

Books and the Web

- "On" the Web vs. "of" the Web
- "on the Web" means Web as a delivery channel
- "of the Web" means Web as the service fabric
- Think "Flash sites" or "Google docs" vs. "Web sites"
- The first two require proprietary client-side support
- Web sites require only standards client-side
- Current ebook readers are closed devices
- Consuming machines within a walled content garden
- Maybe some reuse of web technology, but primarily for engineering reasons (e.g. webkit for rendering)

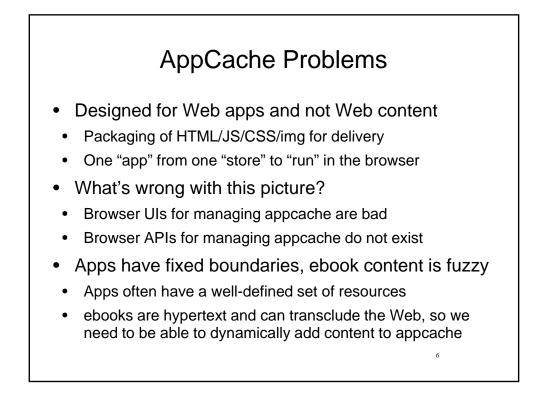
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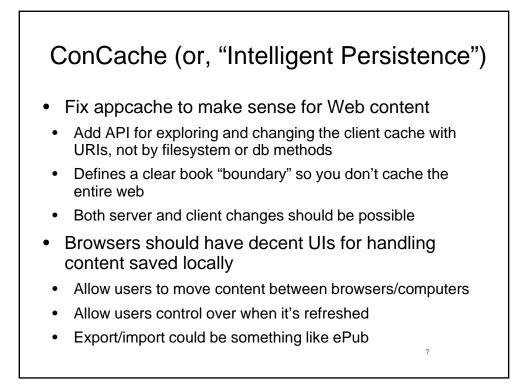
A Browser is a Reader A Reader is a Browser

- Making eBooks Web content is essential
 - Prevents lock-in, promotes client diversity, open access
- Content standards (HTML/CSS) are more than good enough
- Making eBooks Web resources is essential as well
- eBooks should be first-class (linkable) Web citizens
- Resource standards (URI/HTTP) should be followed
- Open access and service innovation are critical
- Current packaging and distribution makes user-defined book libraries impossible, allowing only publisher and platform-based ones
- Closed architectures should be left to industry for market segments that need and demand them

Example: Storing Content

- Our scenario requires a uniform browser-agnostic solution for offline local access to resources
 - Resources on the Web are identified by URIs
- Offline mode should provide offline access to URIs
- Many "Web technologies" are not very webby
 - Resource access requires much more than a URI
- localStorage is a primitive client-side key/value store
- File API provides access to the client's file system
- If it doesn't have a HTTP URI, it's not on the Web
- Must respond to the Web's uniform interface
- Interactions can be negotiated by the Web's fabric, not by APIs that create a parallel universe





OS-ifying the Browser	
Spec Type	Specs
(none)	Clipboard API and Events ^{WD} Evilscreen ^{WD} HTML Microdata ^{WD} HTML5 Web Messaging ^{CR} High Resolution Time ^{REC} IndieU: Events 1.0 ^{WD} Media Capture API ModioStream Processing API MediaStream Recording ^{WD} Messaging API ^{VD} Navigation Timing ^{AEC} Mavigation Timing 2 ^{WD} Page Visibility ^{CR} Performance. Timeline ^{CR} Eick Media Intent ^{WD} Pointer Lock ^{WD} Programmable HTHP Caching and Serving Proximity. Events ^{WD} Resource. Timing ^{CR} Timing Control for Script-Based Aniamions ^{WD} UK ^{WD} User-Timing ^{CR} Web Alarms API Specification ^{WD} Web Intents ^{WD} Web Intents Addendum — Local Services ^{WD} Web Notifications ^{WD} Web Workers ^{CR} WebDriver ^{WD}
	Network Information API ^{WD} Push API ^{WD} Server-Sent Events ^{CR} WebRTC 1.0: Real-time Communication Between Browsers ^{WD} WebSocket API ^{CR} XMLHttpRequest ^{WD} XMLHttpRequest Level 2 ^{WD}
DOM	DOM Parsing and Serialization WD Selectors API Level 1 WD Selectors API Level 2 WD
File System	File API: WD File API: Directories and System WD File API: Writer WD
Graphics	HTML Canvas 2D Context WD
	Ambient Lipht Events ^{WD} Battery Status Event Specification ^{CR} DeviceOrientation Event Specification ^{WD} Gamepad ^{WD} Geolocation API Specification ^{PR} Network Service Discovery ^{WD} Pointer Events ^{WD} Screen Orientation API ^{WD} Touch Events Version 1 ^{WD} Vibration API
Media	Audio Processing API WD HTML Media Capture WD Media Source Extensions WD Web Audio API WD Web MIDI API WD
OS-Environment	Colendar API WD Contacts API WD
Security	Web Cryptography API WD WebCrypto Key Discovery WD
Storage	Indexed Database API WD Quota Management API WD Web SQL Database Web Storage CR

