Web 2.0 & Databases

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Announcements

Have you installed Postgres 10.0?

http://www.postgresqltutorial.com/install-postgresql

Communications over Slack

Slack is the easiest way to get ahold of us - and each other!

We'll also be sending out reminders and information over Slack throughout the semester.

Retrospective

What went well with your Calculator homework assignment?

What could've gone better?

We will use ideaBoardz for this exercise:
http://www.ideaboardz.com/for/Arylee%20McSweaney/2719631

What's Web 2.0 all about?

" A Web 2.0 website may allow users to interact and collaborate with each other ... as creators of user-generated content in a virtual community, in contrast to the first generation of Web 1.0-era websites where people were limited to the passive viewing of content.

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Examples of 1.0 and 2.0 websites?

Interact & Collaborate
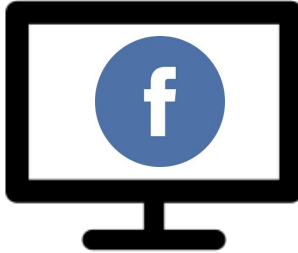
Storage of Content
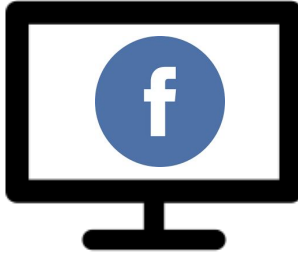
AJAX

AJAX

Asynchronous
JavaScript And XML

" AJAX is all about updating parts of a webpage without having to reload the entire thing. That's pretty useful if your website is big and involved.

You don't want your users having to load the same piece of information multiple times.
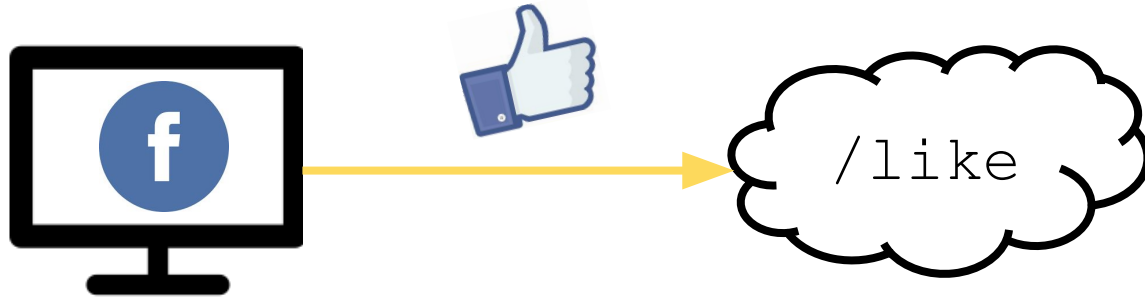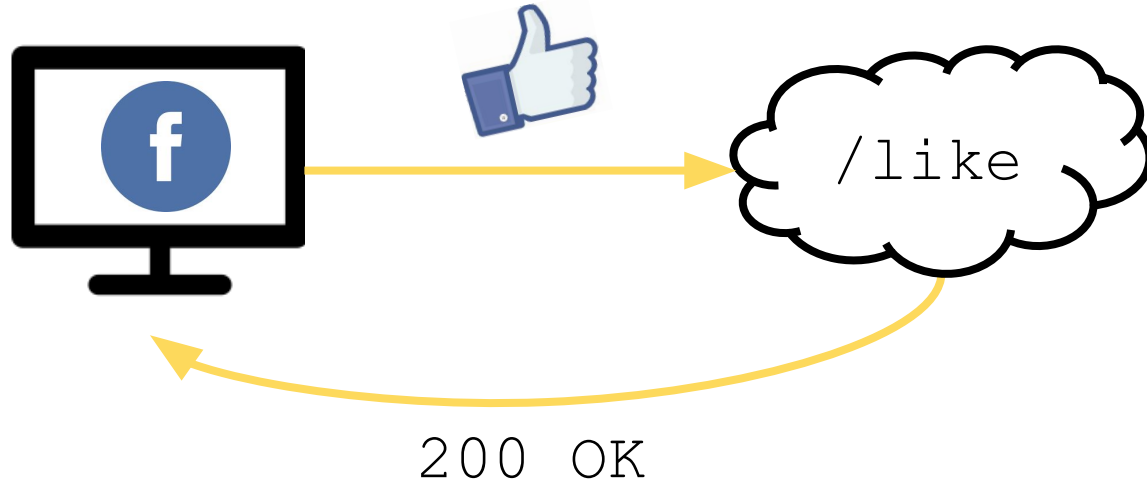
How AJAX requests work
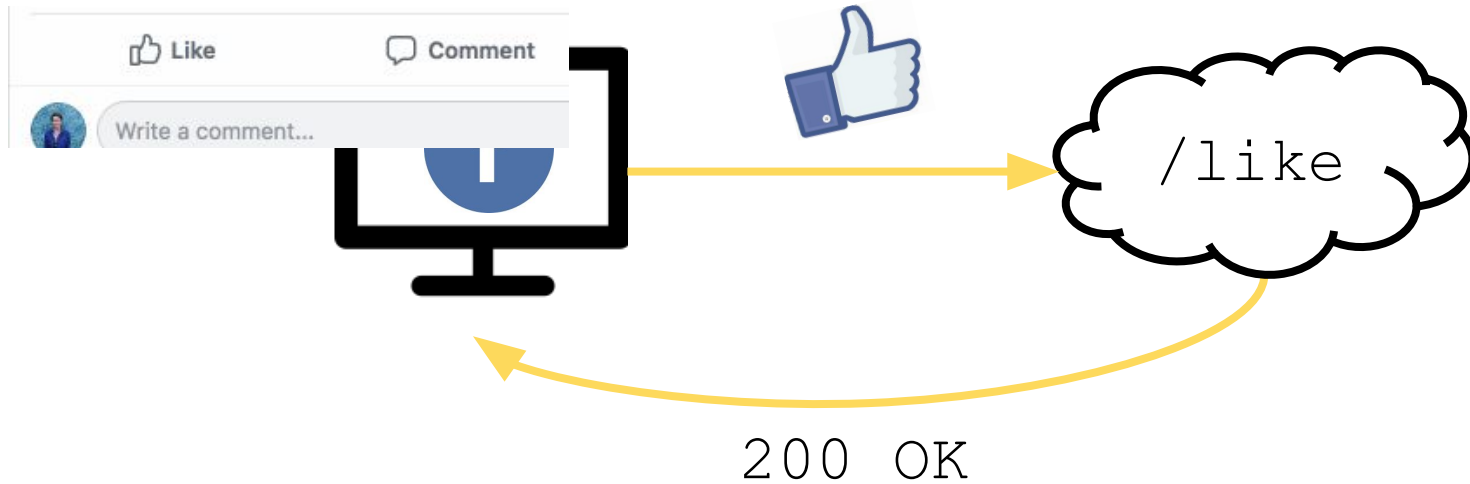
How AJAX requests work

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/like

200 OK

Let's try it ourselves

👉 **TODO: Visit https://bit.ly/2OhHG3a to read about an API we'll be making requests to**

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👉 **TODO: Update the code to display "Percent of Volunteers" per year instead**
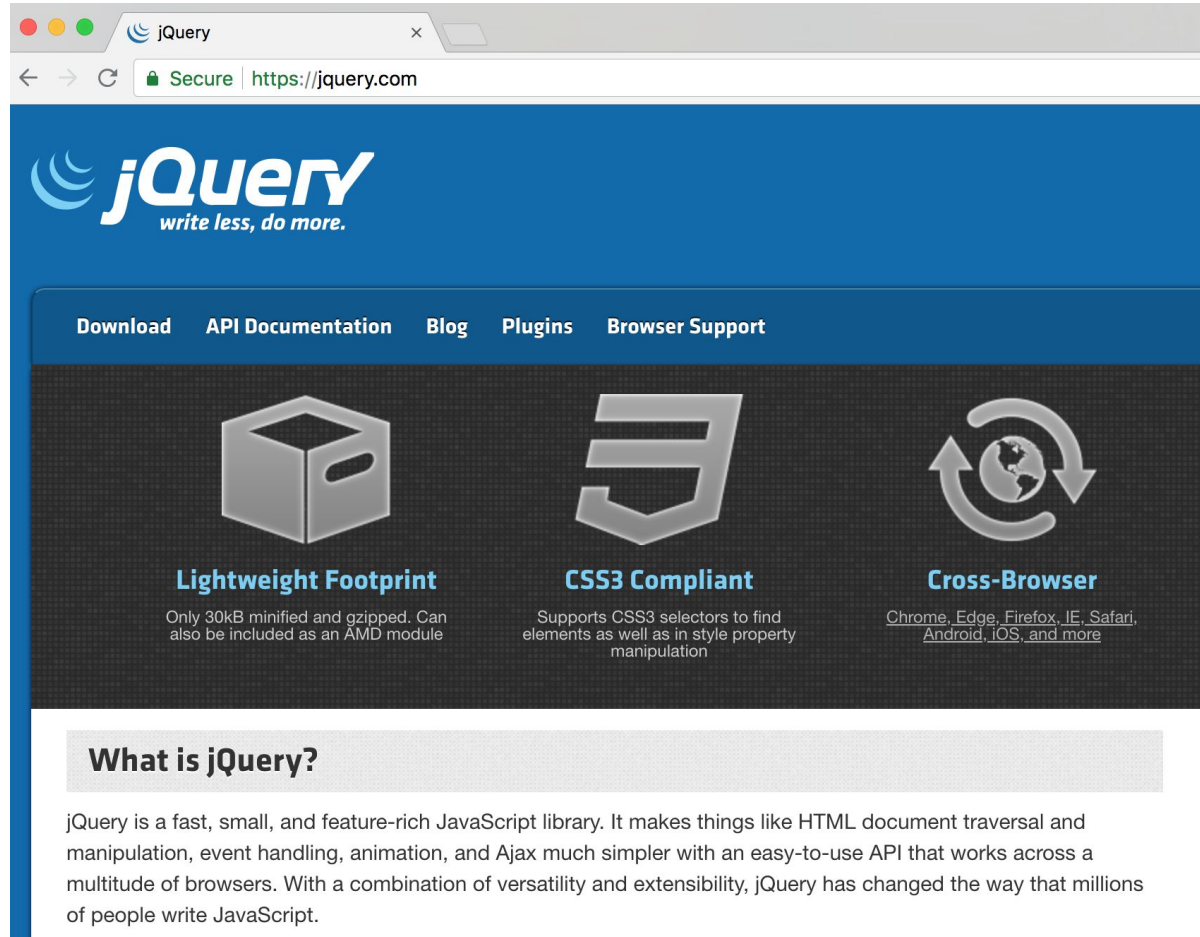
How was that?

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It's a lot of code!

You have to really understand how the browser works

Mixed JavaScript and HTML is hard to understand

jQuery

AJAX + jQuery = 💕❤️‍

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*If you're stuck, check out **api.jquery.com***

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Postgres

Understanding How Databases Work

👉 **In Class Exercise**

Verify Postgres is Installed Correctly:

👉 Connect to Postgres and run the below commands:
\d
\du
\dt

Getting Started with Databases:

Using Postgres

👉 Goal: Create a database storing NYC's Daily Water Consumption records

Interactive Lab: DVD Rentals

👉 1. Using Postgres, download and restore the dvd rentals database

Interactive Lab: DVD Rentals

👉 2. Answer the following questions about DVD Rentals.

Homework: Flask Calculator

Homework

👉 **TODO: Update your Flask web app to have a user interface for a calculator. Requirements:**

- **The calculator app should have a web form;**
- **The web form should submit calculation commands through Ajax requests.**

Once you're done, push it to your calculator repository on Github.

If you're stuck ask in Slack! We'll be checking it periodically over the next week.