

# Web-Development-Applications Exam Study Guide - Reliable Web-Development-Applications Test Questions

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## **WGU-C777 Web Development Applications Final Assessment and Test Exam with Questions and Correct Verified Answers Graded A+**

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## WGU Web-Development-Applications Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Responsive Web Design (RWD) for Browsers and Apps: This section of the exam measures skills of Front-End Designers and covers concepts related to mobile-first layout planning, responsive frameworks, and techniques used to ensure compatibility with modern browsers and applications. Candidates must demonstrate how to adjust elements for better usability on mobile devices and apply responsive strategies that allow a single design to function seamlessly across various environments.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>HTML5, CSS3, and JavaScript Foundations: This section of the exam measures skills of Web Developers and covers the essential ability to manually code using HTML5, CSS3, and JavaScript to create structured, visually styled, and interactive web content. It focuses on building accurate page layouts, applying modern styling rules, and writing basic scripts that support user interaction. The aim is to ensure candidates can construct professional web documents using current standards and properly integrate all three technologies.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>Validation, Testing, and Form Development: This section of the exam measures skills of Web Developers and covers the ability to validate code, test web pages for accuracy, and build form components. It includes understanding how to detect errors, ensure compliance with standards, and implement form fields with inline validation to improve user experience. The focus is on creating forms that work reliably, meet usability expectations, and maintain proper data entry flow.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>Creating Adaptive Web Documents and Pages: This section of the exam measures skills of Front-End Designers and covers the techniques needed to make websites display correctly across traditional desktops and mobile devices. It emphasizes adaptive page layout, flexible formatting, and user-friendly presentation so that content remains readable and functional on screens of different sizes. Candidates are expected to show an understanding of how to create consistent designs that respond smoothly to device changes.</li> </ul>

## WGU Web Development Applications Sample Questions (Q125-Q130):

### NEW QUESTION # 125

Which CSS transformation method should a developer use to reposition an element horizontally on the 2-D plane?

- A. Scale (x,y)
- B. Translate(n)
- C. Scalex(n)
- D. Skewx (angle)

**Answer: B**

Explanation:

The translateX(n) method in CSS is used to move an element horizontally on the 2-D plane by a specified distance. This transformation repositions the element along the X-axis.

\* translateX(n) Method: The translateX(n) function moves an element horizontally by n units. Positive values move the element to the right, while negative values move it to the left.

\* Usage Example:

```
element {
transform: translateX(100px);
}
```

In this example, the element is moved 100 pixels to the right.

\* Properties:

\* n: This represents the distance to move the element. It can be specified in various units such as pixels (px), percentages (%), ems (em), etc.

References:

- \* MDN Web Docs on transform
- \* W3C CSS Transforms Module Level 1

### NEW QUESTION # 126

What is the purpose of cascading style sheets (CSSs)?

- **A. Setting rules to define how page content looks when rendered**
- B. Structuring and describing web page content
- C. Providing functionality that was previously provided by plug-ins
- D. Changing the content of a web page dynamically

**Answer: A**

Explanation:

Cascading Style Sheets (CSS) are used to control the presentation of web pages, including aspects such as layout, colors, fonts, and other visual styles. They are a cornerstone technology of the World Wide Web, along with HTML and JavaScript. Here's a detailed breakdown:

\* Purpose of CSS: CSS is designed to enable the separation of document content (written in HTML or a similar markup language) from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting, and reduce complexity and repetition in the structural content.

\* Setting Visual Rules: CSS allows developers to define rules that specify how different elements of a web page should be displayed. For example, CSS rules can change text color, font size, spacing between elements, and even the overall layout of the web page. These rules are applied by the browser to render the web page according to the defined styles.

\* Cascading Nature: The term "cascading" in CSS refers to the process of combining multiple style sheets and resolving conflicts between different CSS rules. This allows developers to use different sources of style information, which can be combined in a hierarchical manner. For instance, a browser style sheet, an external style sheet, and inline styles can all contribute to the final rendering of a web page.

\* Benefits of CSS:

\* Consistency: By using CSS, developers can ensure a consistent look and feel across multiple web pages.

\* Maintainability: CSS makes it easier to update the visual presentation of a web page without altering the HTML structure. This is particularly useful for maintaining large websites.

\* Reusability: CSS rules can be reused across multiple pages, reducing redundancy and making it easier to implement changes globally.

\* Examples of CSS:

css

Copy code

```
body {  
background-color: lightblue;  
}  
h1 {  
color: navy;  
margin-left: 20px;  
}
```

In this example, the body element is given a light blue background color, and the h1 element is styled with a navy color and a left margin of 20 pixels.

References:

- \* MDN Web Docs on CSS
- \* W3C CSS Specifications

### NEW QUESTION # 127

A web developer need to ensure that a message appears if the user's browser does not support the audio files on a web page. How should this designer code the audio element?

- A. 

```
<audio alt="No mpeg support." >
  <source src="audio/song.mp3" type="audio/mpeg" />
</audio>
```
- B. 

```
<audio>
  <source src="audio/song.mp3" type="audio/mpeg" />
</audio>
No mpeg support.
```
- C. 

```
<audio alt="No mpeg support." >
  <source src="audio/song.mp3" type="audio/mpeg" />
</audio>
```
- D. 

```
<audio>
  <source src="audio/song.mp3" type="audio/mpeg" />
  No mpeg support.
</audio>
```

**Answer: D**

Explanation:

To ensure that a message appears if the user's browser does not support the audio files on a web page, the developer should use the <audio> element correctly. The <audio> element supports fallback content, which is displayed if the browser does not support the specified audio formats.

\* Correct Usage:

\* Fallback Content: Place the message as fallback content inside the <audio> element. Browsers that do not support the audio format will display this message.

\* Example:

```
<audio>
<source src="audio/song.mp3" type="audio/mpeg" />
No mpeg support.
</audio>
```

\* Explanation of Options:

\* Option A: Incorrect. The alt attribute is not valid for the <source> element.

\* Option B: Incorrect. The alt attribute is not valid for the <audio> element.

\* Option C: Incorrect. The alt attribute is used incorrectly in the <audio> element.

\* Option D: Correct. The message "No mpeg support." is placed correctly as fallback content inside the <audio> element.

\* References:

\* W3C HTML5 Specification - The audio element

\* MDN Web Docs - <audio>

Using the fallback content inside the <audio> element ensures that users with unsupported browsers receive a meaningful message, improving the overall user experience.

### NEW QUESTION # 128

Given the following JavaScript code:

```
var obj = {
  sayHello: function() {
    alert("Hello");
  }
};
```

Which code segment calls the method?

- A. Obj,sayHello;
- B. Window,sayhello();

**Answer: A**

Explanation:

To call the sayHello method in the given JavaScript object, you need to use the object's name followed by the method name with parentheses.

\* Correct Method Call:

\* Given the object definition:

```
var obj = {
  sayHello: function() {
    alert("Hello");
  }
};
```

\* To call the method sayHello on the object obj:

```
obj.sayHello();
```

\* Explanation:

\* Option A: Obj.sayHello; is incorrect syntax. The correct syntax is obj.sayHello();

\* Option B: Window.sayHello(); is incorrect because the method is defined in the obj object, not the window object.

\* References:

\* MDN Web Docs - Functions

\* W3Schools - JavaScript Objects





### NEW QUESTION # 129

Given the following CSS code:

```
body {
  background-color: white;
}

.name
color: black
```

Which portion is the rule?

- A. 
- B. 
- C. 
- D. 

**Answer: A**

Explanation:

In CSS, a rule is composed of a selector and a declaration block. The rule is the entire part that defines how styles should be applied to elements matching the selector.

\* CSS Rule Components:

\* Selector: Identifies the HTML elements to be styled (e.g., body, .name, #item).

\* Declaration Block: Contains one or more declarations, each consisting of a property and a value, enclosed in curly braces {}.

\* Example Analysis:

\* Option A:

```
body {
background-color: white;
}
```

This is the full rule, consisting of the selector body and the declaration block { background-color: white; }.

\* Option B:

```
background-color: white;
```

This is just a declaration, not a complete rule.

```
background-color: white,
```

This is an incorrect declaration due to the comma, and not a complete rule.

\* Option D:

```
color: black
```

This is just a declaration, not a complete rule.

:

W3C CSS Syntax and Basic Data Types Module Level 3

MDN Web Docs - CSS Syntax

### NEW QUESTION # 130

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