

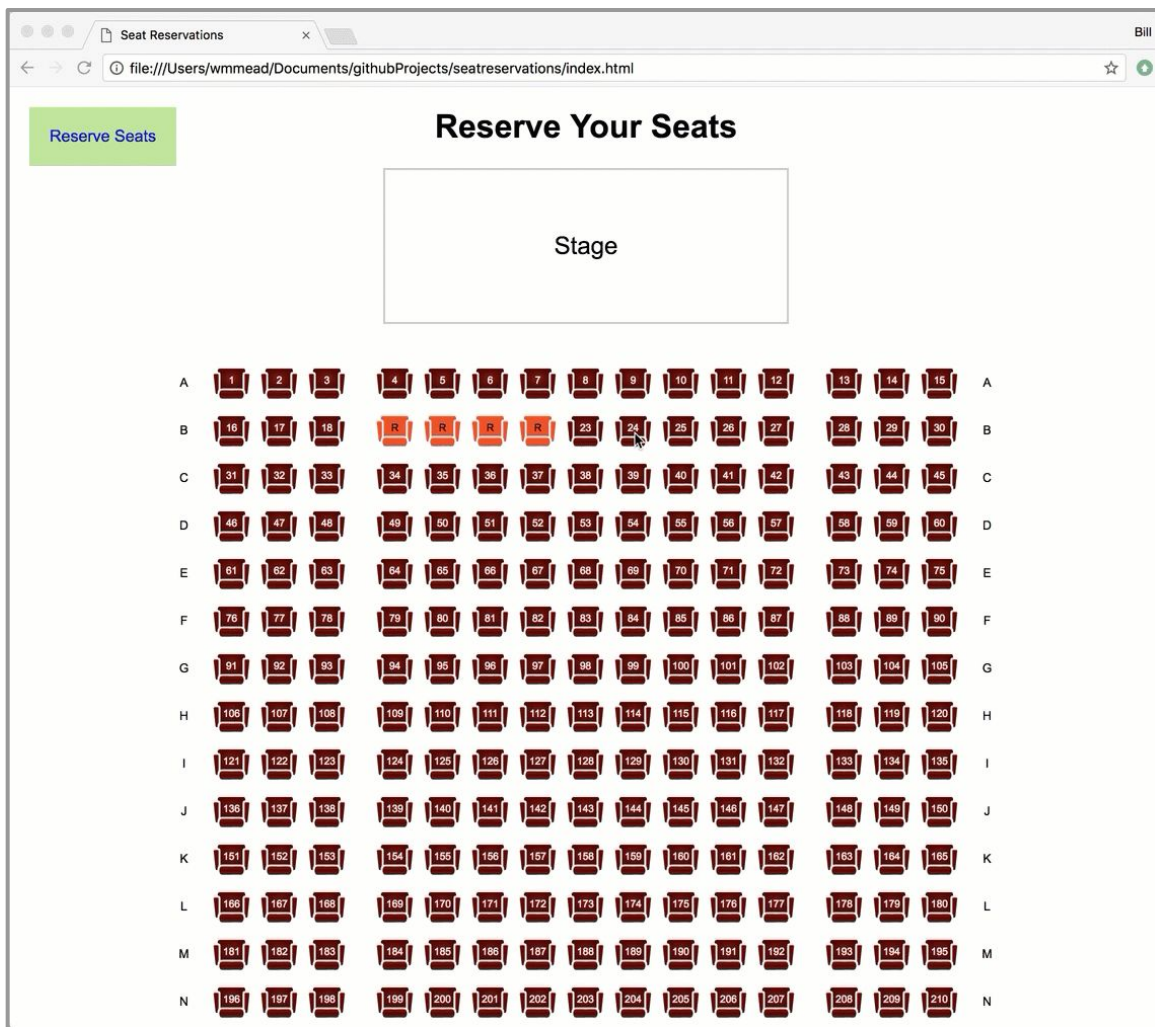
# Seat Reservation Program



Introduction

# The Final Design

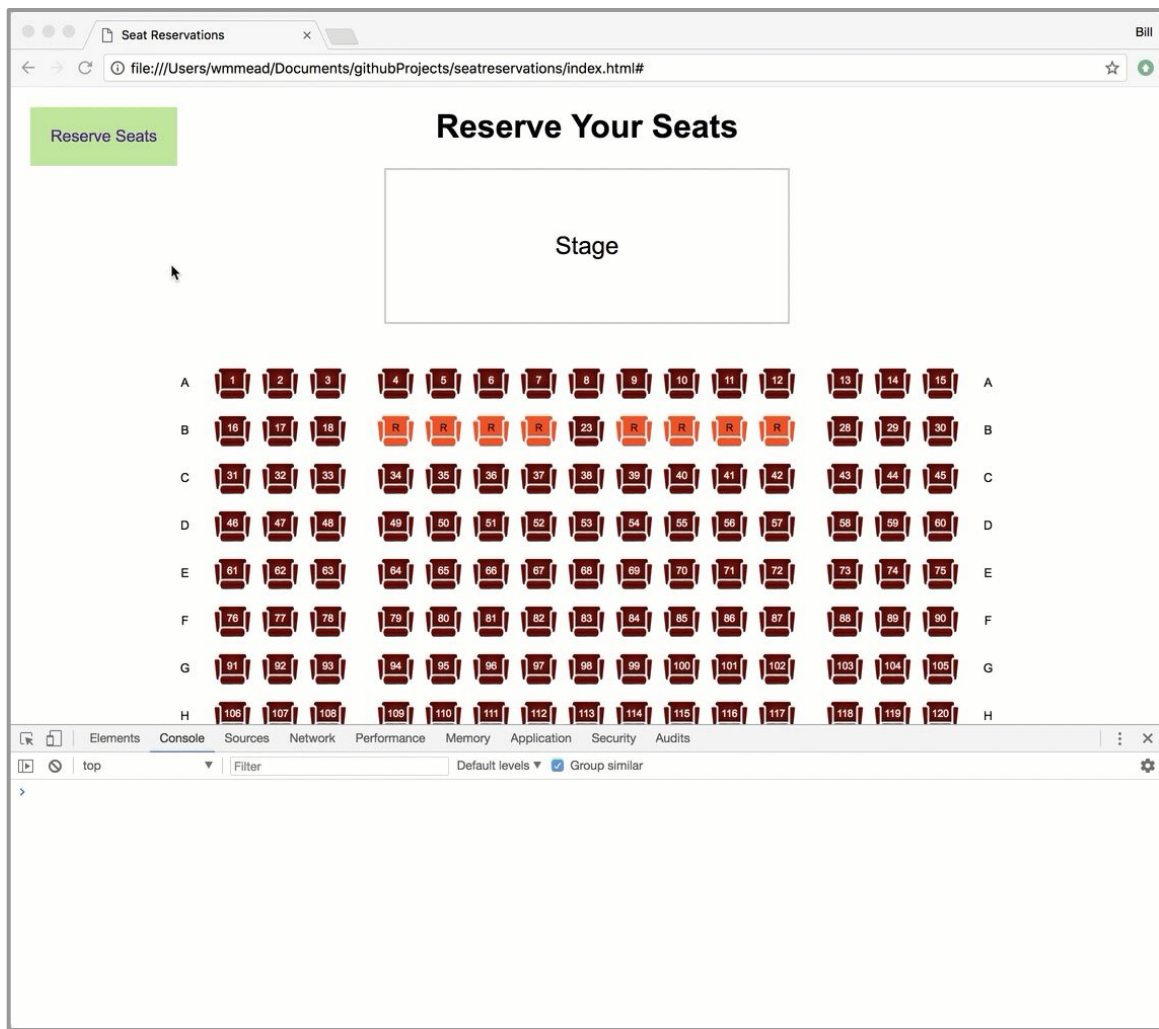
The seat reservation system has simple functionality. You can select seats and reserve them.



# Functionality

Besides the obvious functionality, the seat reservation system handles errors, such as what happens when someone tries to reserve a seat, but has not selected any seats.

Behind the scenes, there is an object, that simulates the kind of thing you would get from a database, and an array that keeps track of seats while you are selecting them. When the reservation is complete, the selected seats are added to the object (to be saved back to the database).



# Challenge 1 - Creating the Seats

- Look at the HTML file and see the pattern.
- How can you use JavaScript to generate all these elements in the document?
- Rows go through T, so you will need 300 individual seats.
- The CSS is on the stylesheet already.

```
<div id="stage">Stage</div>

<div id="seating">
  <section id="left">
    <div class="label">A</div>
    <div id="a1">1</div>
    <div id="a2">2</div>
    <div id="a3">3</div>
  </section>

  <section id="middle">
    <div id="a4">4</div>
    <div id="a5">5</div>
    <div id="a6">6</div>
    <div id="a7">7</div>
    <div id="a8">8</div>
    <div id="a9">9</div>
    <div id="a10">10</div>
    <div id="a11">11</div>
    <div id="a12">12</div>
  </section>

  <section id="right">
    <div id="a13">13</div>
    <div id="a14">14</div>
    <div id="a15">15</div>
    <div class="label">A</div>
  </section>
</div>
```

# Challenge 1 - Planning

- What is your strategy?
- What variables and functions do you need?
- How do you use logical flow control structures to create this pattern of elements?
- How do you start to figure out how to do this?

