

# Schön geordnet

CSS Grid Layout erlaubt die Definition von Grid-Layouts ohne zusätzliche Frameworks.

## Listing 1: Das Ausgangs-HTML

```
<!DOCTYPE html>
<html>
<head lang="en">
  <meta charset="UTF-8">
  <title>CSS Grid Layout</title>
  <link rel="stylesheet" href="styles/styles.css">
</head>
<body>
  <div class="wrapper">
    <div class="box one">1</div>
    <div class="box two">2</div>
    <div class="box three">3</div>
    <div class="box four">4</div>
    <div class="box five">5</div>
    <div class="box six">6</div>
  </div>
</body>
</html>
```

## Listing 2: Definition des Grids

```
.wrapper {
  display: grid;
  grid-template-columns: 200px 200px 200px;
  grid-template-rows: auto auto;
  background-color: #FFFFFF;
  color: #FFFFFF;
}

.box {
  text-align: center;
  background-color: #f0f7fc;
  border: 2px solid #58afe2;
  font-family: Arial;
  color: #58afe2;
  border-radius: 5px;
  padding: 20px;
  font-size: 1.5rem;
  margin: 5px;
}
```

## Listing 3: Funktion repeat()

```
.wrapper {
  display: grid;
  grid-template-columns: repeat(3, 200px);
  grid-template-rows: repeat(2, auto);
  background-color: #FFFFFF;
  color: #FFFFFF;
}
```

## Listing 4: Definition der Bereiche im Grid

```
.one {
  grid-row-start: 1;
  grid-row-end: 2;
```

```

    grid-column-start: 1;
    grid-column-end: 2;
}

.two {
    grid-row-start: 1;
    grid-row-end: 2;
    grid-column-start: 2;
    grid-column-end: 3;
}

.three {
    grid-row-start: 1;
    grid-row-end: 2;
    grid-column-start: 3;
    grid-column-end: 4;
}

.four {
    grid-row-start: 2;
    grid-row-end: 3;
    grid-column-start: 1;
    grid-column-end: 2;
}

.five {
    grid-row-start: 2;
    grid-row-end: 3;
    grid-column-start: 2;
    grid-column-end: 3;
}

.six {
    grid-row-start: 2;
    grid-row-end: 3;
    grid-column-start: 3;
    grid-column-end: 4;
}

```

### Listing 5: Shorthand-Eigenschaften

```

.one {
    grid-row: 1 / 2;
    grid-column: 1 / 2;
}

.two {
    grid-row: 1 / 2;
    grid-column: 2 / 3;
}

.three {
    grid-row: 1 / 2;
    grid-column: 3 / 4;
}

.four {
    grid-row: 2 / 3;
    grid-column: 1 / 2;
}

.five {
    grid-row: 2 / 3;
    grid-column: 2 / 3;
}

.six {
    grid-row: 2 / 3;
    grid-column: 3 / 4;
}

```

## Listing 6: grid-area

```
.one {
  grid-area: 1 / 1 / 2 / 2;
}

.two {
  grid-area: 1 / 2 / 2 / 3;
}

.three {
  grid-area: 1 / 3 / 2 / 4;
}

.four {
  grid-area: 2 / 1 / 3 / 2;
}

.five {
  grid-area: 2 / 2 / 3 / 3;
}

.six {
  grid-area: 2 / 3 / 3 / 4;
}
```

## Listing 7: Definition übergreifender Bereiche

```
.wrapper {
  display: grid;
  grid-template-columns: 200px 200px 200px 200px;
  grid-template-rows: auto auto auto auto;
  background-color: #FFFFFF;
  color: #FFFFFF;
}

.box {
  text-align: center;
  background-color: #f0f7fc;
  border: 2px solid #58afe2;
  font-family: Arial;
  color: #58afe2;
  border-radius: 5px;
  padding: 20px;
  font-size: 1.5rem;
  margin: 5px;
}

.one {
  grid-row: 1 / 2;
  grid-column: 1 / 3;
}

.two {
  grid-row: 1 / 2;
  grid-column: 3 / 4;
}

.three {
  grid-row: 2 / 4;
  grid-column: 1 / 2;
}

.four {
  grid-row: 2 / 3;
  grid-column: 2 / 4;
}

.five {
  grid-row: 3 / 4;
  grid-column: 2 / 3;
}
```

```

}

.six {
  grid-row: 3 / 4;
  grid-column: 3 / 4;
}

```

### Listing 8: Verwenden des span-Schlüsselworts

```

.one {
  grid-row: 1 / 2;
  grid-column: 1 / span 2;
}

.two {
  grid-row: 1 / 2;
  grid-column: 3 / 4;
}

.three {
  grid-row: 2 / span 2;
  grid-column: 1 / 2;
}

.four {
  grid-row: 2 / 3;
  grid-column: 2 / span 2;
}

.five {
  grid-row: 3 / 4;
  grid-column: 2 / 3;
}

.six {
  grid-row: 3 / 4;
  grid-column: 3 / 4;
}

```

### Listing 9: Benennen von Zeilen und Spalten

```

.wrapper {
  display: grid;
  grid-template-columns: [column1] 200px [column2] 200px
[column3] 200px [column4] 200px;
  grid-template-rows: [row1] auto [row2] auto [row3] auto
[row4] auto;
  background-color: #FFFFFF;
  color: #FFFFFF;
}
...
.one {
  grid-row: row1 / row2;
  grid-column: column1 / span 2;
}
.two {
  grid-row: row1 / row2;
  grid-column: column3 / column4;
}
.three {
  grid-row: row2 / span 2;
  grid-column: column1 / column2;
}
.four {
  grid-row: row2 / row3;
  grid-column: column2 / span 2;
}
.five {
  grid-row: row3 / row4;
  grid-column: column2 / column3;
}

```

```
.six {
  grid-row: row3 / row4;
  grid-column: column3 / column4;
}
```

### Listing 10: HTML mit semantischen Elementen

```
<!DOCTYPE html>
<html>
<head lang="en">
  <meta charset="UTF-8">
  <title>CSS Grid Module</title>
  <link rel="stylesheet" href="styles/styles.css">
</head>
<body>
  <div class="wrapper">
    <header class="box">Header</header>
    <nav class="box">Navigation</nav>
    <div class="box content">Content</div>
    <aside class="box">Sidebar</aside>
    <footer class="box">Footer</footer>
  </div>
</body>
</html>
```

### Listing 11: Definition von Grid-Bereichen

```
header {
  grid-area: header;
}
.content {
  grid-area: content;
}
nav {
  grid-area: nav;
}
aside {
  grid-area: sidebar;
}
footer {
  grid-area: footer;
}
```

### Listing 12: Definition von Grid-Bereichen

```
.wrapper {
  display: grid;
  grid-template-columns: repeat(5, 20%);
  grid-template-rows: repeat(6, 100px);
  grid-template-areas: "header header header header header"
    "nav content content content sidebar"
    "nav content content content sidebar"
    "nav content content content sidebar"
    "nav content content content sidebar"
    "footer footer footer footer footer";
  background-color: #FFFFFF;
  color: #FFFFFF;
}
```

### Listing 13: Media Queries

```
@media only screen and (max-width: 540px) {
  .wrapper {
    display: grid;
    grid-template-columns: repeat(3, 33%);
    grid-template-rows: repeat(5, auto);
    grid-template-areas: "header header header"
      "nav nav nav"
      "content content content";
  }
}
```

```
    "sidebar sidebar sidebar"
    "footer footer footer";
background-color: #FFFFFF;
color: #FFFFFF;
}
}
@media only screen and (min-width: 540px) {
.wrapper {
display: grid;
grid-template-columns: repeat(5, 20%);
grid-template-rows: repeat(6, 100px);
grid-template-areas: "header header header header header"
    "nav content content content sidebar"
    "nav content content content sidebar"
    "nav content content content sidebar"
    "nav content content content sidebar"
    "footer footer footer footer footer";
background-color: #FFFFFF;
color: #FFFFFF;
}
}
```