* **Mouse Gradient**

Write a JS program that **detects** and displays how far along a gradient the user has **moved** their **mouse** on a webpage. Use the provided HTML and stylesheet (CSS) to test locally. The resulting value should be **rounded down** and displayed as a **percentage** inside the **<div>** with ID "**result**".

**Input/Output**

There will be no input/output, your program should instead **modify** the DOM of the given HTML document.

|  |
| --- |
| **Sample HTML** |
| **<html>**  **<head>**  **<title>Mouse in Gradient</title>**  **<link rel="stylesheet" href="gradient.css" />**  **<script src="gradient.js"></script>**  **</head>**  **<body onload="attachGradientEvents()">**  **<div id="gradient-box">**  **<div id="gradient">Click me!</div>**  **</div>**  **<div id="result"></div>**  **</body>**  **</html>** |

|  |
| --- |
| **gradient.css** |
| **#gradient-box {**  **width: 300px;**  **border: 2px solid lightgrey;**  **}**  **#gradient-box:hover {**  **border: 2px solid black;**  **}**  **#gradient {**  **height: 30px;**  **color: white;**  **text-shadow: 1px 1px 10px black;**  **text-align: center;**  **line-height: 30px;**  **background: linear-gradient(to right, black, white);**  **cursor: crosshair;**  **}** |

**Examples**

