

IN-CLASS STUDENT ACTIVITY 1.1: UNDERSTAND THE PLATFORM FUNDAMENTALS

Lesson Objective 1.1:

Understand the platform fundamentals. *Topics include:* leveraging existing HTML5 skills and content for slate/tablet applications.

Resources, software, and additional files needed for this lesson:

1. Internet access

Guiding questions:

1. How does a web designer accommodate the various devices that might be used to view a website?
2. What must be considered when selecting a host for your website or application?
3. How can HTML5 enhance the user experience on a slate/tablet hardware platform?

Student activity:

Read the following scenario and answer the questions. Complete the hands-on activities. Request assistance from the instructor as needed. Verify your answers with the instructor.

Complete the table to identify the HTML5 changes and determine which elements are supported by each version of the browser.

Scenario:

Cassie Hicks is just starting a teaching position at a local high school and has been assigned to teach a web design course in addition to computer science courses.

To prepare for the course, Cassie needs to make sure she knows the latest trends and tools used in the industry. She quickly learns that the biggest change is the move from HTML4 to HTML5. Cassie decides to create a table with a list of some of the major changes and the current support by browser version. She can then use this table to help her students understand how these types of changes are implemented incrementally by browser manufacturers and why they must always test in various browsers for compatibility.

Content:

1. Where should Cassie start looking for information on HTML5?
2. Why is it important to understand the support of HTML5 on various platforms?
3. Complete the following table by indicating whether or not Internet Explorer 9 supports the new tag.

| New HTML5 tag | Internet Explorer® 9 Support? |
|-----------------|-------------------------------|
| <!DOCTYPE html> | |
| <audio> | |
| <video> | |
| <canvas> | |
| <time> | |
| <nav> | |
| <details> | |
| <link> | |