



Vývoj na straně klienta

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Historie HTML

- HTML (18 tagů)
- Směr k SGML
- ``, `<marquee>` a `<blink>`
- XHTML is dead
- HTML5

Historie HTML

- HTML (18 tagů)
- Směr k SGML
- ``, `<marquee>` a `<blink>`
- Konec 90. let web uměl víc než bylo třeba
- <http://www.angelfire.com/super/badwebs/>
- XHTML is dead
- HTML5

XHTML vs HTML5

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"  
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml">  
<head>  
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />  
<title>Title of the document</title>  
</head>  
<body>  
<p>The content of the document.</p>  
</body>  
</html>
```

XHTML vs HTML5

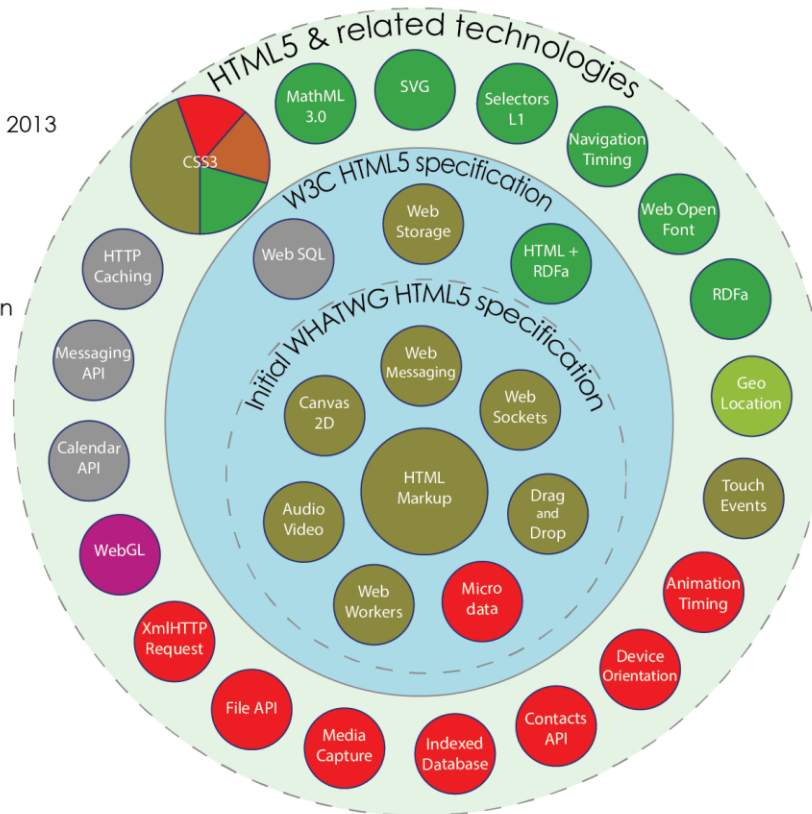
```
<!DOCTYPE html>  
<tiTLe>Title of the document</Title>  
<meta charset="utf-8">  
<p>The content of the document.
```

HTML5 standardy

HTML5

Taxonomy & Status on January 20, 2013

- W3C Recommendation
- Proposed Recommendation
- Candidate Recommendation
- Last Call
- Working Draft
- Non-W3C Specifications
- Deprecated



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Rychlé ukázky

- Geolokace
- History API
- Web Workers
- Canvas (<http://wolf3d.atw.hu/>)
- Další: <http://slides.html5rocks.com>

HTML a CSS

- Sémantika: `<article>`, `<section>`, `<nav>`
- ARIA: `<div role="navigation">`
- Formuláře: email, date, range, placeholders, required, telephone, number
- Audio, Video
- CSS: selectory (a la jQuery), stíny, rohy, průhlednosti, okraje, boxování, sloupce, transform

Client Side MVC / MVVM

- API Server side
- Model: drží data
- View: aktivní view (data-bind, události, ...)
- ViewModel: specializovaný controller
- „representation of data and operations that can be performed on a UI “

Client side

- Event driven
- Minimální zatížení serveru
- API-first
- Offline, localstorage, ...
- Nevýhody?

Frameworky

- Angular
- Backbone
- Knockout
- Ember
- Knockback
- JavascriptMVC
- ...

Offline

- Web Storage
- Web SQL vs. Indexed DB
- Application cache
- File API

Projekty Celebrio

- <http://lasaris.fi.muni.cz/pps/ppsprojects>
- API
- Nové aplikace
- Vývoj pro mobilní zařízení (Java / .NET)
- Ember / Offline / Data Binding

Zajímavé odkazy

- <http://caniuse.com/>
- <http://www.html5rocks.com/>
- <http://diveintohtml5.info/>
- <http://www.w3.org/html/wg/drafts/html/master/>
- <http://addyosmani.com/blog/understanding-mvvm-a-guide-for-javascript-developers/>
- <http://codebrief.com/2012/01/the-top-10-javascript-mvc-frameworks-reviewed/>
- <http://paulhammant.com/2012/02/13/client-side-mvc-frameworks-compared/>