



## HTML 5 Rev 3

### 1. HTML5 Overview

- HTML5 History/Timeline
- HTML5 Design Principles
- What is (and isn't) HTML5
- HTML Review
- Doctype
- Root Element
- <head> Element
- Syntax

### 2. HTML5 Elements

- Content Models
- New Structural Elements
- HTML4/HTML5 Comparison
- Other New Elements
- Redefined Elements
- Obsolete Elements
- HTML5 Outlines
- When Can I Use It?
- Feature Detection: Techniques
- Feature Detection: Examples
- Feature Detection: Modernizr
- CSS Styling
- Validating
- Accessibility (WAI-ARIA)

### 3. Forms

- HTML5 Forms Overview
- New Input Types: Contact Info
- New Input Types: Native Date Picking
- Opera's Rendering of Date Input Types
- New Input Types: Number and Range
- New Attributes
- Detecting Support
- Accessibility (WAI-ARIA)
- Styling Form Elements
- Avoiding Validation
- The Constraint Validation API
- Custom Validation Example

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#### **4. HTML5 Media**

- Audio and Video Element
- Using the Media Elements
- Attributes
- Formats
- Serving Device-Specific Files
- Accessibility
- Backwards Compatibility
- Media API
- Rolling Custom Controls

#### **5. Canvas**

- Canvas Overview
- The Canvas Element
- The 2D Context
- The Coordinate System
- Rectangles
- Paths
- Paths; Drawing Methods
- Curves and Arcs
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- Gradients
- Patterns
- Transformations: Scale, Translate
- Transformations: Rotate
- Drawing States
- Image Drawing
- Animations
- Responding to User Events: Keyboard
- Responding to User Events: Mouse
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- Text
- Pixel Manipulations
- toDataURL()
- Accessibility
- Canvas and Internet Explorer

#### **6. Geolocation**

- Geolocation Overview
- Privacy Concerns
- API Methods
- API Attributes
- Using the Geolocation API: Success Handlers
- Using the Geolocation API: Error Handlers

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Using the Geolocation API: The Third Argument  
watchPosition() and clearWatch()  
Fallback Support: Geo.js

## **7. Local Data Storage**

Local Data Storage Overview  
Web Storage Overview  
Web Storage API  
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JSON (JavaScript Object Notation)  
Accessing Storage  
The Storage Event  
Database APIs  
Web SQL Databases  
Web Databases: Opening the DB, Creating Tables, and Inserting Data  
Web Databases: Selecting, Using, and Deleting Data

## **8. Web Messaging**

Cross Document Messaging  
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Server-Sent Events Overview  
EventSource API  
Using the EventSource API: Client-side  
Event Stream Format: Server-side  
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XMLHttpRequest Level 2  
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Making a Cross-Origin Request  
Progress Events  
Using Progress Events

## **9. Web Workers**

Web Workers Overview  
What Can You Do with a Worker?  
Message Passing  
Handling Errors  
Stopping Workers  
Loading and Executing External Scripts  
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Subworkers: An Example  
Security Notes  
Shared Workers: The Parent Page  
Shared Workers: Within the Worker

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