

Lab 01: Simple HTML / CSS Stuff

A brief introduction to HTML, CSS, and, provided enough time, a bit of JavaScript.

Useful Resources

Whether self-studying or for the purposes of this and future labs, the following MDN tutorials will often come in handy:

- MDN -> HTML
- MDN -> CSS
- MDN -> JavaScript

The Idea

- Build an initially single page minesweeper website / web app.
- Draw some stuff on board about possible designs and tell them to feel free to copy other designs, if they want to do so.
- Name a few typical pages, such as:
 - Home page
 - Who we are
 - Contact form (this is hinting to php, right?)
 - ...

A Simple Page

Build a simple HTML page using something like the following:

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>
      XYZ University
    </title>
  </head>
  <body>
    Hello World!
  </body>
</html>
```

Add some styling by importing a CSS stylesheet:

```
html, body {
  margin: 0px;
  padding: 0px;
}
```

```
html {
    background: #4585ff;
}
```

At this point, also alter HTML to look like this:

```
<!DOCTYPE html>
<html>
    <head>
        ...
        <link rel="stylesheet" type="text/css" href="./css/style.css" media="screen"/>
        ...
    </head>
    ...
</html>
```

Also, play around with html and body padding.

Adding Cells

Consider this CSS snippet:

```
html, body {
    margin: 0px;
    padding: 0px;
}

html {
    height: 100%;
}

body {
    min-height: 100%;
    background: #4585ff;
    display: flex;
    justify-content: center;
    align-items: center;
}
```

Then display some stuff:

```
<body>
    <div class="main-content-container">
        <div class="minesweeper-grid-container">
            <div class="minesweeper-cell"></div>
            <div class="minesweeper-cell"></div>
            <div class="minesweeper-cell"></div>
            <div class="minesweeper-cell"></div>
```

```

<div class="minesweeper-cell"></div>
</div>
</div>
</body>

```

Now, reload the page and play around. How about some styling?

```

.minesweeper-cell {
    width: 50px;
    height: 50px;
    background: #c6c6c6;
    border-bottom: solid 4px #808080;
    border-right: solid 4px #808080;
    border-top: solid 4px white;
    border-left: solid 4px white;
}

```

- Next, how about adding a navbar and a footer?
- How to properly position the footer always at the bottom of the page?
- How to generate some proper — based navigation menu on the navbar?