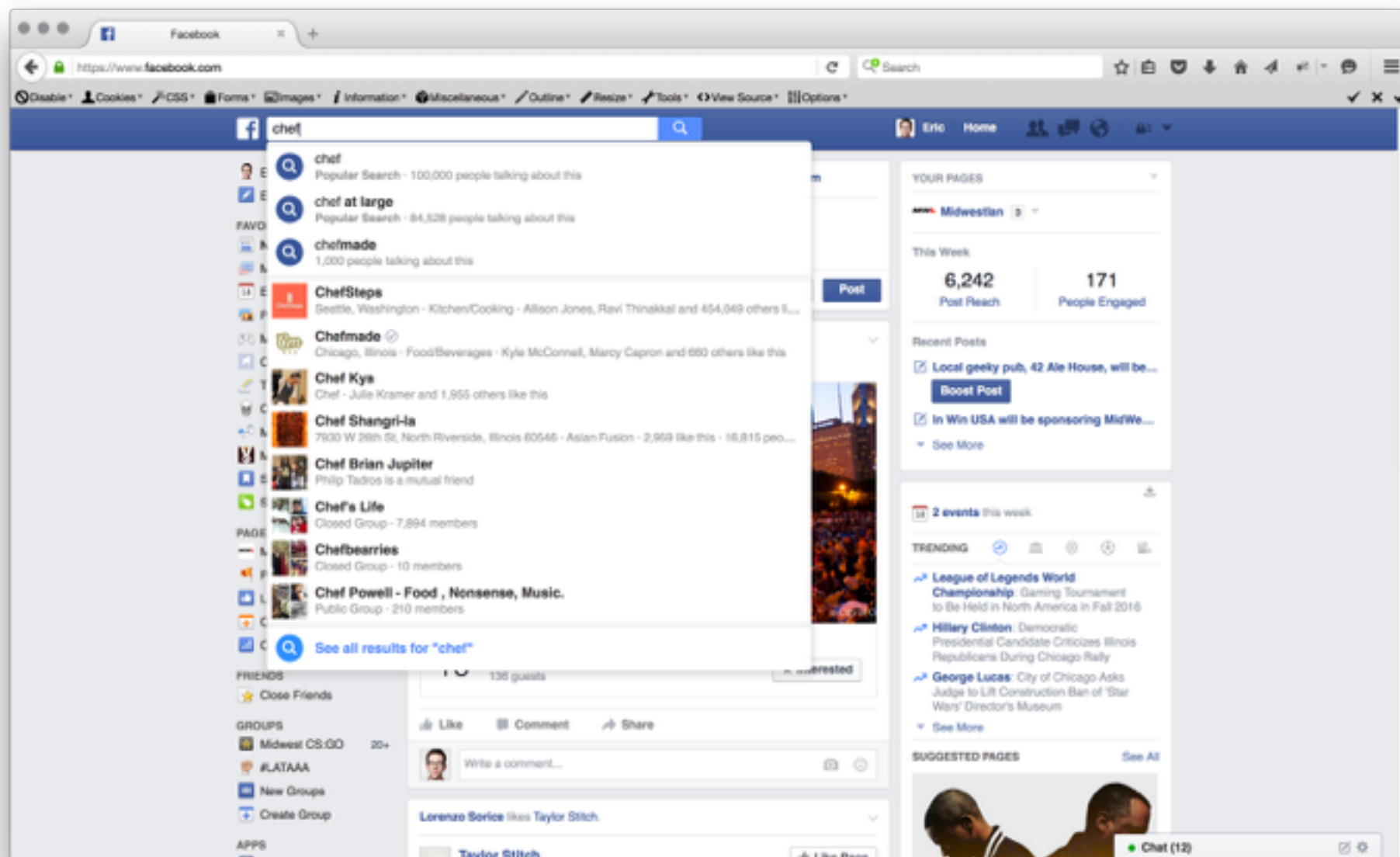
jQuery

```
$('h1').html(color);
```

WHAT IS JS?



WHAT IS JS?



FEWD

**LET'S GET EVERYTHING
SET UP!**

FIRST THINGS FIRST — TOOLS



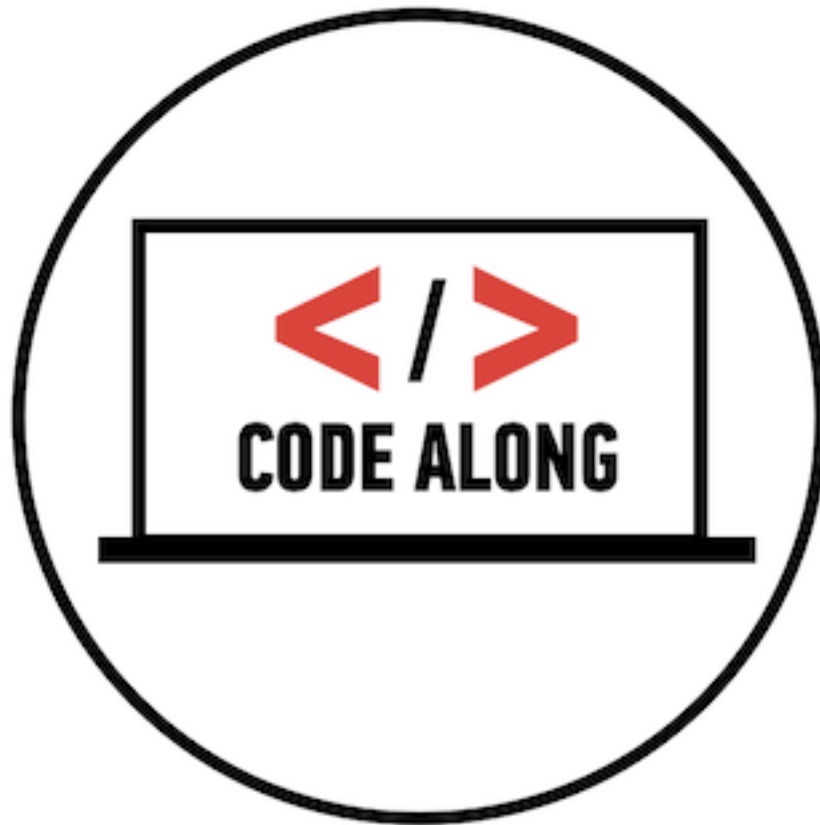
SUBLIME TEXT 3

[Download here](#)

CHROME

[Download here](#)

FIRST THINGS FIRST



FEWD

HTML BASICS

HTML BASICS

WHAT IS HTML?

WHAT IS HTML?

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Monday, January 5, 2015 | Today's Paper | Video | 36°F | Dow -1.80% ↓

World U.S. Politics New York Business Opinion Technology Science Health Sports Arts Style Food Home Travel Magazine Real Estate ALL

New York City Police Sharply Cut Arrests for a Second Week

By J. DAVID GOODMAN and AL BAKER 53 minutes ago

Police officers arrested less than half as many people and wrote more than 90 percent fewer summonses than in the same period a year ago, building on a drastic drop in activity that began shortly after the murder of two uniformed patrol officers.

108 Comments

Republicans Say They'll Act Fast to Push Their Agenda

By CARL HULSE

Eager to show that it can govern well, the Republican Party that takes control of Congress beginning Tuesday is likely to begin by trying to quickly advance energy and health care legislation.

830 Comments



Fred R. Conrad/The New York Times

Bess Myerson, a Beauty Queen Who Reignited in Politics, Dies

Ms. Myerson, the first Jewish Miss America, was one of a select group of American figures to parlay pop culture celebrity into positions of public influence. She was 90.

By ENID NEMY and WILLIAM McDONALD

Afghan Cares for the Living by Carrying the Dead

By AZAM AHMED 12:07 PM ET

Malik Abdul Hakim, who has lost two sons, is revered for collecting and returning the bodies of both Taliban and government casualties.



Home Schooling: More Pupils, Less Regulation

The Opinion Pages

When Skepticism Counts

Novelist David Baldacci and others on the role of conspiracy theories in society.

- Editorial: Race and Voting Rights in Ferguson

OP-ED COLUMNISTS

- Blow: Privilege of 'Arrest Without Incident'
- Krugman: Presidents and the Economy

The Central Crisis in New York Education

By THE EDITORIAL BOARD

New York, which regards itself as a bastion of liberalism, has the most racially and economically segregated schools in the nation.

- Editorial: Shifting Politics on the Death Penalty
- Op-Ed: Losing the Fight Against Tuberculosis

Watching

now A judge in Wisconsin ordered a trial for **Dustin Diamond**, best known as Screech from "Saved by the Bell," on charges stemming from a bar fight on Christmas night.

Milwaukee Journal Sentinel >



22m Markets tumbled in Europe and the U.S. as the declining price of oil sent ripples around the world.

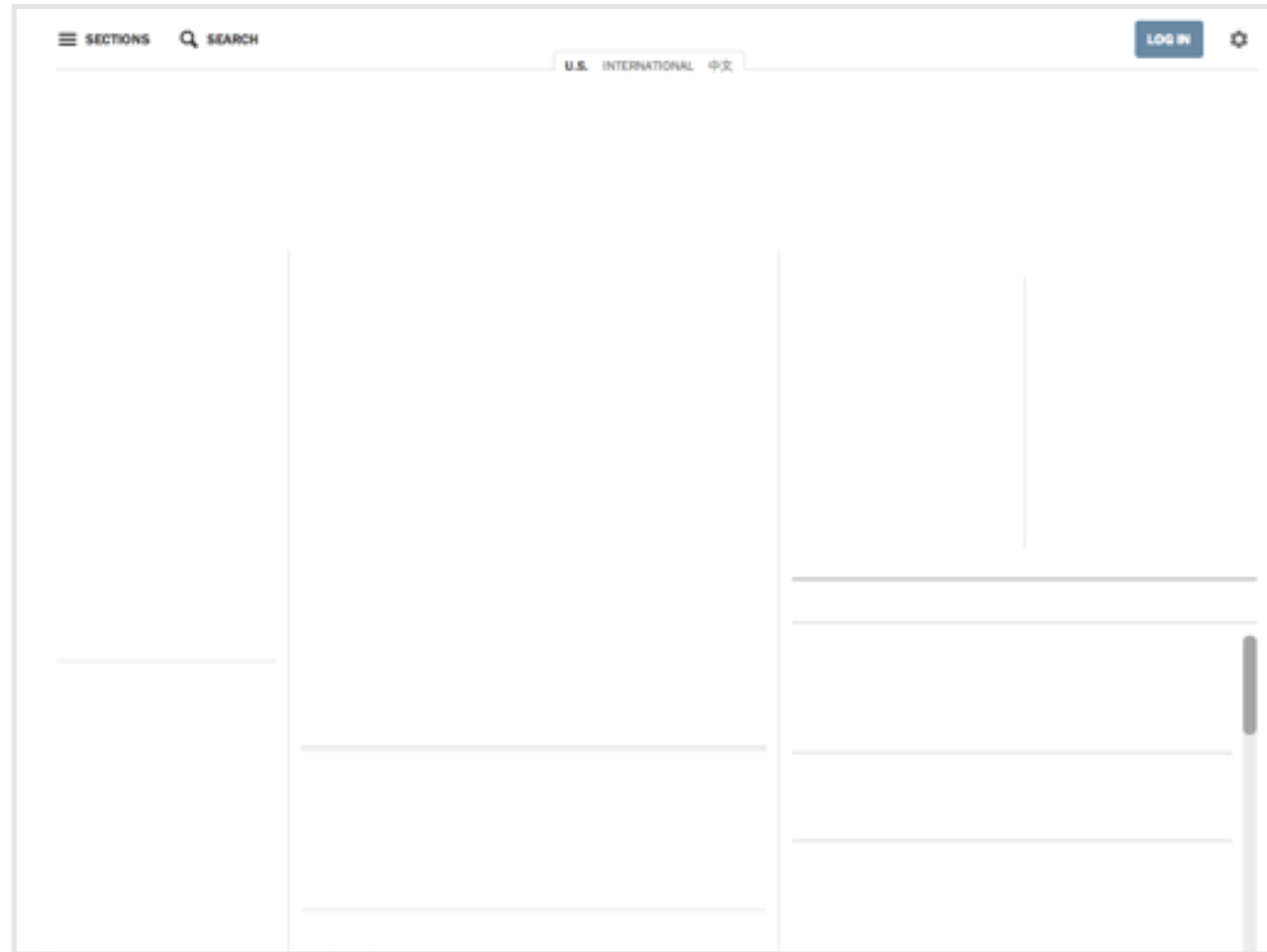
The New York Times

25m Gov. **Jerry Brown**, already California's longest-serving governor, will be sworn in Monday for his fourth term. He has said he aims to shore up the state's fiscal turnaround.

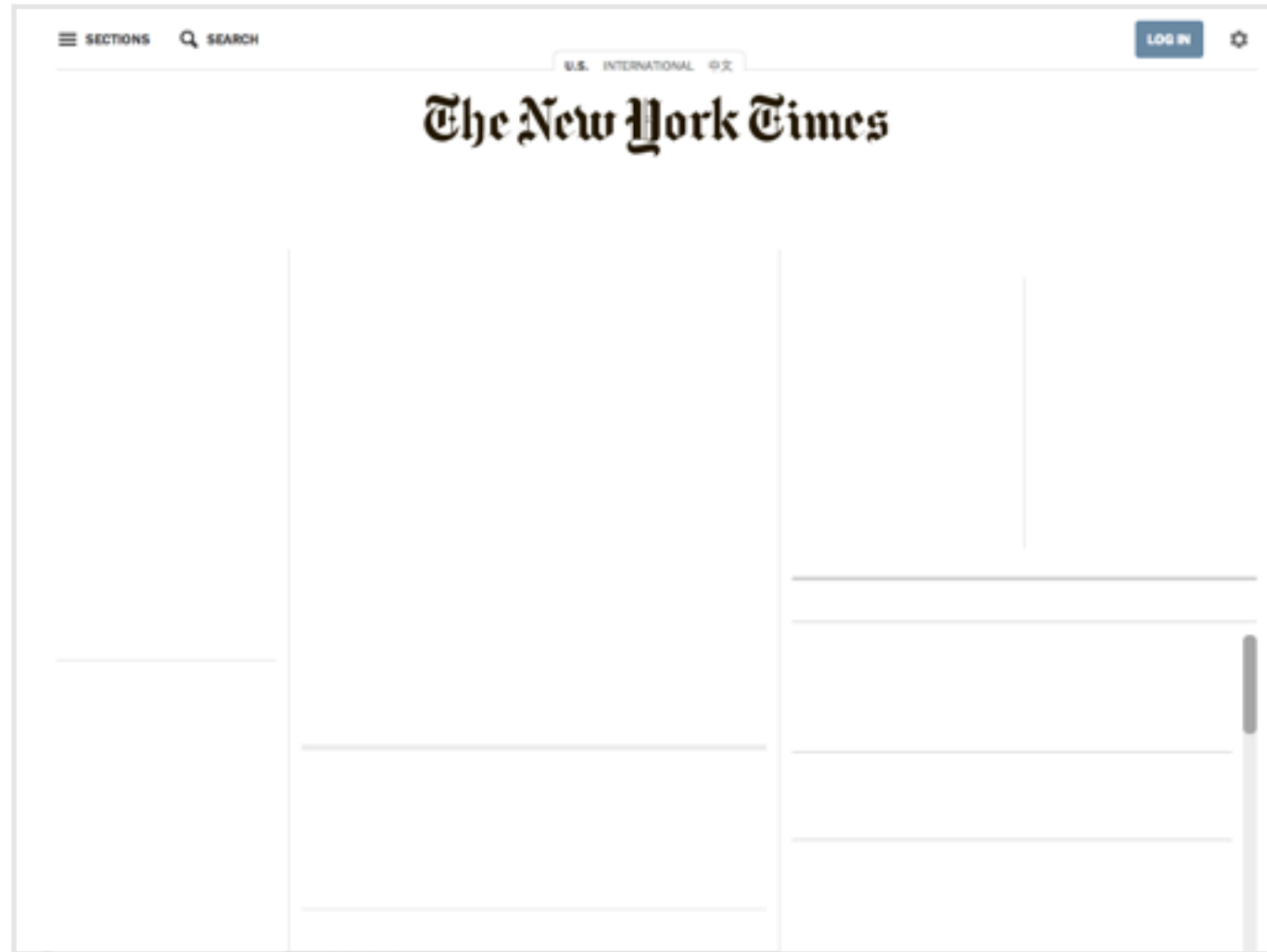
The Los Angeles Times >



WHAT IS HTML?



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[Photo: R. Conrad/The New York Times](#)

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The Los Angeles Times >



HTML BASICS

STRUCTURAL MARKUP

HTML SYNTAX — TAGS

Opening tag

Closing tag

<tag name>content</tag name>

Element

STRUCTURAL TAGS — HEADINGS

- HTML has six “levels” of headings
- `<h1>` is used for main headings
- `<h2>` - `<h6>` are used for subheadings

`<h1>`

`<h2>`

`<h3>`

`<h4>`

`<h5>`

`<h6>`

STRUCTURAL TAGS — PARAGRAPHS

- The `<p>` tag defines a paragraph of text.
- By default, browsers will **show each paragraph on a new line** with some space between it and any subsequent paragraphs.

`<p>`

STRUCTURAL TAGS — UNORDERED LISTS

- ▶ An unordered list is created with the `` element.
- ▶ Each item in the list is placed between an opening `` and closing `` tag.
- ▶ ‘li’ stands for list item

``

``

STRUCTURAL TAGS — WHITE SPACE

- When the browser comes across two or more spaces next to each other, it only displays one space.
- Similarly, if the browser comes across a line break, it treats that as a white space.
- This is known as **white space collapsing**.
- Developers often take advantage of this to make their code easier to read.

ACTIVITY



EXERCISE

KEY OBJECTIVE

- ▶ Add markup to the GA press release

TIMING

5 min

1. Add markup to the press release. Use tags such as the `<h1>`, `<p>`, ``, and `` tags.

SEMANTIC MARKUP

- Add extra information to web pages

SEMANTIC TAGS — STRONG, EM

- The `` element indicates that its content has a strong importance.
- By default, browsers will show the contents of a strong element in **bold**.

``

- The `` tag indicates emphasis that may subtly change the meaning of a sentence.
- By default, browsers will show the contents of a strong element in *italic*.

``

I *think* John was there

I think *John* was there

SEMANTIC TAGS — QUOTATIONS

- Blockquote is used for longer quotes that take up an entire paragraph.
- The `<p>` element is still used inside the `<blockquote>` element.
- The `<q>` element is used for shorter quotes that sit within a paragraph.

`<blockquote>`

`<q>`

HTML BASICS

LINKS

ATTRIBUTES — EXAMPLE

<pizza crust="thin" toppings="pepperoni"></pizza>

HTML SYNTAX — ATTRIBUTES

Attribute
Name

<tagName name="value"></tagName>

Attribute
Value

SEMANTIC TAGS — LINKS

- Specify which page you want to link using the **href** attribute.
- Users can click on anything between the opening and closing `<a>` tags.

Page the link takes you to

`Amazon`

Text to display

ACTIVITY



EXERCISE

KEY OBJECTIVE

- Finish adding markup to the GA Press Release

TIMING

3 min

1. Finish adding markup to the press release by adding in the `<blockquote>` and `<a>` tags.

ACTIVITY



EXERCISE

KEY OBJECTIVE

- Add markup to chocolate chip cookie recipe
- Google and implement `` tag
- *Optional*: Google and implement `` tag

TIMING

2 min

15 min

1. Review copy in index.html and plan out structure with partner
2. Add markup to recipe. You'll want to use at least 8 of the tags discussed in class as well as the `` tag.
3. *Optional*: Google and implement `` tag
4. *Optional*: Add extra tags not covered in class

IF YOU FINISH EARLY

- Start on resume, which will be homework for next week

LEARNING OBJECTIVES

- › Provide an overview of the world of web development
- › Articulate the role of HTML, CSS and JavaScript in front-end development.
- › Recognize the different roles and responsibilities in web development.
- › Apply and experiment with HTML tags.

HTML BASICS

HOMEWORK

HOMEWORK

- Familiarize yourself with Slack (PINNED MESSAGES)
- Begin to organize what you're doing in the class into folders
- **Sign up for github.com and message me your username on Slack**
- Optional: Start thinking about an “About Me” / Resume page

HIGHLY RECOMMENDED COURSE MATERIALS:

- [Jon Duckett - Web Design with HTML, CSS, JavaScript and jQuery Set](#)



FRONT-END WEB DEVELOPMENT

WED SEPT. 27TH

FIELD TRIP TO SPROUT. FREE PIZZA + BEER

(GOOGLE SHEET FOR SNACKS + DESIGN WILL BE SHARED/PINNED IN SLACK)

HTML BASICS

EXIT TICKETS