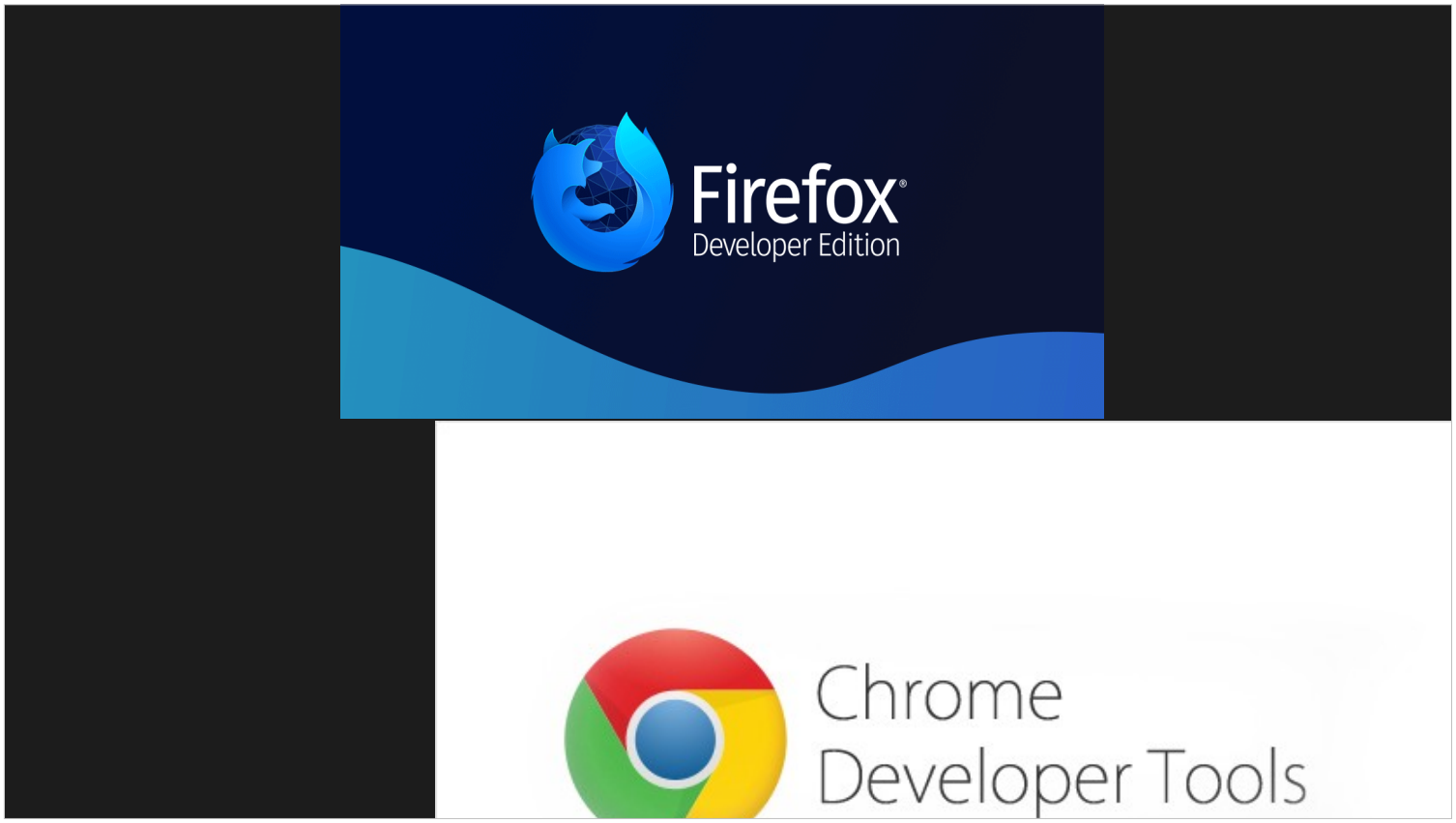
Contemporary Web Development
Lesson 4

InstaStalk solution

The Browser’s developer tools



I would actually largely recommend using Firefox. The reason I am using Chrome for this course is:

A) It is easier to get it installed in the classroom.

B) Firefox has a bug regarding Websockets monitoring which I am teaching in this course.

Firefox developer edition has neat tools for HTML/CSS debugging such as Grid/Flexbox viewer.

The Console

Definitely the most important tool.

Log levels

Exposing Yukino

Using the window object to make our own object accessible in the console.

Responsive View
(Example)

Elements Inspector
(What's wrong in this picture?)

Change the image to
width: 200px;
And the container to:
height: 400px;
display: flex;
justify-content: center;

Can we script this?

"Show console drawer" to see the console at the same time of the elements inspector.

```
let camilo =
   document.querySelector("img[src*='juan']");
camilo.style.width = "200px";
camilo.parentNode.style.display = "flex";
camilo.parentNode.style.justifyContent = "center";
```


Bookmarklet

Automate with TamperMonkey (Or GreaseMonkey for Firefox)

Jamming Facebook’s notification icon

```
let bell =
   document.querySelector("#fbNotificationsJewel");
bell.className = "uiToggle _4962 _4xi2 _5orm";
let bellCount = bell.querySelector(".jewelCount");
bellCount.style.display = "none";
```

A bit deeper

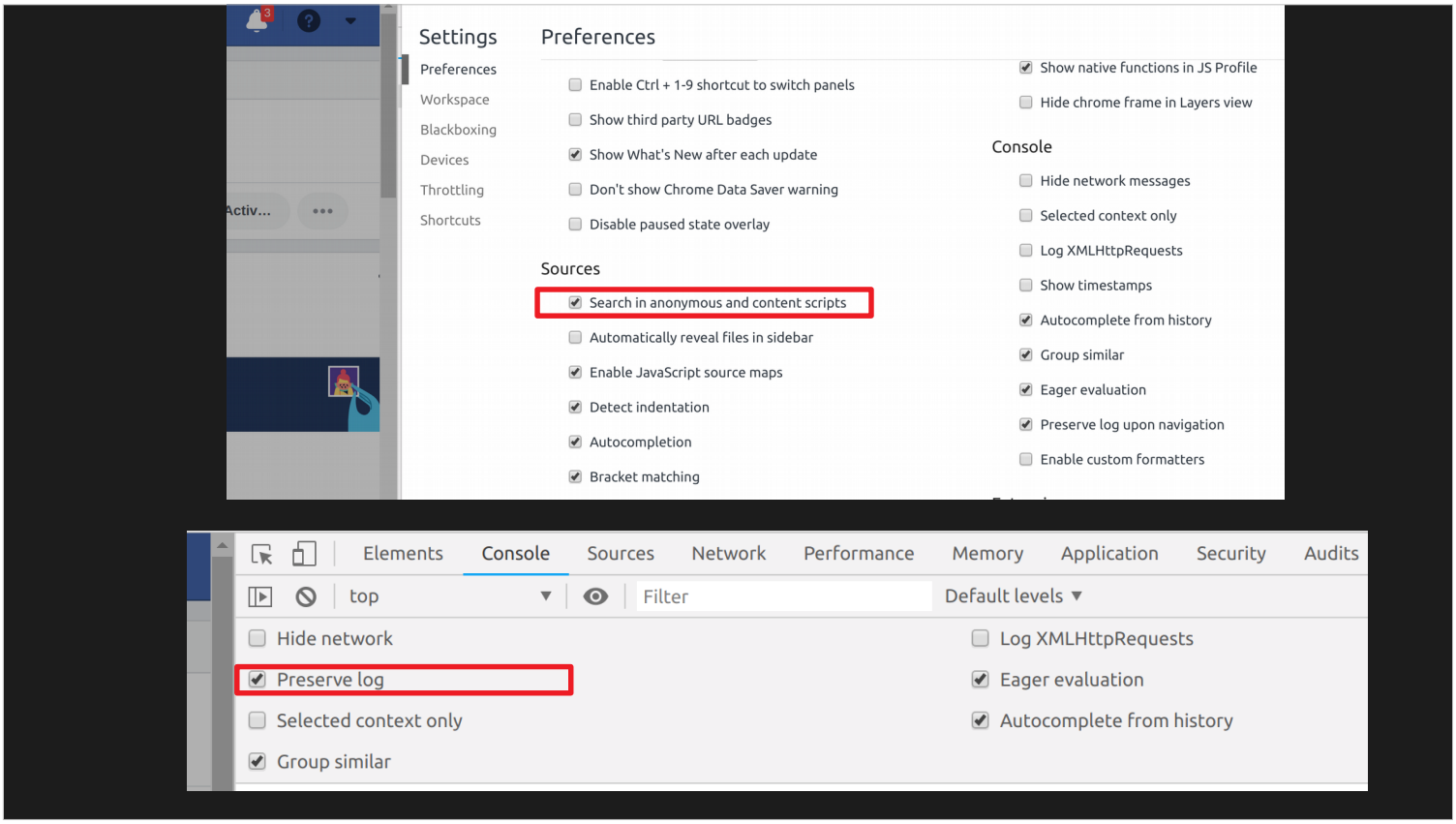
The class gets overridden by facebook’s API!
Let’s try to set it at the element level:

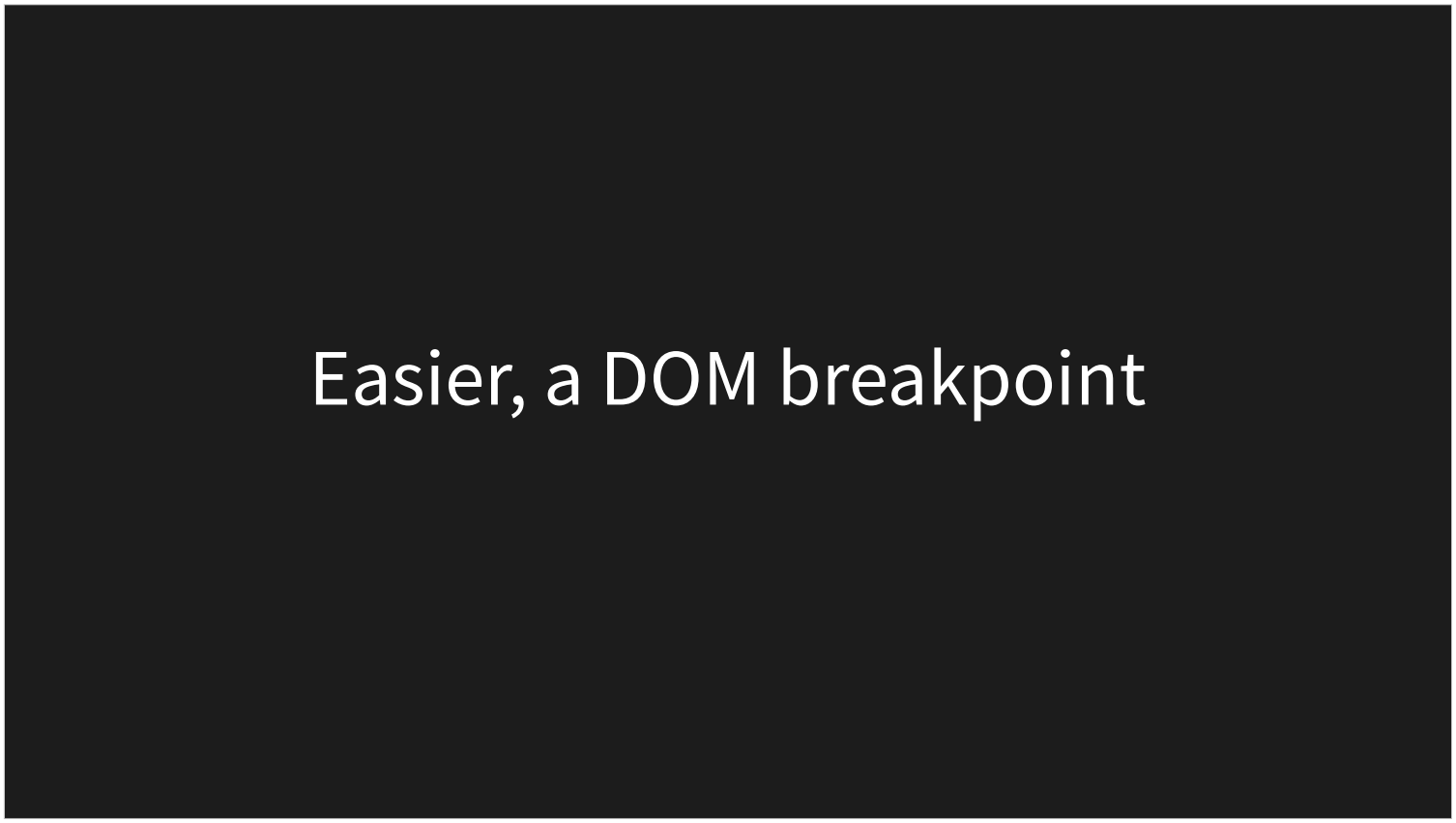
```
let bell =
   document.querySelector("#fbNotificationsJewel");
let icon = bell.querySelector("._2n_9");
icon.style.backgroundPosition = "0 -792px"
let bellCount = bell.querySelector(".jewelCount");
bellCount.style.display = "none";
```

Let’s go even DEEPER

We want to see where it is that the notification button gets updated after loading the page

Search for fbNotificationsJewel, then we could add a source breakpoint.


Settings
Preferences
Workspace
Blackboxing
Devices
Throttling
Shortcuts
Preferences
Enable Ctrl + 1-9 shortcut to switch panels
Show third party URL badges
Show What's New after each update
Don't show Chrome Data Saver warning
Disable paused state overlay
Sources
Search in anonymous and content scripts
Automatically reveal files in sidebar
Enable JavaScript source maps
Detect indentation
Autocompletion
Bracket matching
Show native functions in JS Profile
Hide chrome frame in Layers view
Console
Hide network messages
Selected context only
Log XMLHttpRequests
Show timestamps
Autocomplete from history
Group similar
Eager evaluation
Preserve log upon navigation
Enable custom formatters
Elements
Console
Sources
Network
Performance
Memory
Application
Security
Audits
top
Filter
Default levels
Hide network
Preserve log
Selected context only
Group similar
Log XMLHttpRequests
Eager evaluation
Autocomplete from history



Add a DOM breakpoint for fbNotificationsJewel

Network tracing

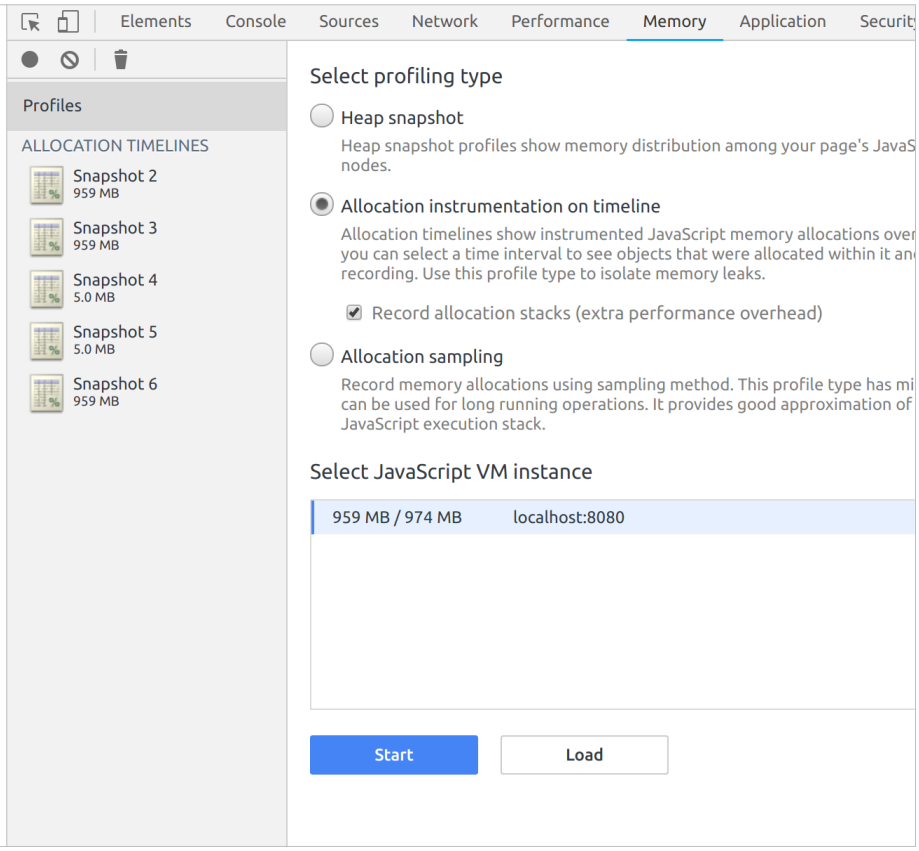
We found that the async request is WebNotificationsPayloadPagelet

Intercepting the network data?
Not in the scope, but here.

Memory viewer – detecting leaks

Memory-leak example.

Allocation timeline



Not covered:
Storage, Performance, Application

Exercise
Tamper away!

Make your own nice tampering and upload it to the group