

Lesson

Wednesday

Introduction to Programming

(/introduction-to-programming)

/ JavaScript and Web Browsers

(/introduction-to-programming/javascript-and-web-browsers)

/ More Branching and Error Handling

Text

Cheat sheet

Terminology

Logical operators:

- `&&` means **and**: `age >= 12 && height >= 60`
- `||` means **or**: `age >= 12 || height >= 48`
- `!` means not: `!age || !height`
- Empty strings, the number `0`, the number `NaN`, `undefined`, `null`, and `false` itself are **falsey**. If JavaScript sees any of these as a branching condition, it will treat them as false.
Everything else is truthy, including numbers and strings with values like `3` or `"hello world"`.

Completed Code

```
css/styles.css
```

```
.hidden {  
  display: none;  
}  
  
#error-message {  
  font-weight: 600;  
  color: red;  
}
```

amusement-park.html

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <link rel="stylesheet" href="css/styles.css" type="text/css">
    <script src="js/scripts.js"></script>
    <title>Amusement Park</title>
  </head>
  <body>
    <div>
      <h1>Fun 4 All</h1>

      <p>Welcome to the Fun 4 All amusement park!</p>
      <p>At Fun 4 All you need to be a certain age and height to ride on our rides.</p>
      <p>Enter your age and height in the form below and we'll show you what rides you can go on.</p>

      <form id="userInfo">
        <p id="error-message" class="hidden">Please enter an age and height in whole numbers.</p>
        <label for="age">Age</label>
        <input id="age" type="text">
        <label for="height">Height in inches</label>
        <input id="height" type="text">
        <button type="submit">Show me what I can ride!</button>
      </form>

      <div id="swings" class="hidden">
        <h1>You can ride the Swings.</h1>
        <p>To ride the Swings you need to be at least 6 years old.</p>
      </div>
      <div id="coaster" class="hidden">
        <h1>You can ride the Roller Coaster.</h1>
        <p>To ride the Roller Coaster you need to be either 12 years old or 48 or more inches tall.</p>
      </div>
      <div id="tower" class="hidden">
        <h1>You can ride the Tower of Doom.</h1>
      </div>
    </div>
  </body>
</html>
```

```
<p>To ride the Tower of Doom you need to be at least 12 years old and 60 or more inches tall.</p>
</div>
<div id="sorry" class="hidden">
  <h1>You are too young to ride! Sorry!</h1>
  <p>Come back when you are 6 years old.</p>
</div>
</div>
</body>
</html>
```

js/scripts.js

```
// User Interface Logic

function hideResultsAndError() {
    document.getElementById("error-message").setAttribute("class", "hidden");
    document.getElementById("swings").setAttribute("class", "hidden");
    document.getElementById("coaster").setAttribute("class", "hidden");
    document.getElementById("tower").setAttribute("class", "hidden");
    document.getElementById("sorry").setAttribute("class", "hidden");
}

window.onload = function() {
    hideResultsAndError();

    document.querySelector("form").onsubmit = function(event) {
        event.preventDefault();
        hideResultsAndError();
        const age = parseInt(document.querySelector("input#age").value);
        const height = parseInt(document.querySelector("input#height").value);

        if (age && height) {
            if (age >= 12 && height >= 60) {
                document.getElementById("swings").removeAttribute("class");
                document.getElementById("coaster").removeAttribute("class");
                document.getElementById("tower").removeAttribute("class");
            } else if (age >= 12 || height >= 48) {
                document.getElementById("swings").removeAttribute("class");
                document.getElementById("coaster").removeAttribute("class");
            } else if (age >= 6) {
```

```
        document.getElementById("swings").removeAttribute  
("class");  
    } else {  
        document.getElementById("sorry").removeAttribute("c  
lass");  
    }  
    } else {  
        document.getElementById("error-message").removeAttrib  
ute("class");  
    }  
};  
};
```

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[Next \(/introduction-to-programming/javascript-and-web-browsers/practice-more-branching\)](#)

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