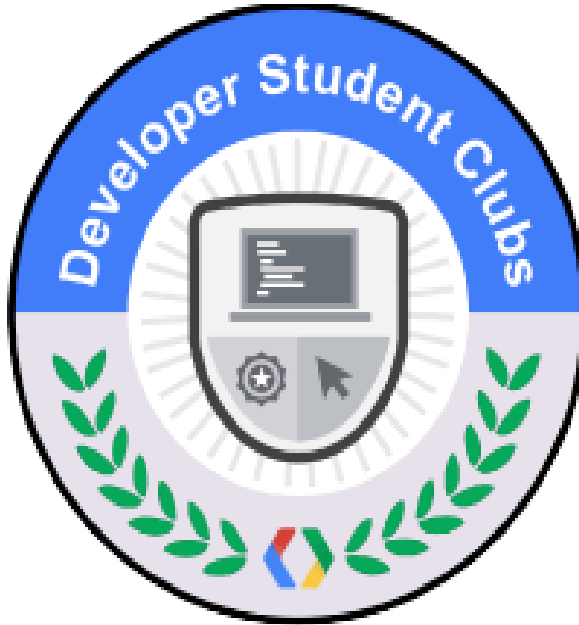


WEB DEV 101



.HTML

HYPER TEXT MARKUP LANGUAGE

.HTML

HYPER TEXT MARKUP LANGUAGE

I AM NOT A PROGRAMMING LANGUAGE!

<html>

I SEE TAGS EVERYWHERE!

</html>

TAGS

FORMAT

OPEN-CLOSE

```
<tag> ... </tag>
```

```
<tag attribute="value"> ... </tag>
```

SELF-CLOSE

```
<tag/>
```

```
<tag attribute="value"/>
```

TAGS FORMAT

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
  </head>
```

```
  <body>
```

```
  </body>
```

```
</html>
```



```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

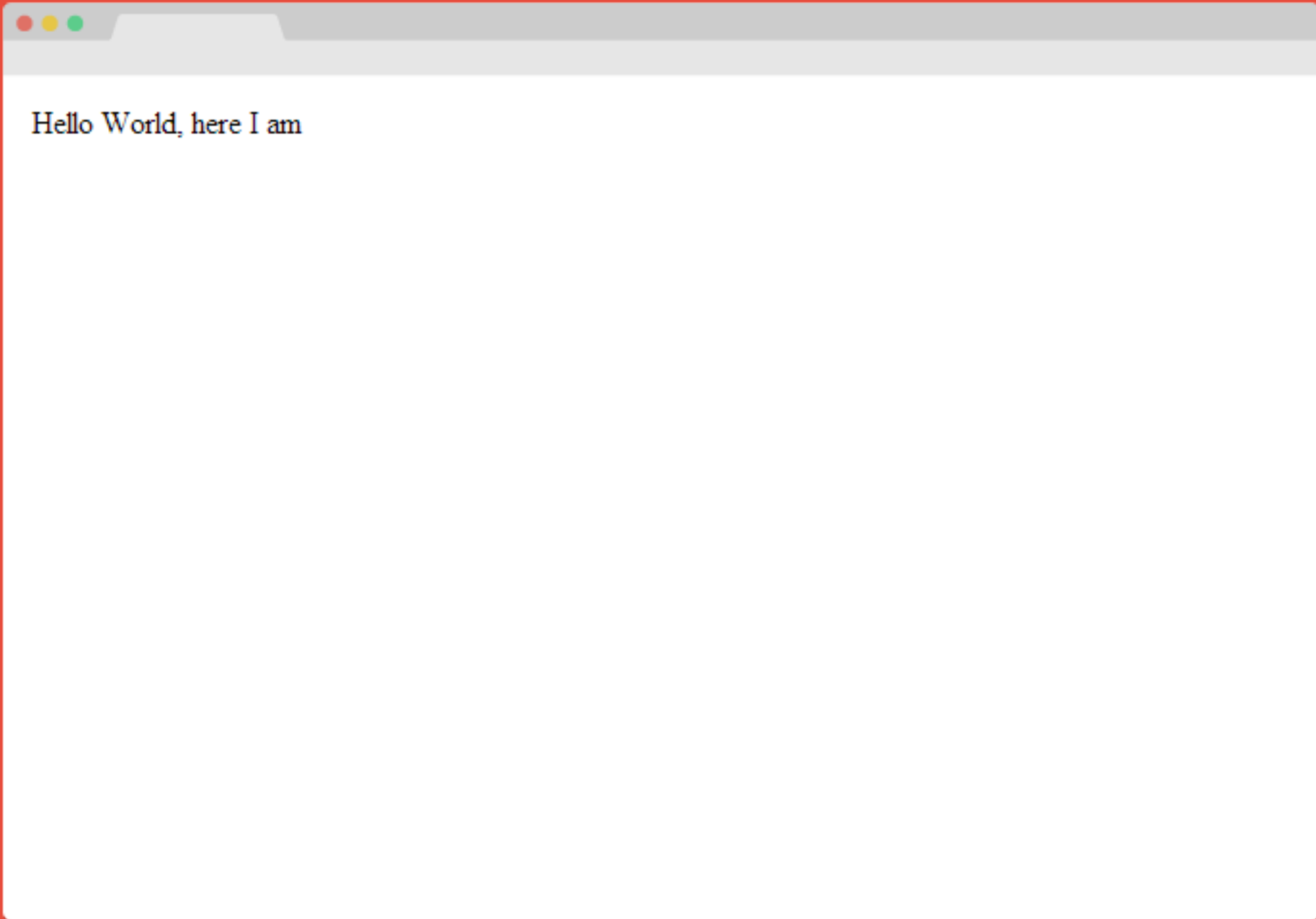
```
  </head>
```

```
  <body>
```

```
    <p>Hello World, here I am</p>
```

```
  </body>
```

```
</html>
```


A screenshot of a web browser window. The window has a light gray title bar at the top with three colored window control buttons (red, yellow, green) on the left. Below the title bar is a single tab. The main content area of the browser is white and contains the text "Hello World, here I am" in a black, monospaced font.

Hello World, here I am

HEAD TAGS

SET PAGE'S TITLE

```
<title> ... </title>
```

METADATA OF PAGE

```
<meta ... />
```

LINK EXTERNAL REFERENCE

```
<link ... />
```

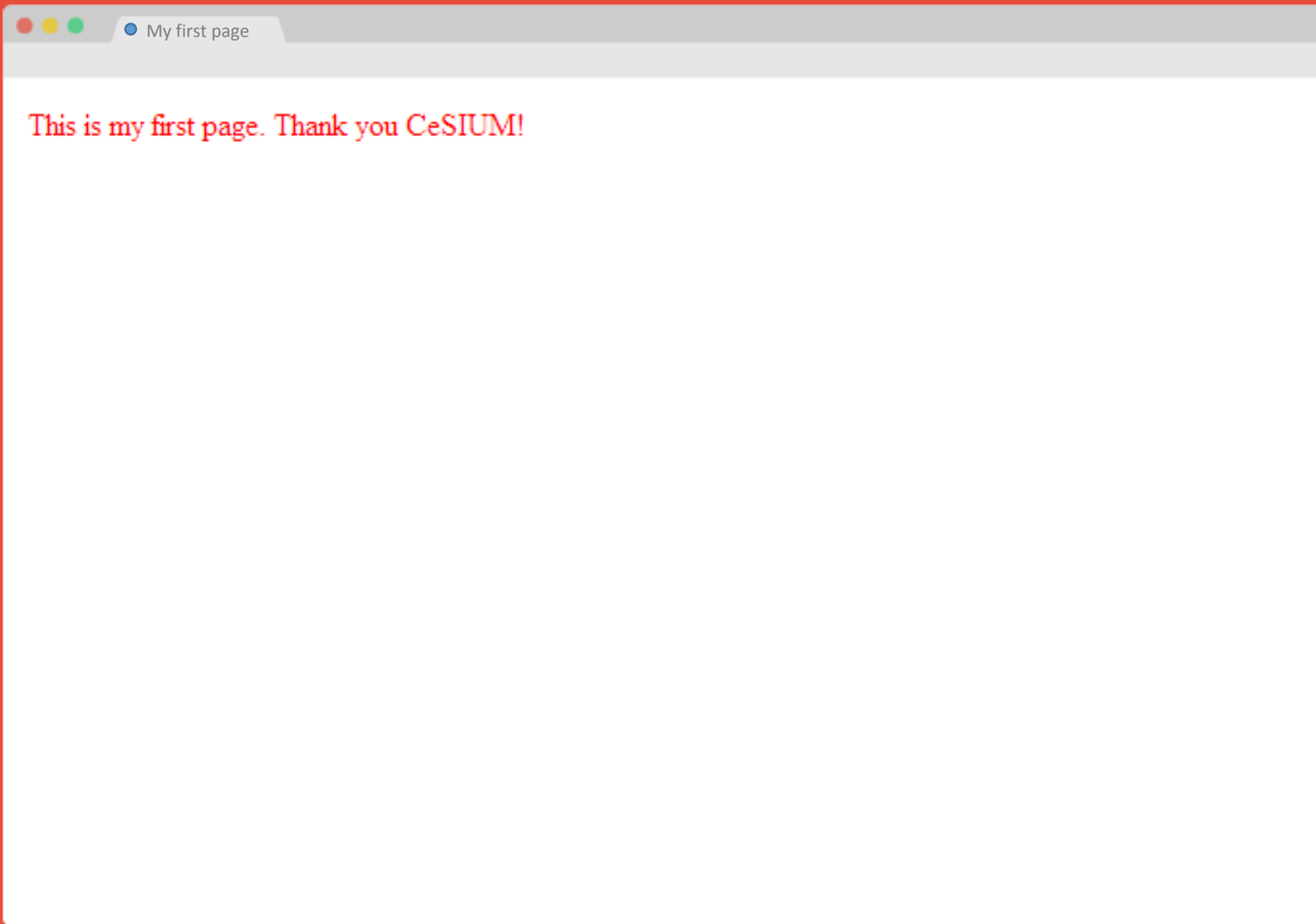
DEFINE STYLE OF HTML DOCUMENT

```
<style> ... </style>
```

```
<!DOCTYPE html>

<html>
  <head>
    <title>My first page</title>
    <meta name="author" content="Francisco Neves"/>
    <link rel="shortcut icon" href="favicon.ico"/>
    <style>
      p { color: red; }
    </style>
  </head>

  <body>
    <p>This is my first page. Thank you CeSIUM!</p>
  </body>
</html>
```



ESSENTIAL TAGS

HEADING TAGS

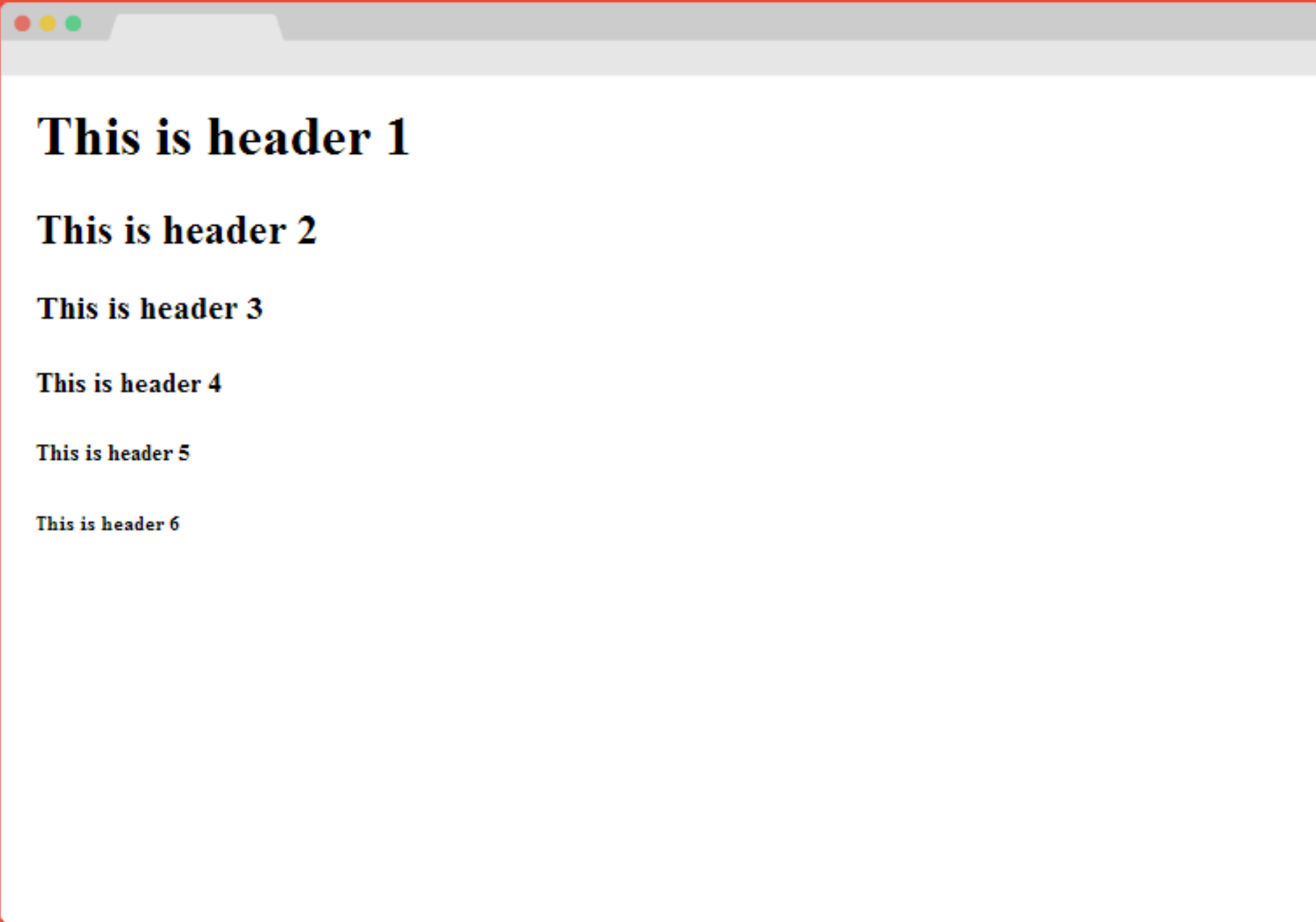
```
<h1> ... </h1>
```

h1, h2, h3, h4, h5, h6

```
<!DOCTYPE html>

<html>
  <head>
    ...
  </head>

  <body>
    <h1>This is header 1</h1>
      <h2>This is header 2</h2>
      <h3>This is header 3</h3>
      <h4>This is header 4</h4>
      <h5>This is header 5</h5>
      <h6>This is header 6</h6>
    </body>
</html>
```



This is header 1

This is header 2

This is header 3

This is header 4

This is header 5

This is header 6

PARAGRAPHS

```
<p> ... </p>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

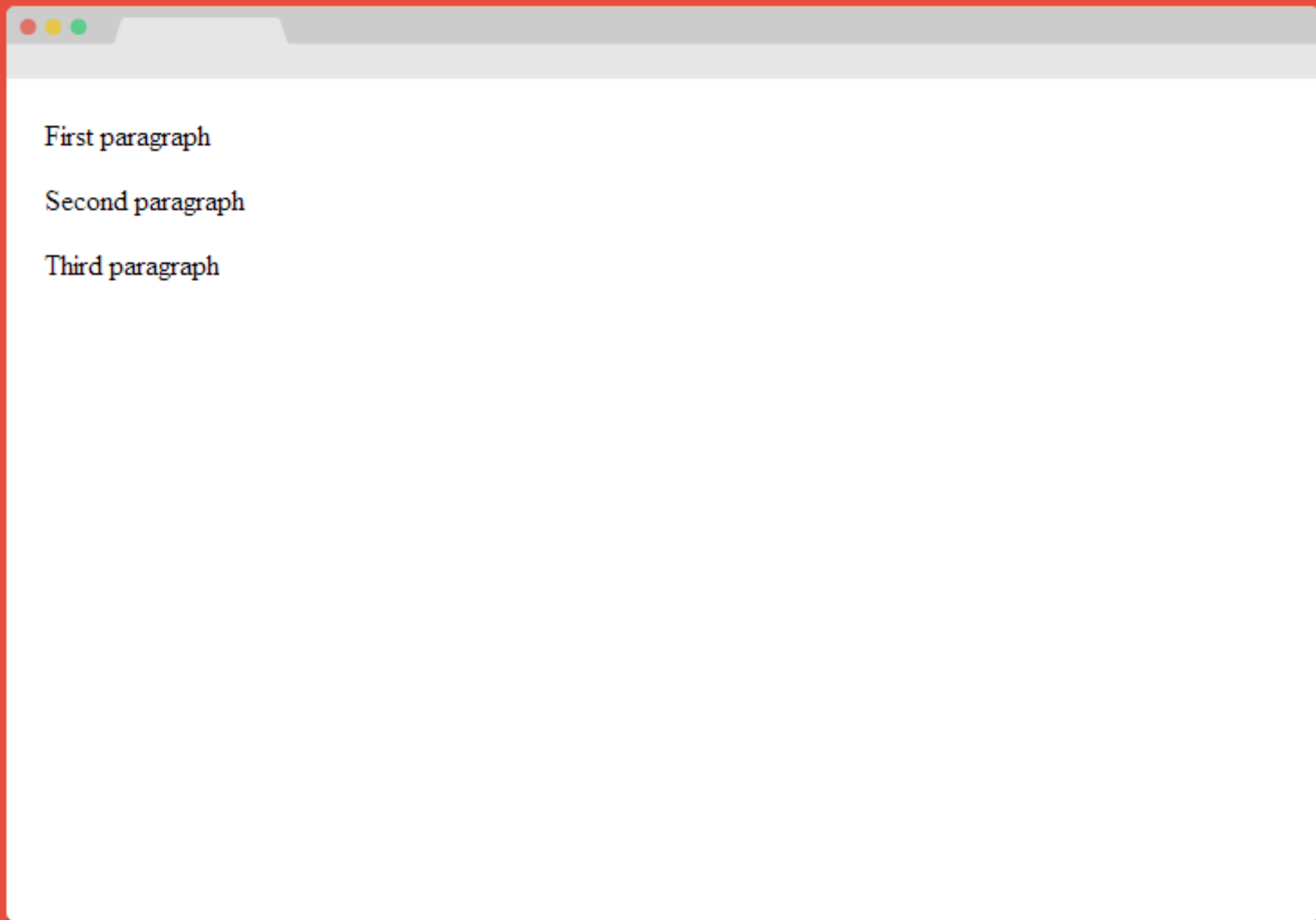
```
    <p>First paragraph</p>
```

```
    <p>Second paragraph</p>
```

```
    <p>Third paragraph</p>
```

```
  </body>
```

```
</html>
```



HYPERLINKS

```
<a href="...">... </a>
```



```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

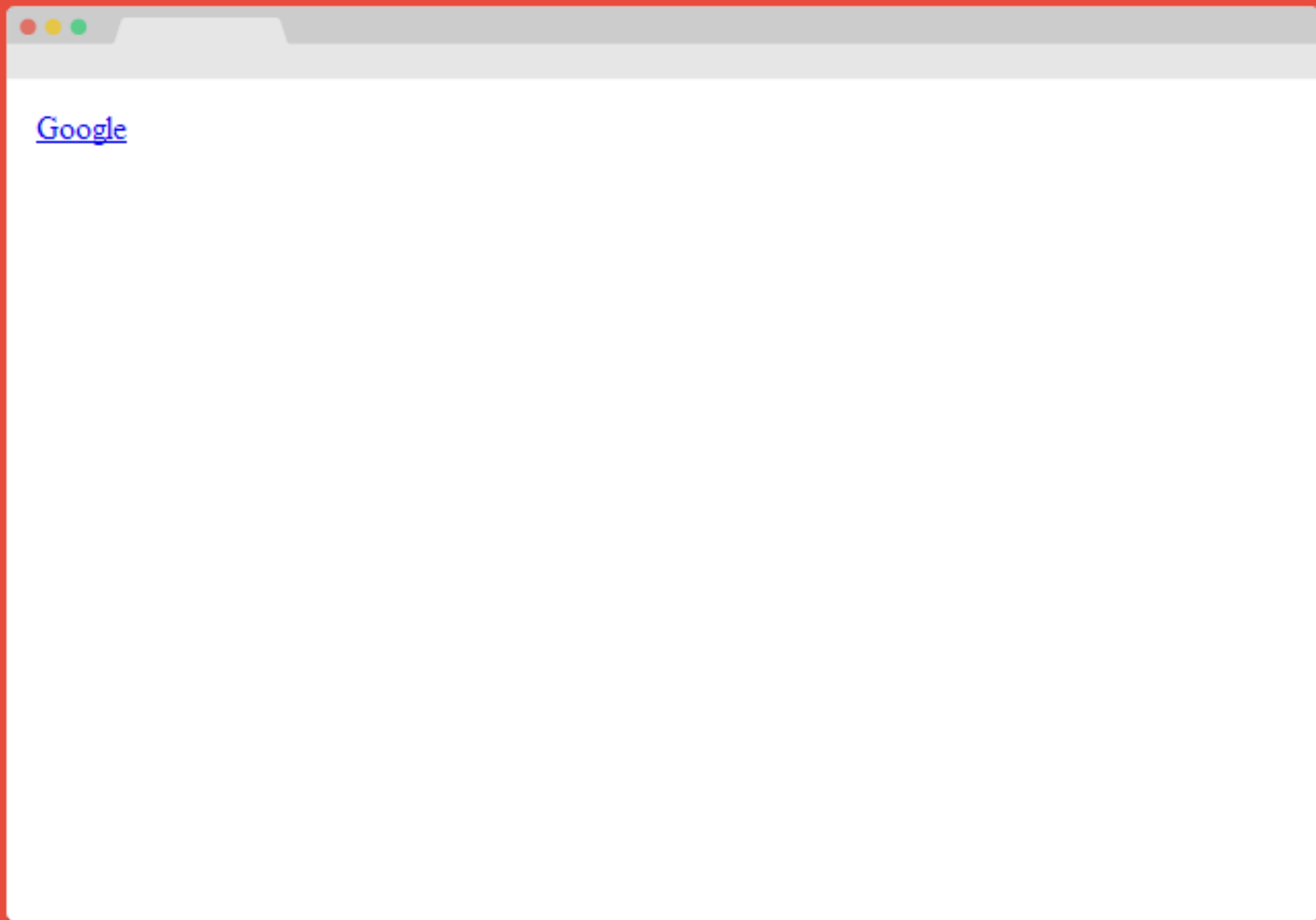
```
  </head>
```

```
  <body>
```

```
    <a href="http://google.com">Google</a>
```

```
  </body>
```

```
</html>
```



IMAGES

```

```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

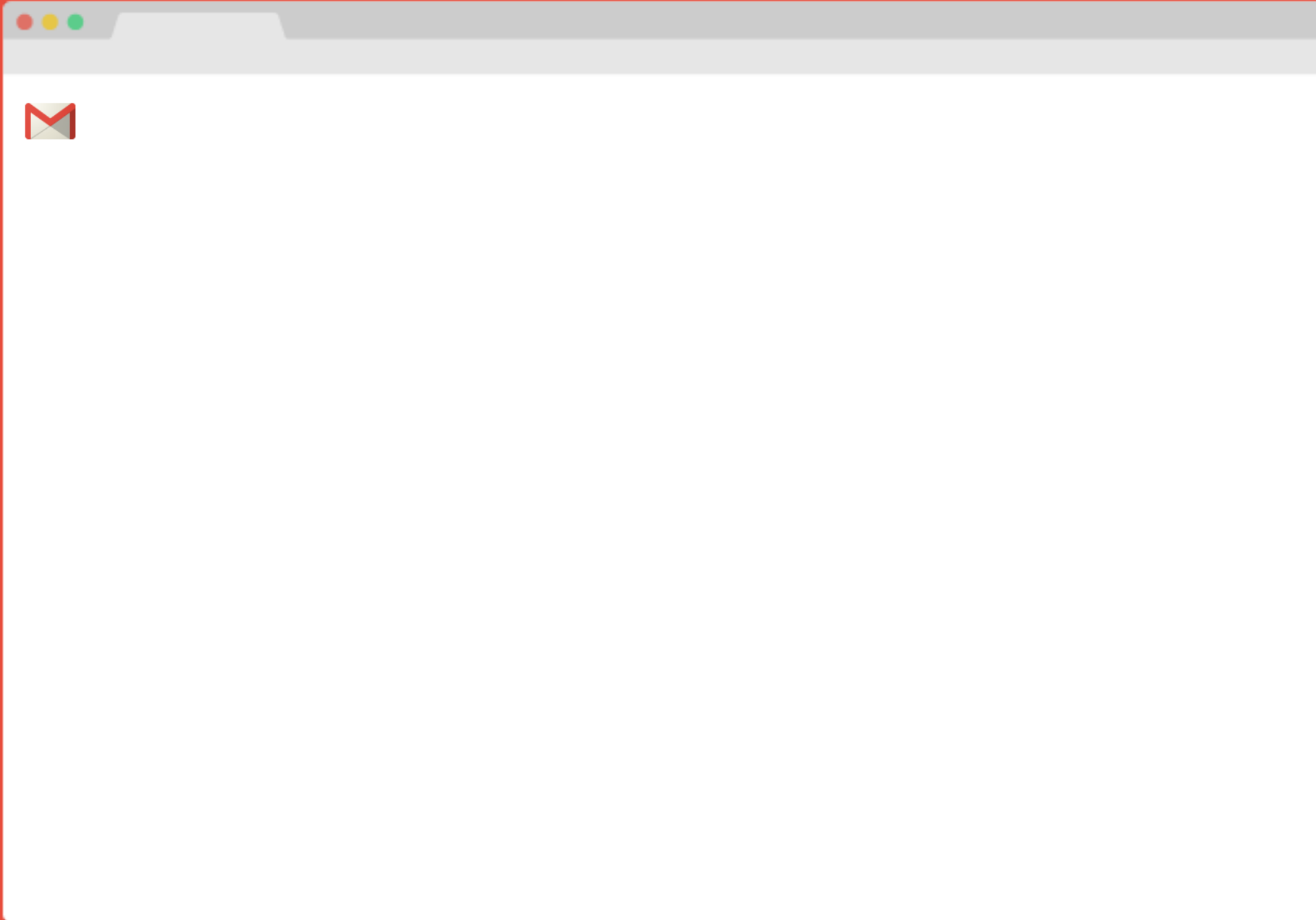
```
  </head>
```

```
  <body>
```

```
    
```

```
  </body>
```

```
</html>
```



LAYOUT TAGS

TABLES

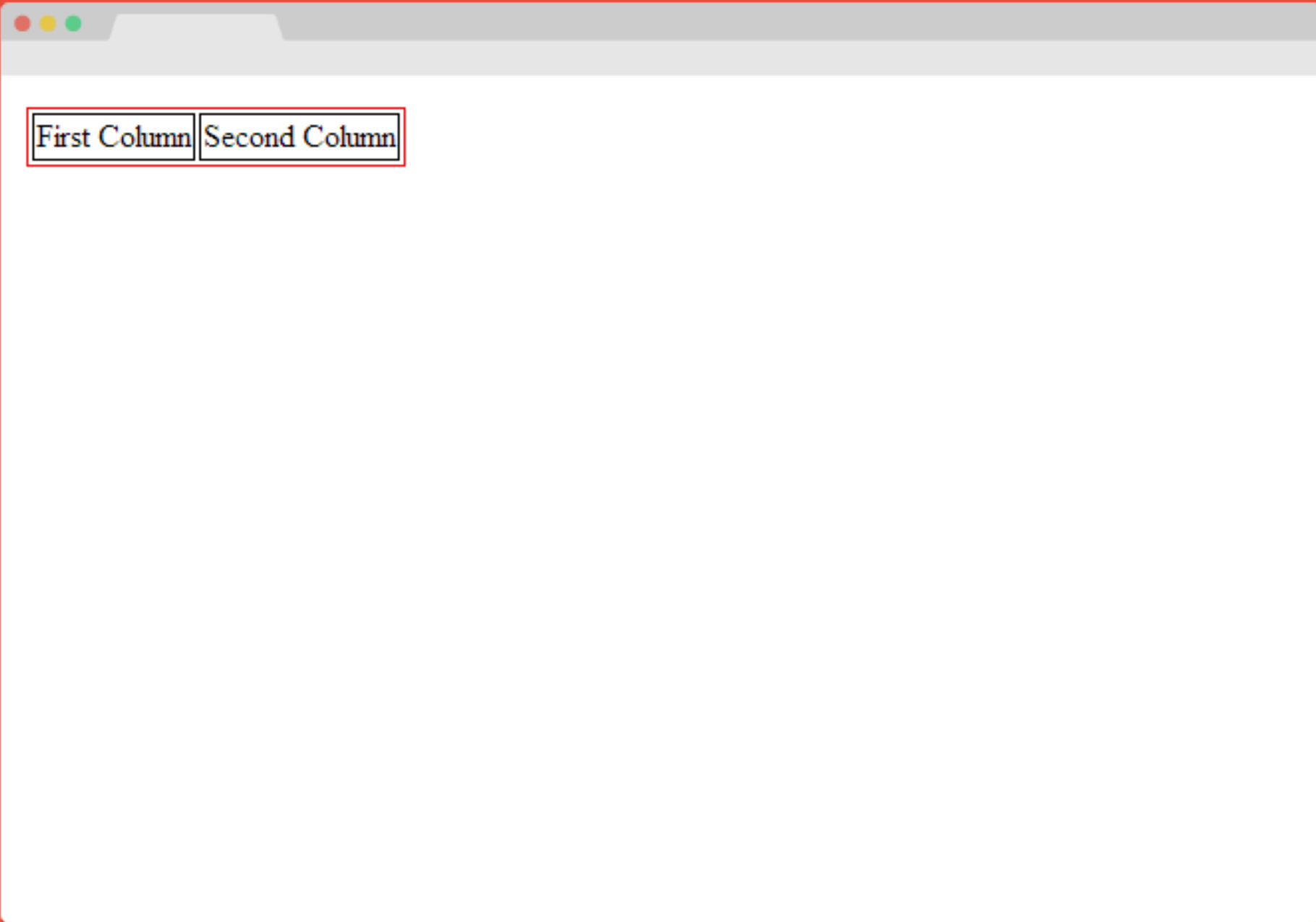
```
<table> ... </table>
```

TABLES REQUIRE ADDITIONAL TAGS

```
<!DOCTYPE html>

<html>
  <head>
    ...
  </head>

  <body>
    <table>
      <tr>
        <td>First Column</td>
        <td>Second Column</td>
      </tr>
    </table>
  </body>
</html>
```

The image shows a web browser window with a single tab. The browser's address bar is empty. The main content area contains a table with two columns. The first column is labeled 'First Column' and the second column is labeled 'Second Column'. The table is rendered with a light gray border and the text is in a serif font.

First Column	Second Column
--------------	---------------

LISTS

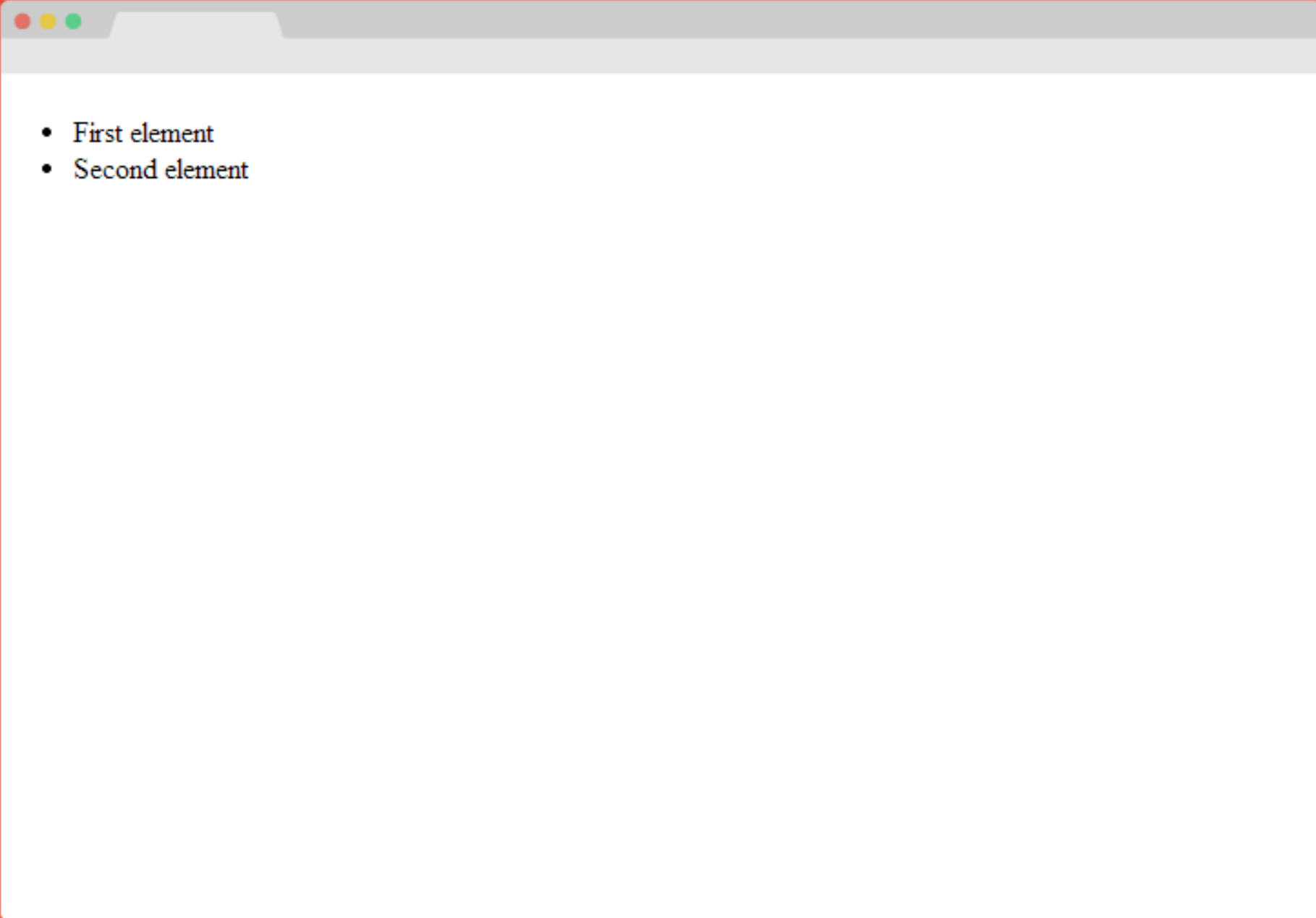
```
<ul> ... </ul>
```

LISTS REQUIRE ADDITIONAL TAGS

```
<!DOCTYPE html>

<html>
  <head>
    ...
  </head>

  <body>
    <ul>
      <li>First element</li>
      <li>Second element</li>
    </ul>
  </body>
</html>
```

- 
- A window with a red title bar and a tab. The tab contains a bulleted list with two items: 'First element' and 'Second element'.
- First element
 - Second element

BLOCKS

```
<div>... </div>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

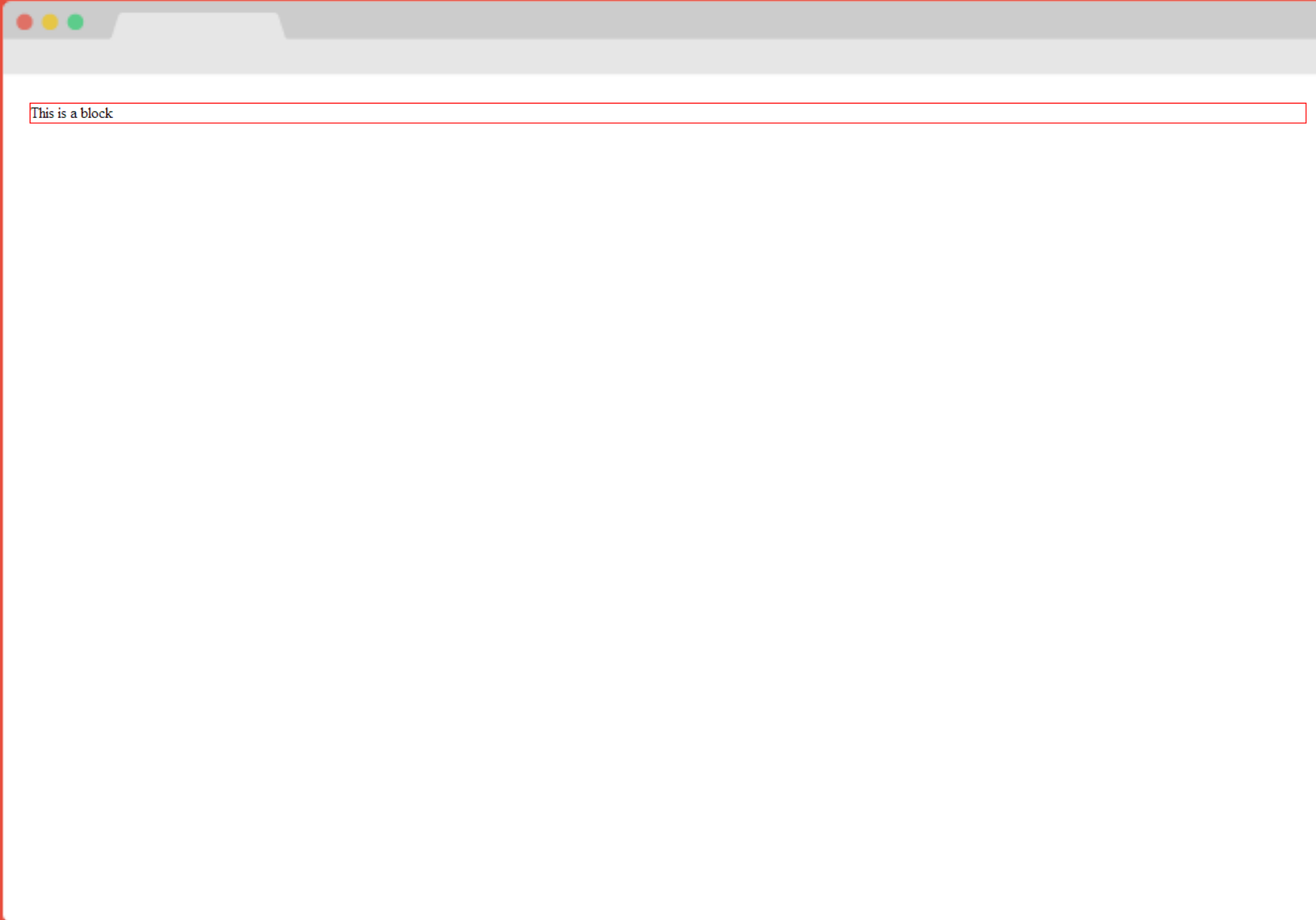
```
  </head>
```

```
  <body>
```

```
    <div>This is a block</div>
```

```
  </body>
```

```
</html>
```



FORM TAGS

FORM CONTAINER

```
<form ... > ... </form>
```

FORMS REQUIRE ATTRIBUTES

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <form action="page.php" method="post">
```

```
      ...
```

```
    </form>
```

```
  </body>
```

```
</html>
```



Forms without inputs mean nothing!
Let's talk about inputs.

TEXTFIELD INPUT

```
<input type="text"/>
```

PASSWORD INPUT

```
<input type="password"/>
```

CHECKBOX INPUT

```
<input type="checkbox"/>
```

RADIO INPUT

```
<input type="radio"/>
```

SUBMIT INPUT

```
<input type="submit"/>
```



```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <form action="page.php" method="post">
```

```
      <input type="text" name="my_text"/>
```

```
      <input type="password" name="my_password"/>
```

```
      <input type="checkbox" name="my_checkbox"/>
```

```
      <input type="radio" name="my_radio"/>
```

```
      <input type="submit" name="my_submit"/>
```

```
    </form>
```

```
  </body>
```

```
</html>
```

ALL INPUTS MUST HAVE NAME ATTRIBUTE

This is a textfield

.....

☐

☐

Submeter

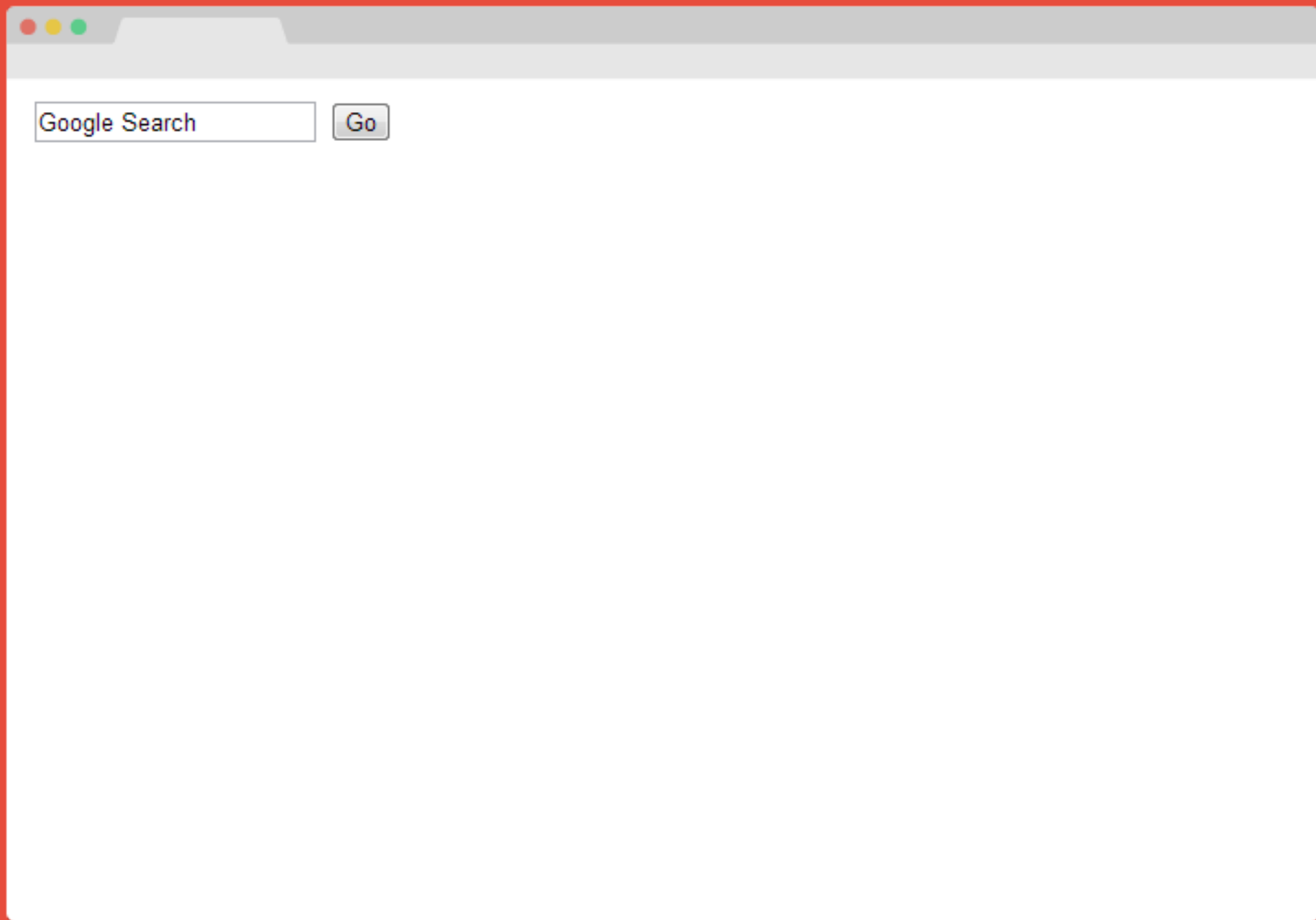
ALL THESE INPUTS HAVE VALUES

```
<input type="..." value="..."/>
```

```
<!DOCTYPE html>

<html>
  <head>
    ...
  </head>

  <body>
    <form action="page.php" method="post">
      <input type="text" ... value="Google Search"/>
      <input type="submit" ... value="Go"/>
    </form>
  </body>
</html>
```



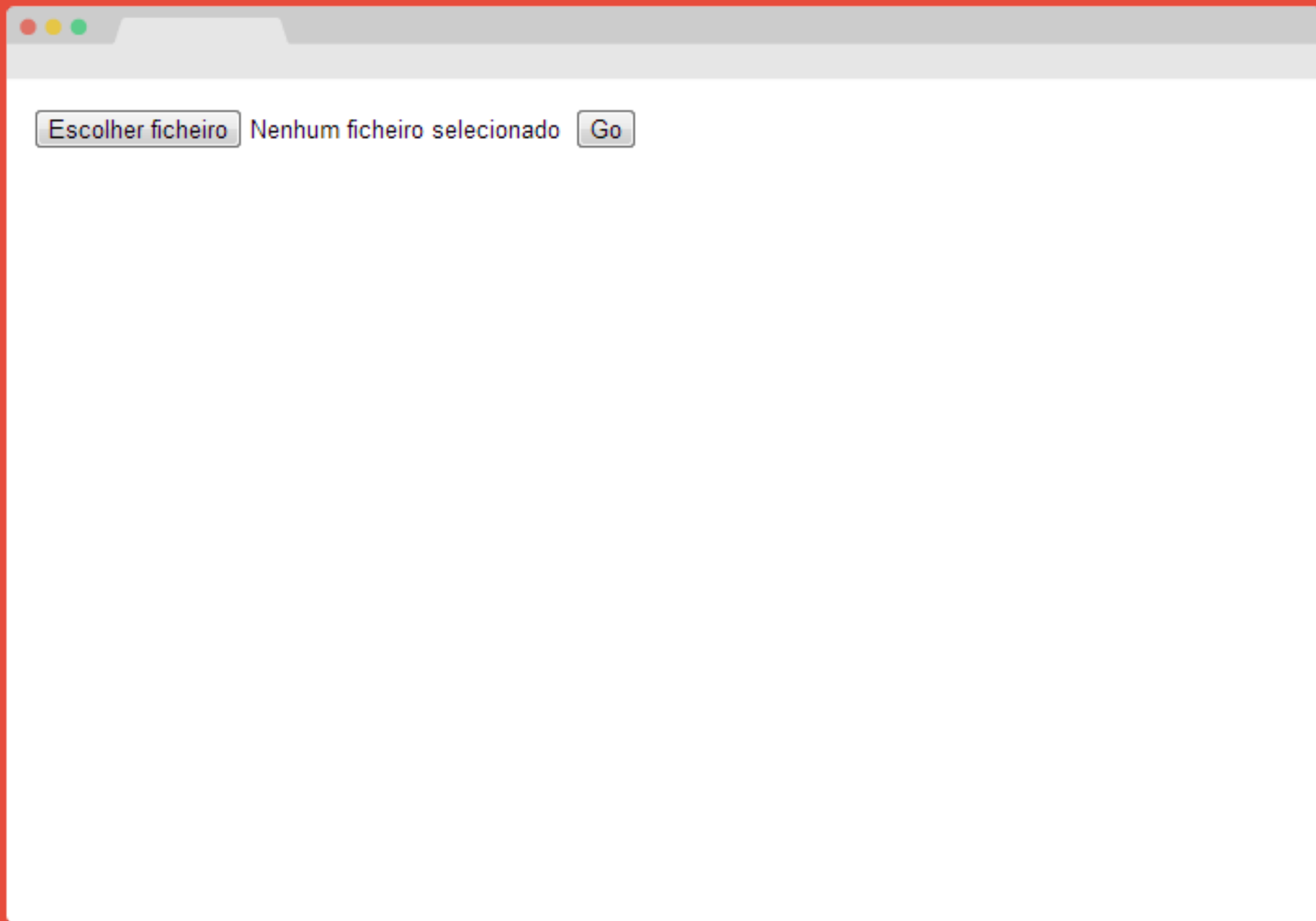
FILE INPUT

```
<input type="file"/>
```

```
<!DOCTYPE html>

<html>
  <head>
    ...
  </head>

  <body>
    <form action="page.php" method="post">
      <input type="file" name="my_file"/>
      <input type="submit" name="my_submit" value="Go"/>
    </form>
  </body>
</html>
```



DROPDOWN LIST

```
<select ... > ... </select>
```

SELECT TAG REQUIRES OPTIONS

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <form action="page.php" method="post">
```

```
      <select name="my_select">
```

```
        <option value="1">Option 1</option>
```

```
        <option value="2">Option 2</option>
```

```
        <option value="3">Option 3</option>
```

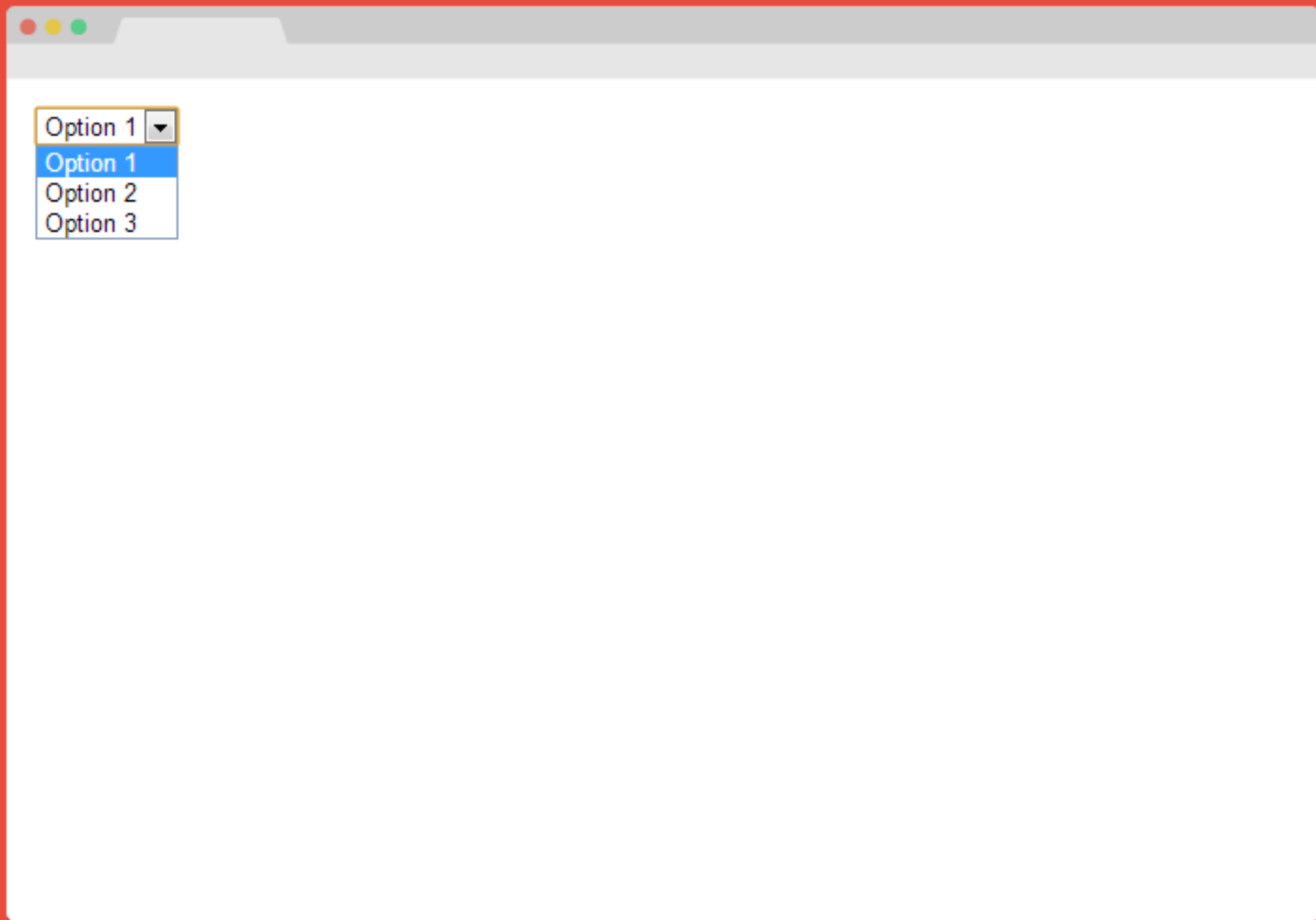
```
      </select>
```

```
    </form>
```

```
  </body>
```

```
</html>
```

SELECT MUST HAVE NAME ATTRIBUTE



INCLUDE SCRIPTS

```
<script> ... </script>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div>This is a block</div>
```

```
    <script>
```

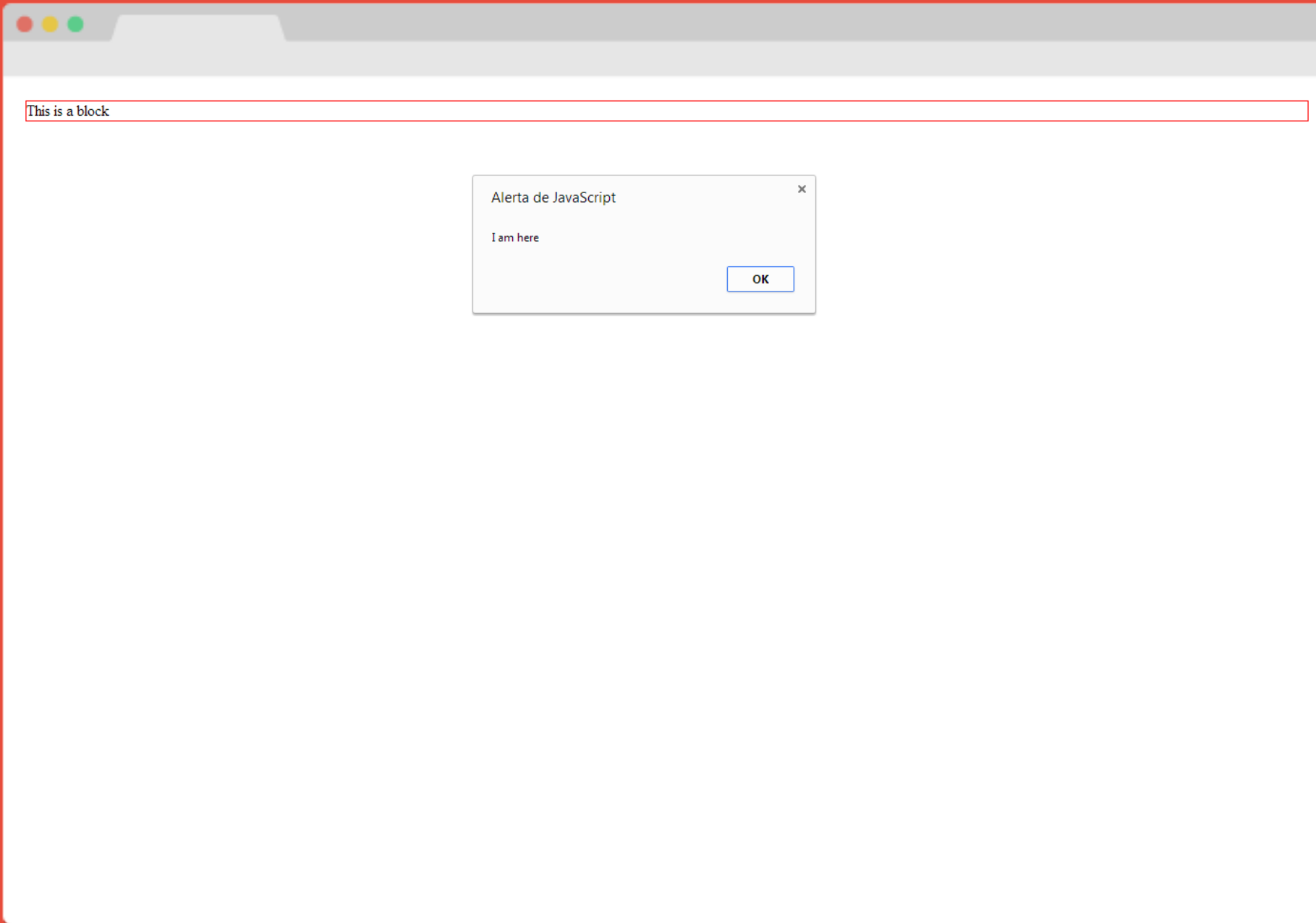
```
      alert("I am here");
```

```
    </script>
```

```
  </body>
```

```
</html>
```

USING JAVASCRIPT



HTML ENTITIES

<

>

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

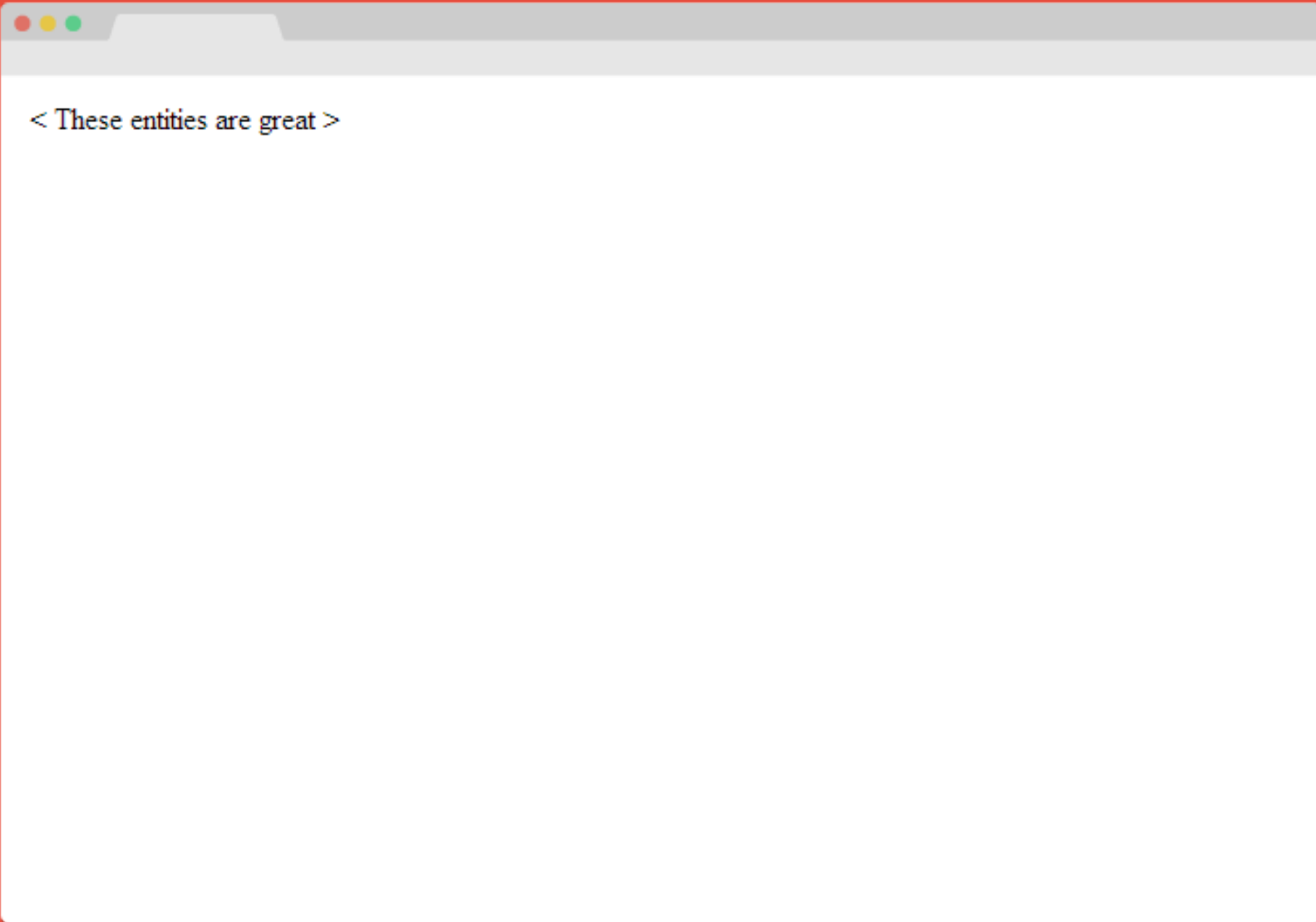
```
  </head>
```

```
  <body>
```

```
    &lt; These entities are great &gt;
```

```
  </body>
```

```
</html>
```


A window with a light gray title bar and a single tab. The window contains a single line of text in a monospaced font.

< These entities are great >

HTML COMMENTS

```
<!-- comment -->
```

HTML COMMENTS DON'T LIKE TO BE NESTED

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div>This is a block</div> <!-- My block -->
```

```
  </body>
```

```
</html>
```

ID ATTRIBUTE

```
<element id="..."> ...
```

DON'T USE THE SAME ID TWICE

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div id="main-content"></div>
```

```
    <div id="main-content"></div> <!-- Don't do it! -->
```

```
  </body>
```

```
</html>
```

CLASS ATTRIBUTE

```
<element class="..."> ...
```

YOU CAN ATTRIBUTE THE SAME CLASS TWICE

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header"></div>
```

```
    <div class="header"></div> <!-- You can do it! -->
```

```
  </body>
```

```
</html>
```

.css

CASCADING STYLESHEETS

.css

ONLY USES STYLES

IMPORTING

LINK TAG ON HTML

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <link rel="stylesheet" href="css/main.css"/>
```

```
  </head>
```

```
  <body>
```

```
    ...
```

```
  </body>
```

```
</html>
```

```
selector { attribute:  
  value; ... }
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div>This is a block</div>
```

```
  </body>
```

```
</html>
```

ELEMENT SELECTOR

```
div { ... }
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div id="main-content"></div>
```

```
  </body>
```

```
</html>
```

#ID SELECTOR

```
#main-content { ... }
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header"></div>
```

```
    <div class="header"></div>
```

```
  </body>
```

```
</html>
```

.CLASS SELECTOR

```
.header { ... }
```

BACKGROUND

```
background-color: #a5a5a5;
```



```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header">Header</div>
```

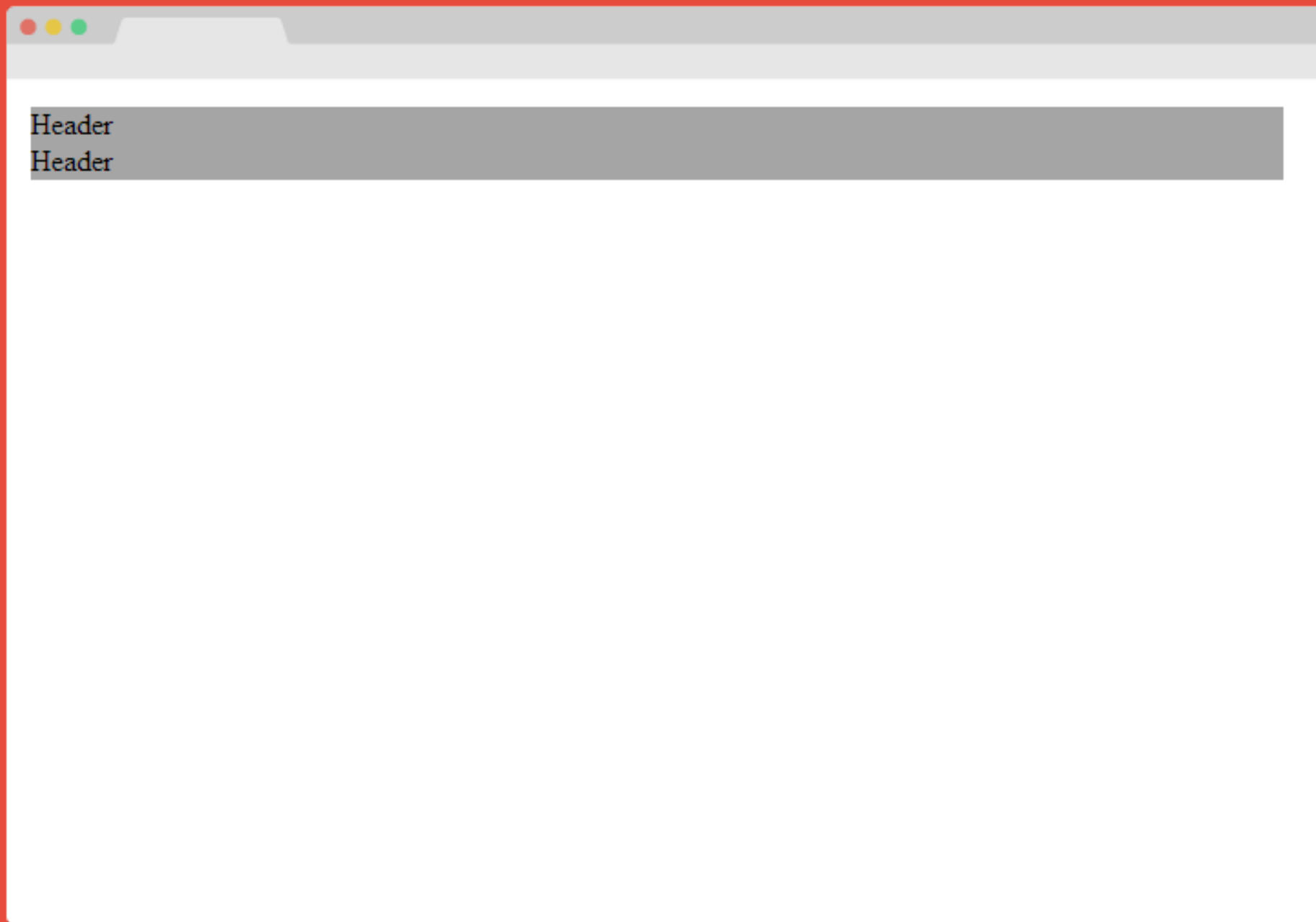
```
    <div class="header">Header</div>
```

```
  </body>
```

```
</html>
```

.CSS FILE

```
.header { background-color:  
#a5a5a5; }
```



TEXT

```
text-transform: uppercase;
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header">Header</div>
```

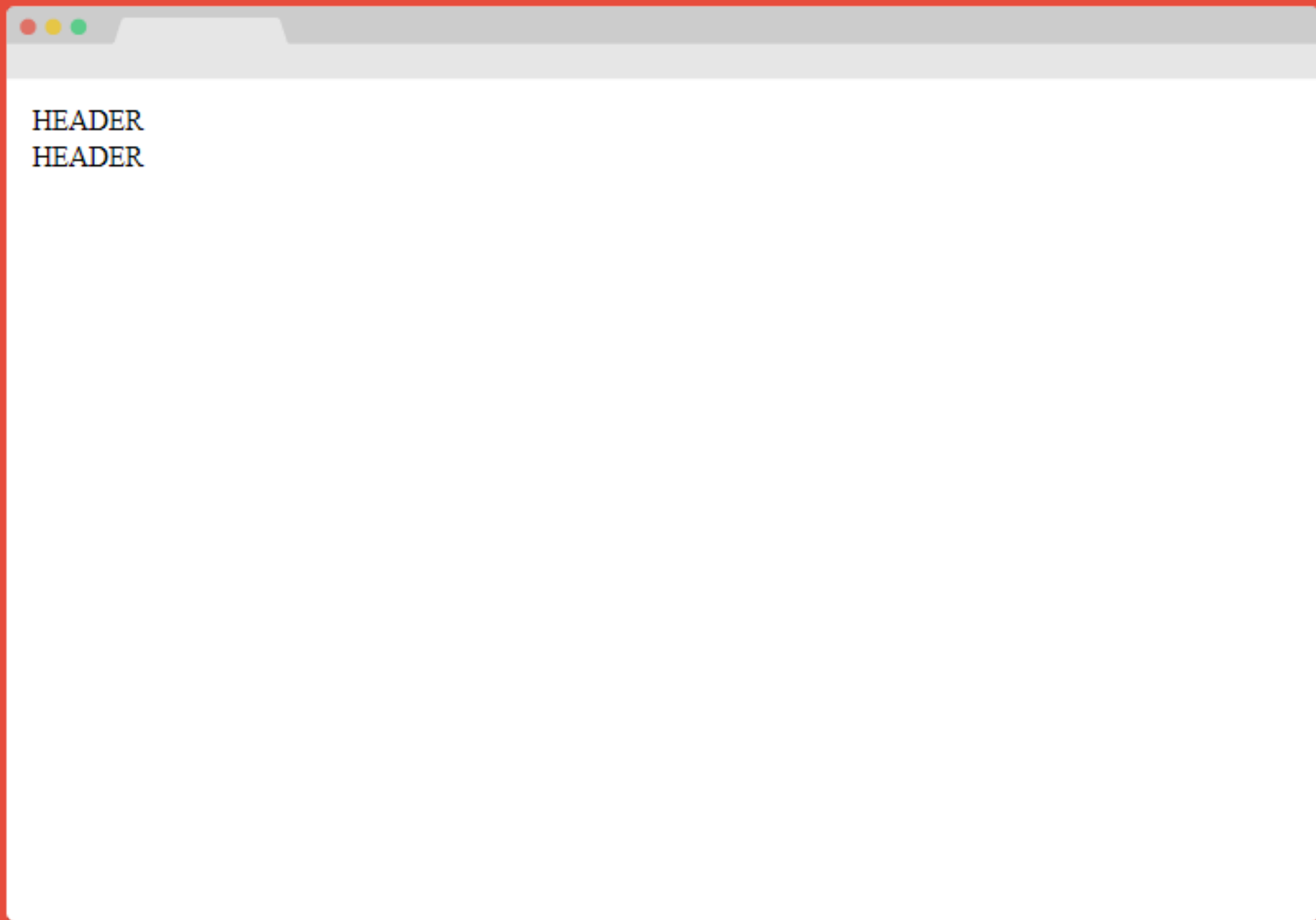
```
    <div class="header">Header</div>
```

```
  </body>
```

```
</html>
```

.CSS FILE

```
.header { text-transform:  
uppercase; }
```



FONT

```
font-size: 40px;
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header">Header</div>
```

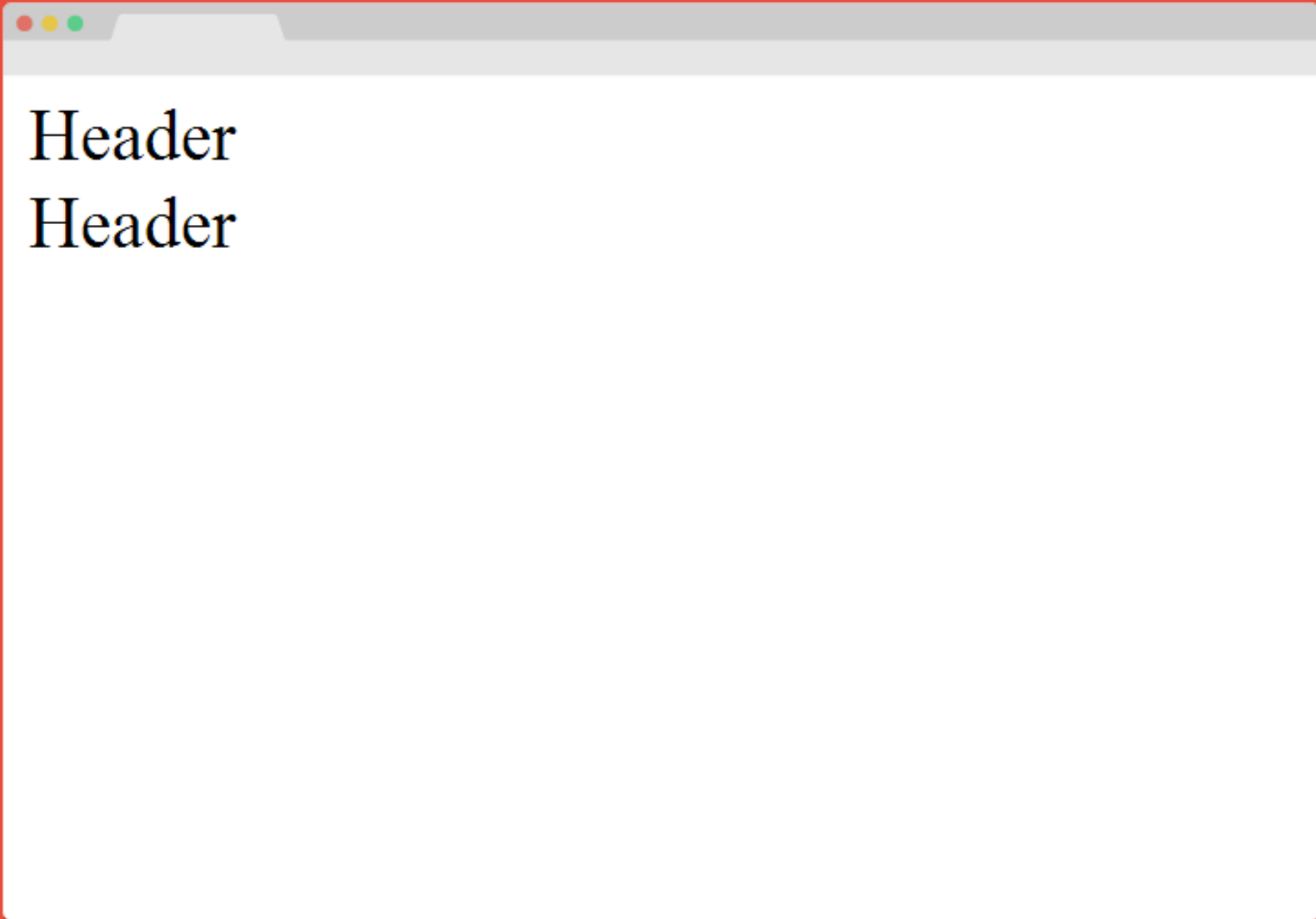
```
    <div class="header">Header</div>
```

```
  </body>
```

```
</html>
```

.CSS FILE

```
.header { font-size: 40px; }
```

A browser window with a single tab. The tab has a light gray background and three colored dots (red, yellow, green) on the left. The browser's address bar is empty. The main content area is white and contains the word "Header" in a black serif font.

Header

Header

BORDER

```
border: 1px solid #000000;
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header">Header</div>
```

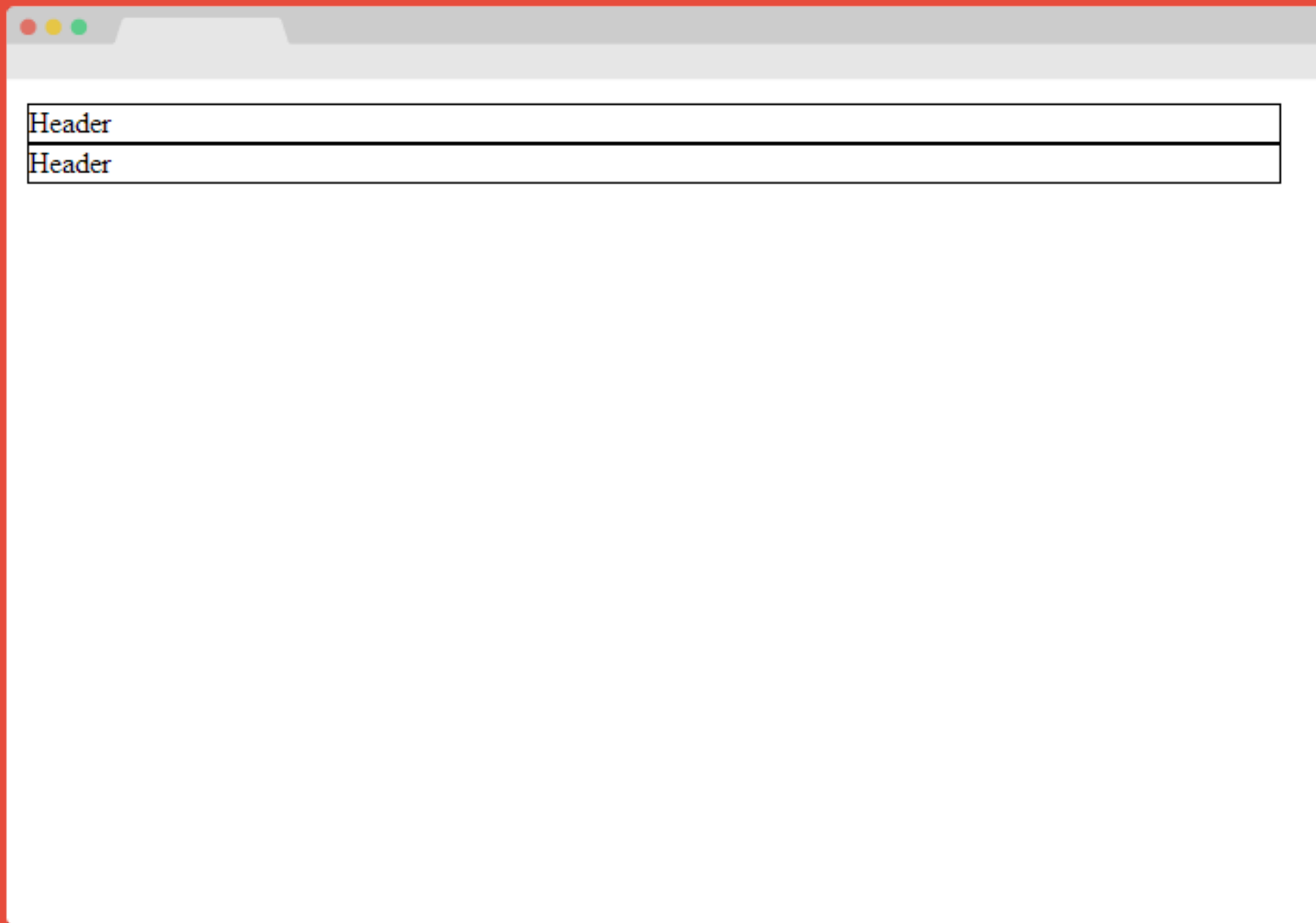
```
    <div class="header">Header</div>
```

```
  </body>
```

```
</html>
```

.CSS FILE

```
.header { border: 1px solid  
#000000 }
```



TEXT COLOR

```
color: #00a244;
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header">Header</div>
```

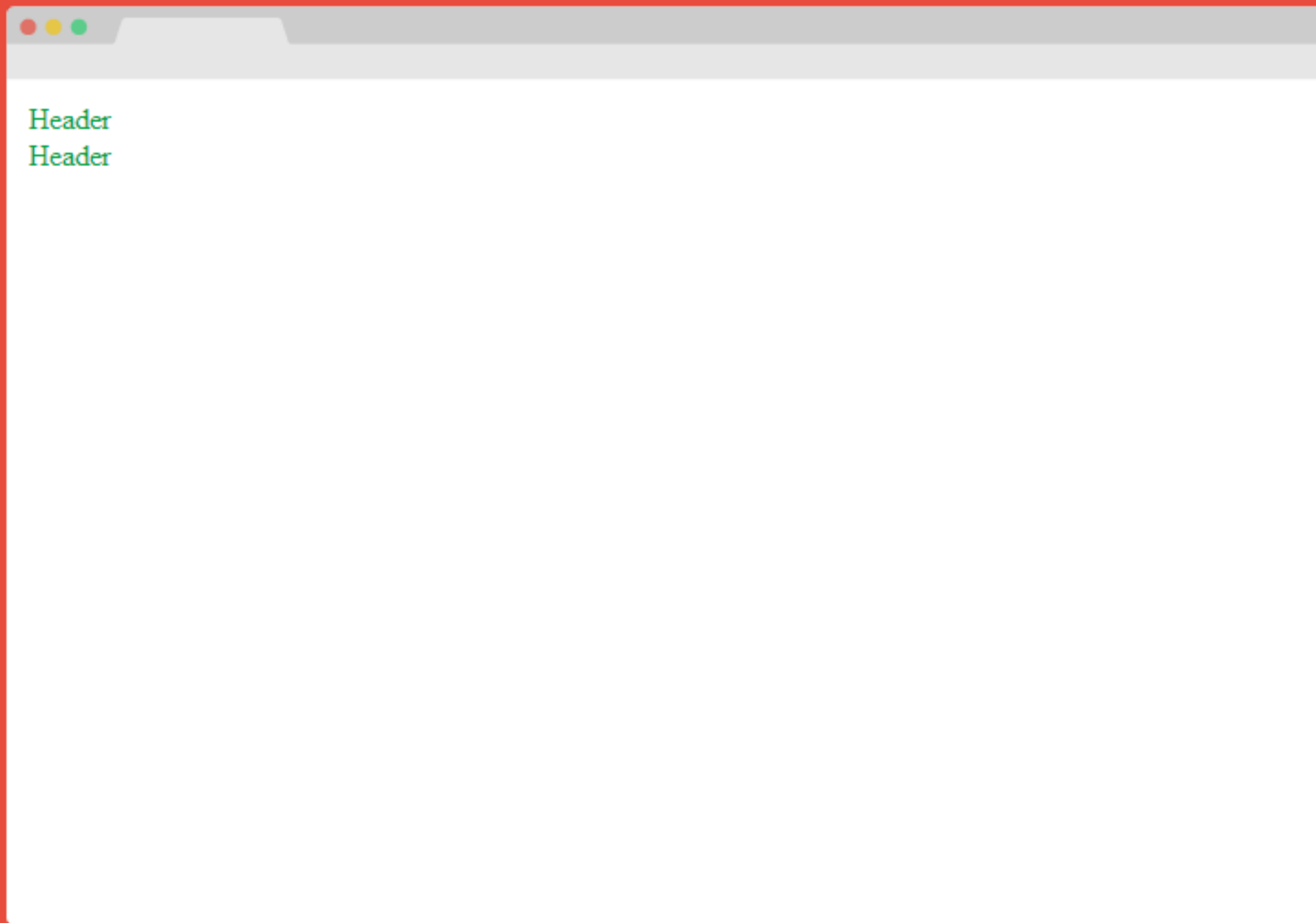
```
    <div class="header">Header</div>
```

```
  </body>
```

```
</html>
```

.CSS FILE

```
.header { color: #00a244 }
```



MARGIN

```
margin: 25px;
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header">Header</div>
```

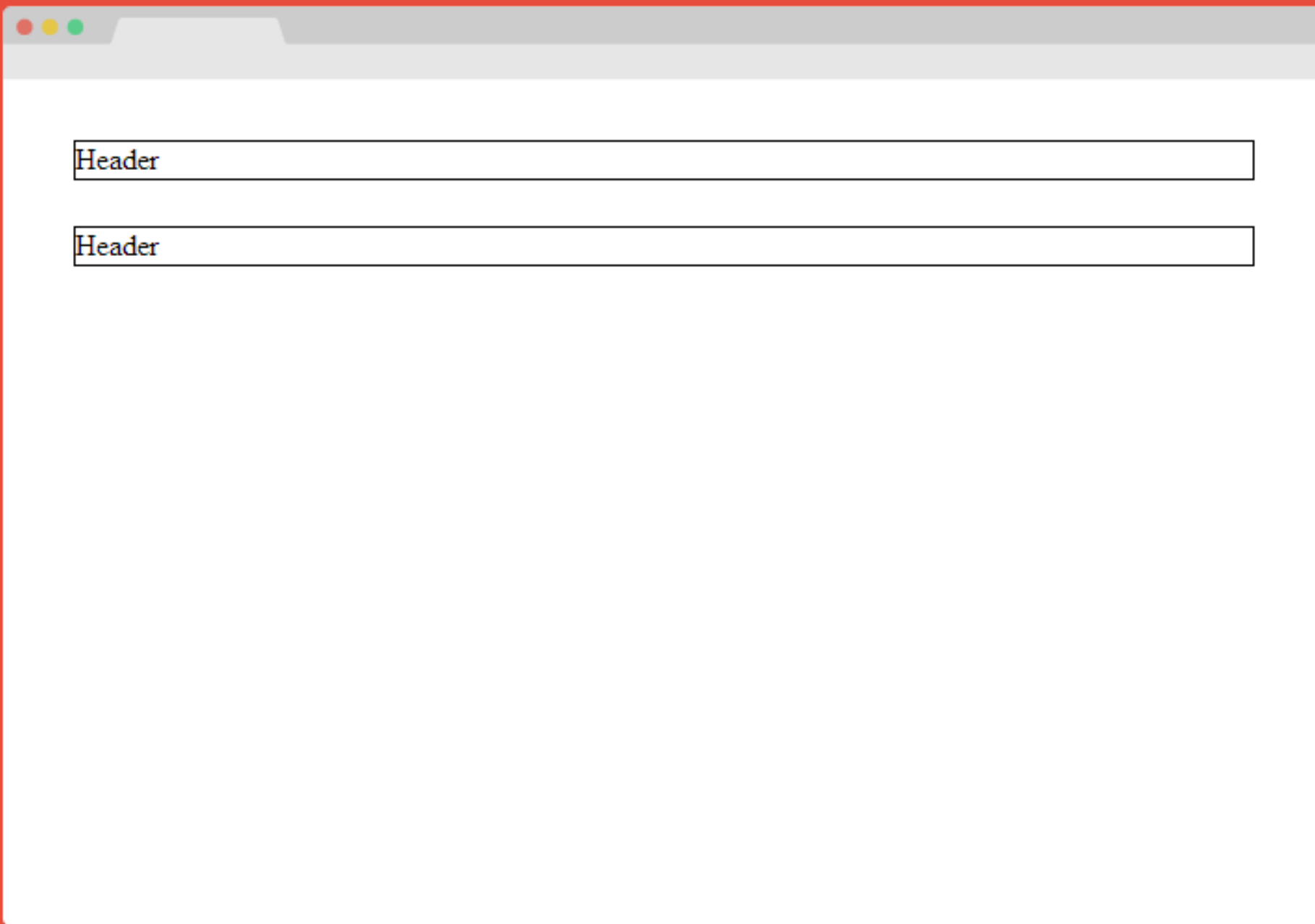
```
    <div class="header">Header</div>
```

```
  </body>
```

```
</html>
```

.CSS FILE

```
.header { margin: 25px }
```

PADDING

```
padding: 25px;
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header">Header</div>
```

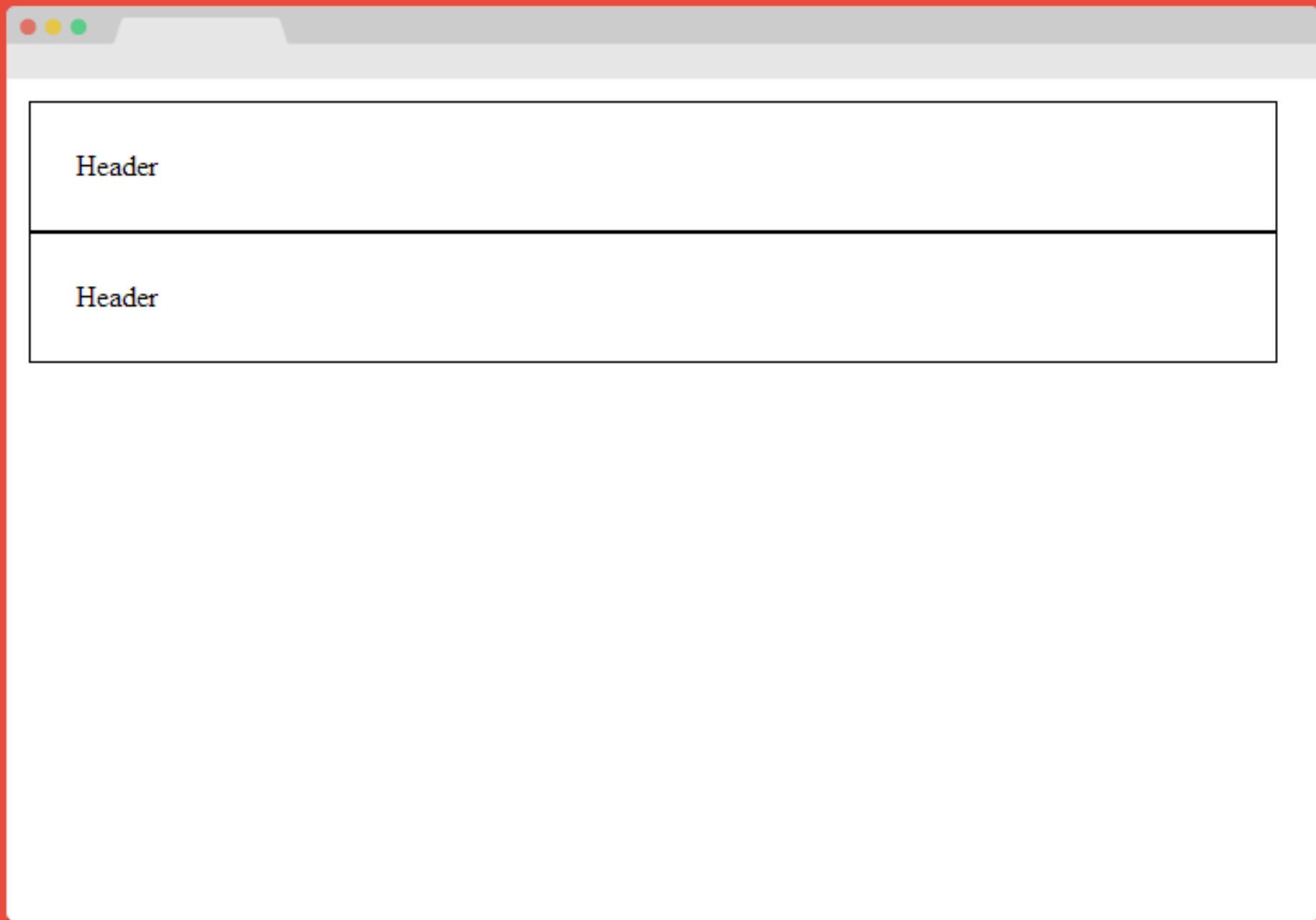
```
    <div class="header">Header</div>
```

```
  </body>
```

```
</html>
```

.CSS FILE

```
.header { padding: 25px }
```



DISPLAY

```
display: inline-block;
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header">Header</div>
```

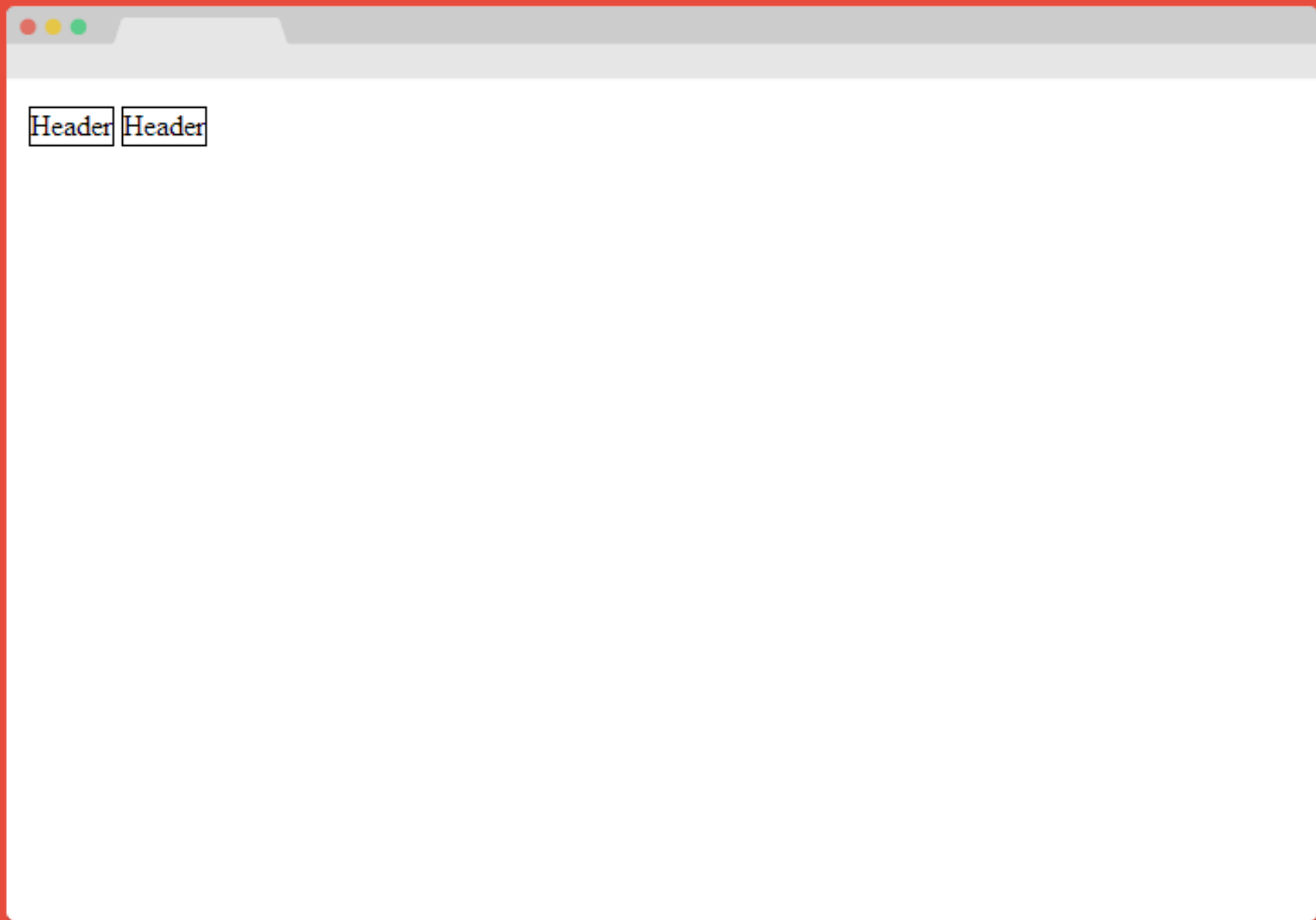
```
    <div class="header">Header</div>
```

```
  </body>
```

```
</html>
```

.CSS FILE

```
.header { display: inline-block }
```



FLOATING

```
float: right;
```



```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header">Header</div>
```

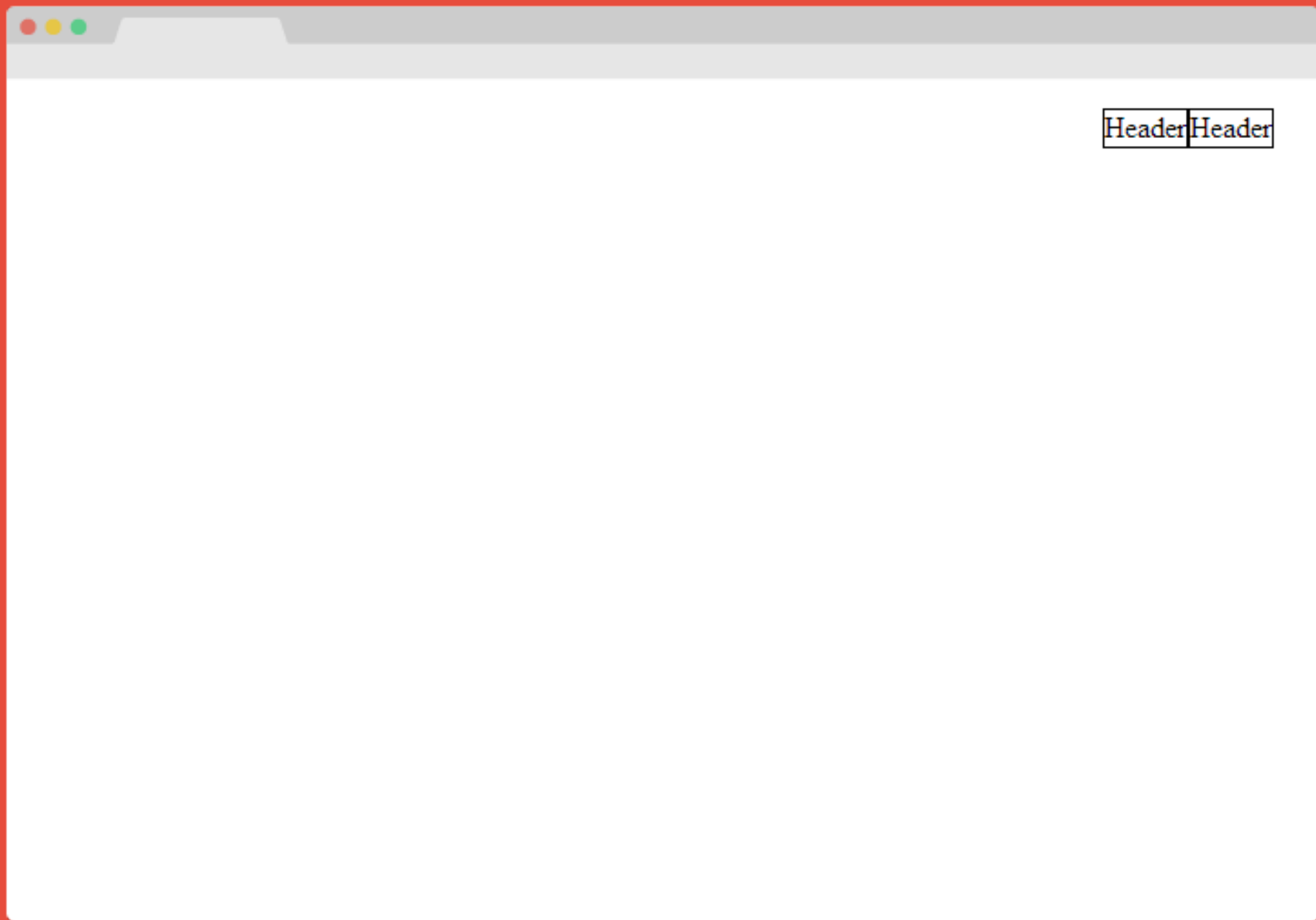
```
    <div class="header">Header</div>
```

```
  </body>
```

```
</html>
```

.CSS FILE

```
.header { float: right }
```



POSITIONING

```
position: absolute;
```

**IF PARENT HAS RELATIVE POSITION, THEN THIS
POSITION IS RELATIVE TO PARENT'S POSITION**

POSITIONING

```
top: 50px;
```

THE ELEMENT HAS 50PX TOP OFFSET

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    ...
```

```
  </head>
```

```
  <body>
```

```
    <div class="header">Header</div>
```

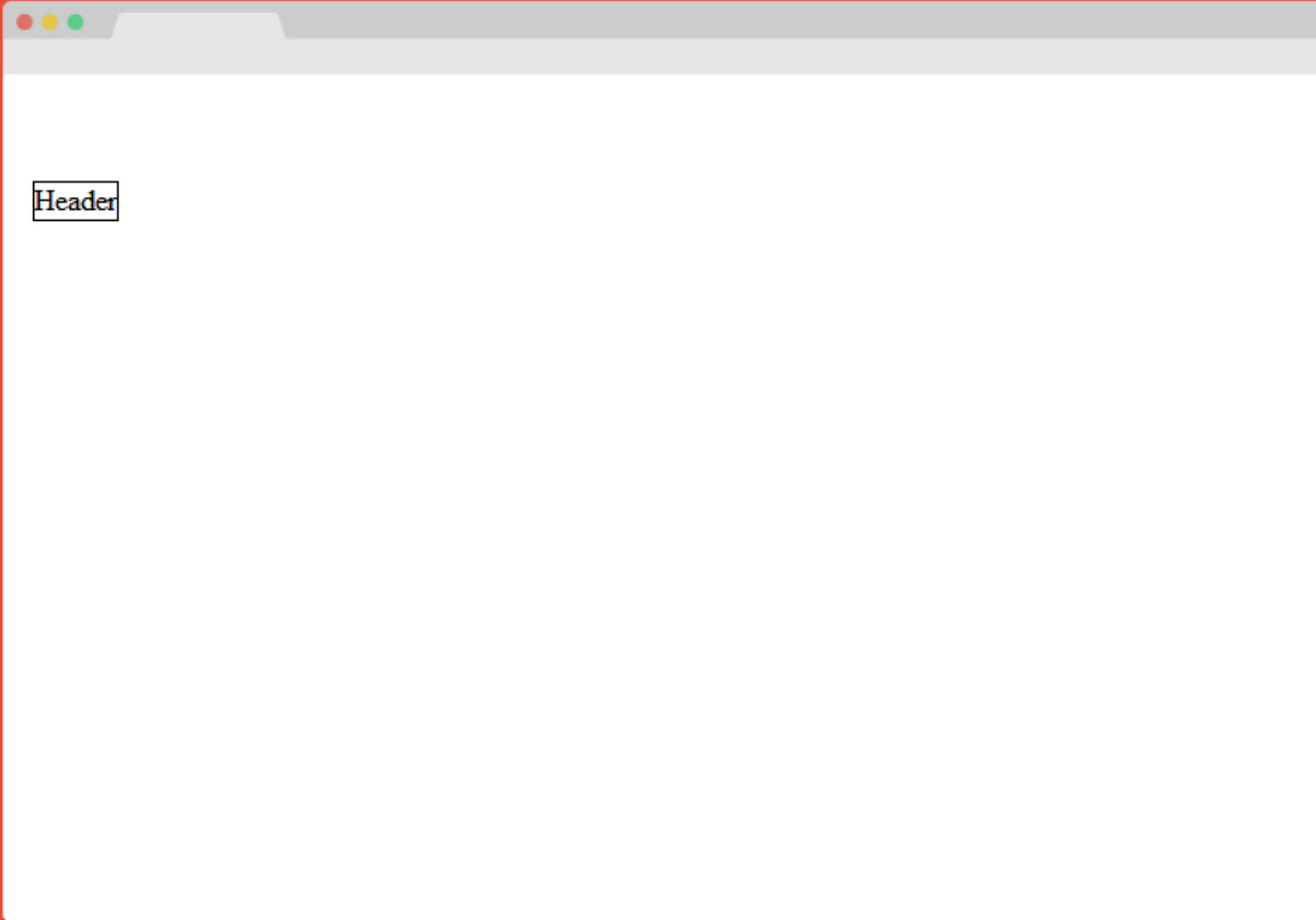
```
    <div class="header">Header</div>
```

```
  </body>
```

```
</html>
```

.CSS FILE

```
.header { position: absolute; top:  
50px }
```



ADVANCED

CSS TOPICS

EVENTS

```
selector:hover { ... }
```

ATTRIBUTES WILL BE APPLIED IN HOVER EVENT

ATTRIBUTE-BASED SELECT

```
selector([target="_blank"]) { ... }
```

**ATTRIBUTES WILL BE APPLIED IF ELEMENT
HAS TARGET ATTRIBUTE SET TO “_blank”**