```html
<!DOCTYPE html>

<html lang="en">
  <head>
    <title>Displaying Keypresses</title>
    <script type="text/javascript">
    function displayKey(e) {
        // which key was pressed?
        if (e.keyCode) {
            var keycode=e.keyCode;
        }  else {
            var keycode=e.which;
        }
        character=String.fromCharCode(keycode);
        console.log(character);

        if(character == "r"){
            document.body.style.backgroundColor = "red";
            document.body.style.color = "white";
        }
        else if(character == "g"){
            document.body.style.backgroundColor = "green";
            document.body.style.color = "white";
        }
        else if(character == "b"){
            document.body.style.backgroundColor = "blue";
            document.body.style.color = "white";
        }
        else if(character == "a"){
            character = character.toUpperCase();
        }
        else if(character == "e"){
            character = character.toUpperCase();
        }
        else if(character == "i"){
            character = character.toUpperCase();
        }
        else if(character == "o"){
            character = character.toUpperCase();
        }
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```html
        else if(character == "u"){
            character = character.toUpperCase();
        }
        // I'm excluding Y as a vowel.

        // This will check for uppercase RGB
        if(character == "R"){
            document.body.style.backgroundColor = "red";
            document.body.style.color = "white";
        }
        else if(character == "G"){
            document.body.style.backgroundColor = "green";
            document.body.style.color = "white";
        }
        else if(character == "B"){
            document.body.style.backgroundColor = "blue";
            document.body.style.color = "white";
        }
        // find the object for the destination paragraph
        var keysParagraph = document.getElementById('keys');

        // add the character to the paragraph
        keysParagraph.innerHTML += character;
    }
 </script>
</head>
<body onkeypress="displayKey(event)">
  <h1>Displaying Typed Characters</h1>
  <p>This document includes a simple script that displays
  the keys you type as a new paragraph below. Type a few keys
  to try it. </p>
  <div id="keys"></div>
</body>
</html>
```