

Popcorn - lightly salted: Mozilla's media toolkit for easy mashups

An Introduction

JavaScript-Conference
16th October 2012 in Düsseldorf



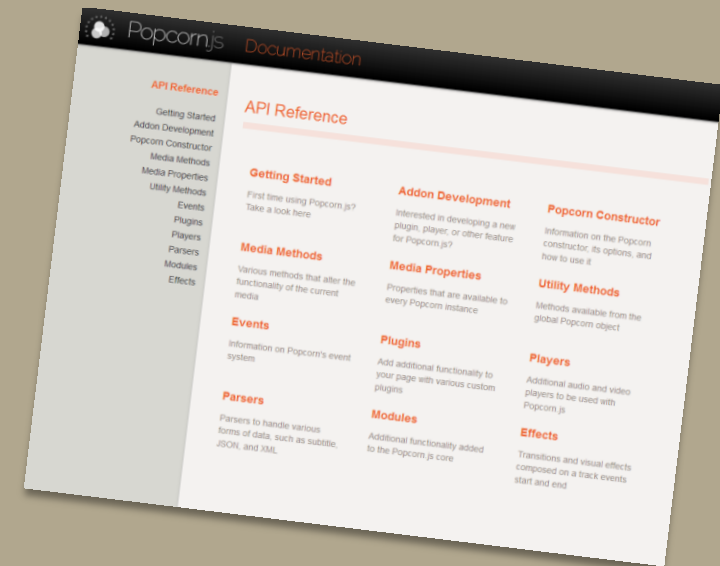
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<http://www.css-manufaktur.de>



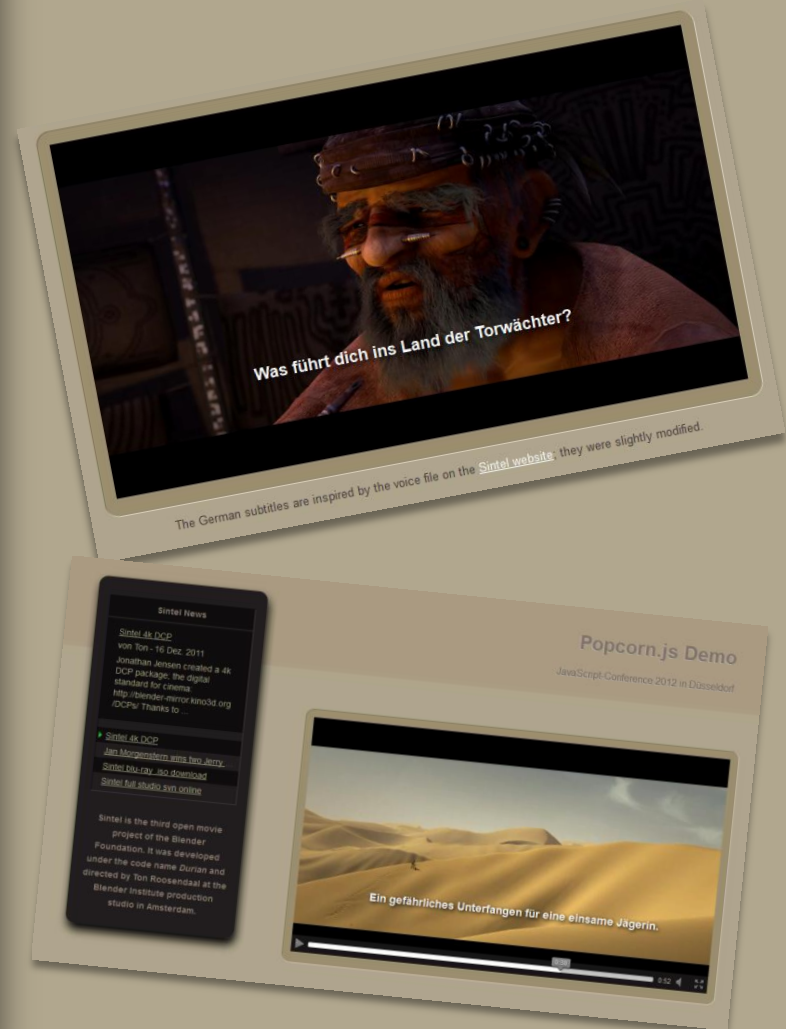
What is Popcorn.js?

- Framework that enriches HTML5-based Media (video + audio) with Web Content
- Javascript-Library („The jQuery for Video“, Mozilla claims)
- Open-Source (MIT License) and Part of the Mozilla Popcorn Project
<http://mozillapopcorn.org/>



What does it?

- Add web content to a HTML5 media element (video, audio),
- Add subtitles and footnotes to an existing video (your own, YouTube or Vimeo),
- Controlling all Popcorn content by timeline, i.e. time based sequences.



How to use it?

– 1st step

- Create HTML5 website with video tag + unique ID
- Add your videos (at least OGG- and MP4-Format)

HTML Code: body

```
<video id="myvideo"  
  checked="true"  
  controls="controls"  
  poster="poster.png">
```

```
<source src="sintel_trailer-  
480p.ogg" type="video/ogg">
```

```
<source src="sintel_trailer-  
480p.mp4" type="video/mp4">
```

```
</video>
```

How to use it?

– 2nd step

- Bind popcorn.js in the `<head>`-area of the Website

or

- put the file on your server,
- build your own version with the Build Tool
<http://mozillapopcorn.org/build-tool/>.

HTML Code: head

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

How you use it?

– 3rd step

- Create your custom script
 - Start with an event listener to know when the DOM is ready
 - Create a variable which holds the new popcorn instance
 - Add some plugin code

Custom Javascript:

```
document.addEventListener(
'DOMContentLoaded',function()
{
  var popcorn = Popcorn(
    "#myvideo" );

  popcorn.footnote({
    start: 12,
    end: 30,
    text: "Hello World!",
    target: "footnotediv"
  });

}, false);
```

How to use it?

- Option

- Insert an external video (Youtube or Vimeo)
- Use the appropriate Popcorn plugin (e.g. Youtube)

JS Code: Youtube Plugin

```
var pop = Popcorn.smart(  
  '#container',  
  "http://www.youtube.com/watch?  
v=DTpQxzejDXM" );
```

HTML Code: body

```
<div id="container"></div>
```


Popcorn Maker



- Produces Popcorn projects without coding
- App in active development (currently version 0.5.2)
- Version 1.0 is announced for November 2012

<http://mozillapopcorn.org/popcorn-maker/>



Test Pages

- HTML5 video tag
<http://popcorn.css-manufaktur.de/>
- Youtube video
<http://popcorn.css-manufaktur.de/index2.html>

Both with a test case to keep Popcorn.js content of „container“ in fullscreen mode.



More Information

- Project repository
<https://github.com/mozilla/popcorn-js>
- Documentation
<http://popcornjs.org/popcorn-docs/index.html>
- Roadmap
<https://mozillalabs.com/en-US/Popcorn/>
- Demo Portfolio
<http://popcornjs.org/demos>
- Talk at news:wired in 02/2012
<http://christianheilmann.com/2012/02/02/web-enabled-video-at-newsrewired/>
- My Article in German Linux Magazin
(engl. version printed only)
<http://www.linux-magazin.de/Heft-Abo/Ausgaben/2012/04/Mediatoolkit-Popcorn>

