



# Green University

**Lab report of CSE 302**  
**Course Title: Web Programming Lab**  
**Course Code: CSE 302**  
**Section: PC DA**

**LAB Report No: 05**

**Submitted to**  
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## ❑ Objective(s)

- To gather knowledge of different CSS layouts such as grid and flexbox.
- To implement a responsive layout using CSS grid layout.

## ➔ Problem analysis

The CSS Grid Layout Module offers a grid-based layout system, with rows and columns, making it easier to design web pages without having to use floats and positioning. CSS Grid Layout (aka “Grid” or “CSS Grid”), is a two-dimensional grid-based layout system that, compared to any web layout system of the past, completely changes the way we design user interfaces. CSS has always been used to layout our web pages, but it’s never done a very good job of it. First, we used tables, then floats, positioning and inline-block, but all of these methods were essentially hacks and left out a lot of important functionality (vertical centering, for instance). work together quite well! Grid is the very first CSS module created specifically to solve the layout problems we’ve all been hacking our way around for as long as we’ve been making websites.

## Implementation in HTML and CSS

### HTML

```
<!DOCTYPE html>
<html>
  <head>
    <title>CSS Grid - Layout</title>

    <link rel="stylesheet" type="text/css" href=" ../css/index.css" />
  </head>
  <body>
    <div id="wrapper">
      <div id="headerwrap">
        <div id="header">
          <h4>This is the Header</h4>
        </div>
      </div>
      <div id="navigationwrap">
        <div id="navigation">
          <p>This is the Menu</p>
        </div>
      </div>
      <div id="contentwrap">
```

```
<div id="content">
  <p>
    Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer
nec
    odio. Praesent libero. Sed cursus ante dapibus diam. Sed nisi.
Nulla
    quis sem at nibh elementum imperdiet. Duis sagittis ipsum. Praesent
    mauris. Fusce nec tellus sed augue semper porta. Mauris massa.
    Vestibulum lacinia arcu eget nulla. Class aptent taciti sociosqu ad
    litora torquent per conubia nostra, per inceptos himenaeos.
    Curabitur sodales ligula in libero. Sed dignissim lacinia nunc.
  </p>
  <p>
    Sed lacinia, urna non tincidunt mattis, tortor neque adipiscing
    diam, a cursus ipsum ante quis turpis. Nulla facilisi. Ut
fringilla.
    Suspendisse potenti. Nunc feugiat mi a tellus consequat imperdiet.
    Vestibulum sapien. Proin quam. Etiam ultrices. Suspendisse in justo
    eu magna luctus suscipit. Sed lectus. Integer euismod lacus luctus
    magna. Quisque cursus, metus vitae pharetra auctor, sem massa
mattis
    sem, at interdum magna augue eget diam. Vestibulum ante ipsum
primis
    in faucibus orci luctus et ultrices posuere cubilia Curae; Morbi
    lacinia molestie dui. Praesent blandit dolor.
  </p>
  <p>
    Sed non quam. In vel mi sit amet augue congue elementum. Morbi in
    ipsum sit amet pede facilisis laoreet. Donec lacus nunc, viverra
    nec, blandit vel, egestas et, augue. Vestibulum tincidunt malesuada
    tellus. Ut ultrices ultrices enim. Curabitur sit amet mauris. Morbi
    in dui quis est pulvinar ullamcorper. Nulla facilisi. Integer
    lacinia sollicitudin massa. Cras metus. Sed aliquet risus a tortor.
    Integer id quam.
  </p>
</div>
```

```
</div>
<div id="rightcolumnwrap">
  <div id="rightcolumn">
    <p>
      Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer
nec
      odio. Praesent libero. Sed cursus ante dapibus diam. Sed nisi.
Nulla
      quis sem at nibh elementum imperdiet. Duis sagittis ipsum. Praesent
      mauris. Fusce nec tellus sed augue semper porta. Mauris massa.
      Vestibulum lacinia arcu eget nulla.
    </p>
  </div>
</div>
<div id="footerwrap">
  <div id="footer">
    <p>This is the Footer</p>
  </div>
</div>
</div>
</body>
</html>
```

## CSS

```
body {
  font-family: Verdana, Arial, Helvetica, sans-serif;
  font-size: 13px;
  color: #333;
}

p {
  padding: 10px;
}
```

```
}

#wrapper {
  margin: 0 auto;
  width: 1000px;
}

#headerwrap {
  width: 1000px;
  float: left;
  margin: 0 auto;
}

#header {
  height: 75px;
  background: #ff6633;
  border-radius: 10px;
  border: 1px solid #eb521f;
  margin: 5px;
}

#navigationwrap {
  width: 1000px;
  float: left;
  margin: 0 auto;
}

#navigation {
  height: 40px;
  background: #ffcc33;
  border-radius: 10px;
  border: 1px solid #ebb81f;
  margin: 5px;
}

#contentwrap {
  width: 850px;
  float: left;
```

```
margin: 0 auto;
}

#content {
  background: #ffffff;
  border-radius: 10px;
  border: 1px solid #ebebeb;
  margin: 5px;
}

#rightcolumnwrap {
  width: 150px;
  float: left;
  margin: 0 auto;
}

#rightcolumn {
  background: #cc33ff;
  border-radius: 10px;
  border: 1px solid #b81feb;
  margin: 5px;
}

#footerwrap {
  width: 1000px;
  float: left;
  margin: 0 auto;
  clear: both;
}

#footer {
  height: 40px;
  background: #33ff66;
  border-radius: 10px;
  border: 1px solid #1feb52;
  margin: 5px;
}
```

# Output



## Discussion & Conclusion

Based on the objective(s) to understand different CSS layouts, the additional lab exercise made me more confident about learning different layout techniques.

## Problem Analysis

Design a responsive page layout using CSS grid or flex. By using CSS grid area property you should design the layout. The responsiveness of the can be added by using media screen property.