

Interface Design Framework

(A Brief Overview)

What do we need?

- Free license / Open Source
- Easy to use
- Customizable video player, customizable buttons
- Search view

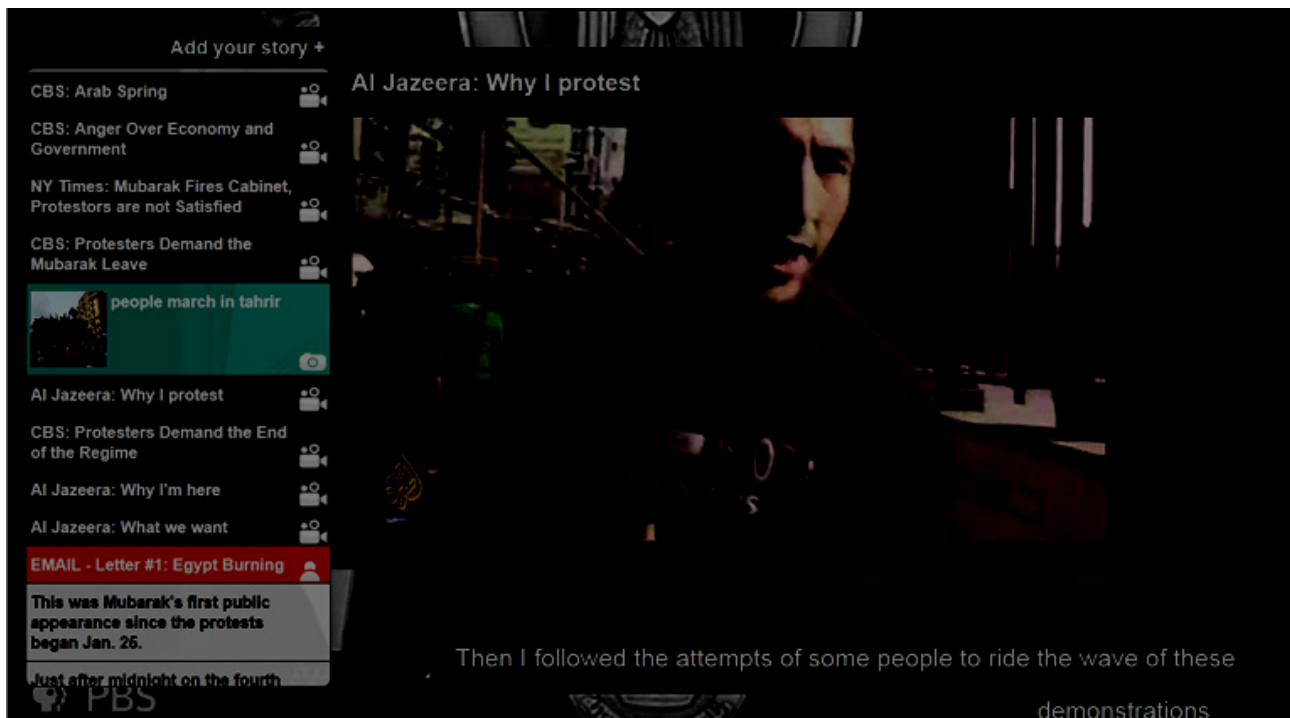
HTML5

- To define the content of web pages
- HTML already offers a video player
- Only supports MP4 and WebM
- „No Framework“
- Really easy to use (like 3 lines of code for the player)
- Free, customizable

Javascript

- To program the behavior of web pages
- JavaScript is easy to learn, because most of us are familiar with Java
- Popcorn.js:
 - HTML5 Media Framework
 - Free (MIT-license), customizable
 - Interactive
 - Easy to use with Youtube (<http://popcornjs.org/popcorn-with-youtube>)
- Alternative: MediaElement.js

(CSS to specify the layout of web pages)



Example of a basic webpage using popcorn: <http://popcornjs.org/popcorn-101>

```
<!doctype html>

<html>

<head>

<script src="http://popcornjs.org/code/dist/popcorn-complete.min.js"></script>
<script>

// ensure the web page (DOM) has loaded
document.addEventListener("DOMContentLoaded", function () {

// Create a popcorn instance by calling Popcorn("#id-of-my-video")
var pop = Popcorn("#ourvideo");

// add a footnote at 2 seconds, and remove it at 6 seconds
pop.footnote({
start: 2,
end: 6,
text: "Pop!",
target: "footnotediv"
});

// play the video right away
pop.play();

}, false);
</script>
</head>

<body>

<video height="180" width="300" id="ourvideo" controls>
<source src="http://videos.mozilla.org/serv/webmademovies/popcornplug.mp4">
<source src="http://videos.mozilla.org/serv/webmademovies/popcornplug.ogv">
<source src="http://videos.mozilla.org/serv/webmademovies/popcornplug.webm">
</video>
<div id="footnotediv"></div>
</body>
</html>
```