



COURSE OUTLINE

Course information

- Welcome!
- Course outline, grading and due dates
- Course practical information
- Course tools

About W3C and the Web

- About W3C and the Web
- Why accessibility is important
- Why internationalization is important
- W3C tools

Week 1: HTML5 Basics

- 1.1 Introduction to week 1
- 1.2 From HTML1.0 to HTML5
- 1.3 New structural elements
- 1.4 Other elements and attributes
- 1.5 Microdata
- 1.6 Exercises – Week 1

Week 2: HTML5 Multimedia

- 2.1 Introduction to week 2
- 2.2 Streaming multimedia content
- 2.3 Subtitles and closed captions
- 2.4 Enhanced HTML5 media players
- 2.5 Webcam, etc.: the getUserMedia API
- 2.6 Exercises – Week 2

Week 3: HTML5 Graphics

- 3.1 Introduction to Week 3
- 3.2 Basics of HTML5 canvas
- 3.3 Immediate drawing mode
- 3.4 Path drawing mode
- 3.5 Colors, gradients, patterns, etc.
- 3.6 Exercises – Week 3

Week 4: HTML5 Animations


- 4.1 Introduction to Week 4
- 4.2 Basic animation techniques
- 4.3 Canvas and user interaction (mouse, keyboard, etc.)
- 4.4 Advanced canvas functionalities
- 4.5 Exercises – Week 4


Week 5: HTML5 Forms


- 5.1 Introduction to Week 5
- 5.2 Introduction to HTML5 forms
- 5.3 Accessible forms
- 5.4 New input types
- 5.5 New form attributes
- 5.6 New elements related to forms
- 5.7 Form validation API
- 5.8 Exercises – Week 5


Week 6: HTML5 Basic APIs

- 6.1 Introduction to Week 6
- 6.2 Introduction to HTML5 APIs
- 6.3 HTML5 Cache
- 6.4 The Web Storage API
- 6.5 The File API
- 6.6 The Geolocation API
- 6.7 Where to from here?
- 6.8 Final exam

 LENGTH: 6 weeks

 EFFORT: 6-8 hours per week

 LEVEL: Intermediate

 INSTITUTION: W3Cx