

Agenda :

- Enabling Grid. ✓
- Grid-template-column ✓
- Grid-template-row ✓
- Grid-template : row / column. ✓
- Unit : fraction <fr> ✓
- Repeat().
- Fit-Content().
- Grid Gap / Gap / column-gap / row-gap.
- 2 Exercise till above content.
- Working with Grid Lines.
- Grid Positioning.
- Grid span.
- Grid Template Areas.

Grid : <https://www.nytimes.com/international/>

Enabling Grid :

```
<div class="container">
  <div class="box" style="background-color: #d46217;">FIRST</div>
  <div class="box" style="background-color: #e3342f;">SECOND</div>
  <div class="box" style="background-color: #f6993f;">THIRD</div>
  <div class="box" style="background-color: #38c172;">FOURTH</div>
  <div class="box" style="background-color: #3490dc;">FIFTH</div>
  <div class="box" style="background-color: #60ad07;">SIXTH</div>
  <div class="box" style="background-color: #ed11de;">SEVENTH</div>
  <div class="box" style="background-color: #9561e2;">EIGHTH</div>
</div>
```

```
.container{
  height: 700px;
  width: 700px;
  background-color: #111;
  margin: 200px auto;
  display: grid;
}

.box{
  color: white;
  font-size: 18px;
  text-align: center;
}
```



Grid-template-columns : Same HTML



```
.container{
  height: 700px;
  width: 700px;
  background-color: #111;
  margin: 200px auto;
  display: grid;
  grid-template-columns: 1fr 2fr 1fr;
}

.box{
  color: white;
  font-size: 18px;
  text-align: center;
}
```

Grid-template-row :

```
.container{
    height: 700px;
    width: 700px;
    background-color: #111;
    margin: 200px auto;
    display: grid;
    grid-template-columns: 1fr 1fr;
    grid-template-rows: 1fr 2fr 1fr 2fr;
}

.box{
    color: white;
    font-size: 18px;
    text-align: center;
}
```



Grid-template : row / column;

```
.container{
    height: 700px;
    width: 700px;
    background-color: #111;
    margin: 200px auto;
    display: grid;
    /* grid-template-columns: 1fr 1fr;
    grid-template-rows: 1fr 2fr 1fr 2fr; */
    grid-template: 1fr 2fr 1fr 2fr / 1fr 1fr;
}

.box{
    color: white;
    font-size: 18px;
    text-align: center;
}
```

row col

Shorthand property

Challenge 1 :

```
/*
Style the container to create:
- 3 columns, all evenly sized
- 3 rows (100 pixels, 200px, and 100px)
*/

.container{
    display : grid;
    grid-template-columns : 1fr 1fr 1fr;
    grid-template-rows : 100px 200px 100px;
}
```

Repeat():

```
.container{
    height: 700px;
    width: 700px;
    background-color: #111;
    margin: 200px auto;
    display: grid;
    grid-template-columns: repeat(2, 300px);
    grid-template-rows: repeat(4, 1fr);
    /* grid-template: 1fr 2fr 1fr 2fr / 1fr 1fr; */
}

.box{
    color: white;
    font-size: 18px;
    text-align: center;
}
```

FIT-CONTENT :

```
<div class="container">
    <div class="box" style="background-color: #d46217;">Lorem ipsum, dolor </div>
    <div class="box" style="background-color: #e3342f;">Lorem ipsum dolor sit amet consectetur adipisicing elit. Qui eveniet, ut veritatis enim explicabo sit voluptate maxime sint autem voluptatibus non laboriosam libero iure eum ea! Itaque consequatur nam libero rerum doloremque, quos laudantium numquam assumenda incident suscipit corrupti sapiente soluta cumque dolores, ea possimus saepe dignissimos. Illo, quia voluptatibus.</div>
    <div class="box" style="background-color: #f6993f;">THIRD</div>
    <!-- <div class="box" style="background-color: #38c172;">FOURTH</div>
    <div class="box" style="background-color: #3490dc;">FIFTH</div>
    <div class="box" style="background-color: #60ad07;">SIXTH</div>
    <div class="box" style="background-color: #ed11de;">SEVENTH</div>
    <div class="box" style="background-color: #9561e2;">EIGHTH</div> -->
</div>
```

```
.container{
    height: 700px;
    width: 700px;
    background-color: #111;
    margin: 200px auto;
    display: grid;
    grid-template-columns: fit-content(200px) fit-content(400px) fit-content(100px);
    /* grid-template-rows: repeat(4, 1fr); */
    /* grid-template: 1fr 2fr 1fr 2fr / 1fr 1fr; */
}

.box{
    color: white;
    font-size: 18px;
    text-align: center;
}
```

Lorem ipsum, dolor Lorem ipsum dolor sit amet consectetur adipisicing elit. Qui eveniet, ut veritatis enim explicabo sit voluptate maxime sint autem voluptatibus non laboriosam libero iure eum ea! Itaque consequatur nam libero rerum doloremque, quos laudantium numquam assumenda incidunt suscipit corrupti sapiente soluta cumque dolores, ea possimus saepe dignissimos. Illo, quia voluptatibus.

THIRD

GRID - GAP :

```

.container{
  height: 700px;
  width: 700px;
  background-color: #111;
  margin: 200px auto;
  display: grid;
  grid-template-columns: 1fr 1fr;
  grid-template-rows: repeat(4, 1fr);
  /* column-gap: 10px;
  row-gap: 10px; */
  gap: 10px 40px;
  /* grid-template: 1fr 2fr 1fr 2fr / 1fr 1fr; */
}

.box{
  color: white;
  font-size: 18px;
  text-align: center;
}

```

Challenge 1 : Link [<https://codepen.io/KrishnaGeek/pen/bGZgOBj>]

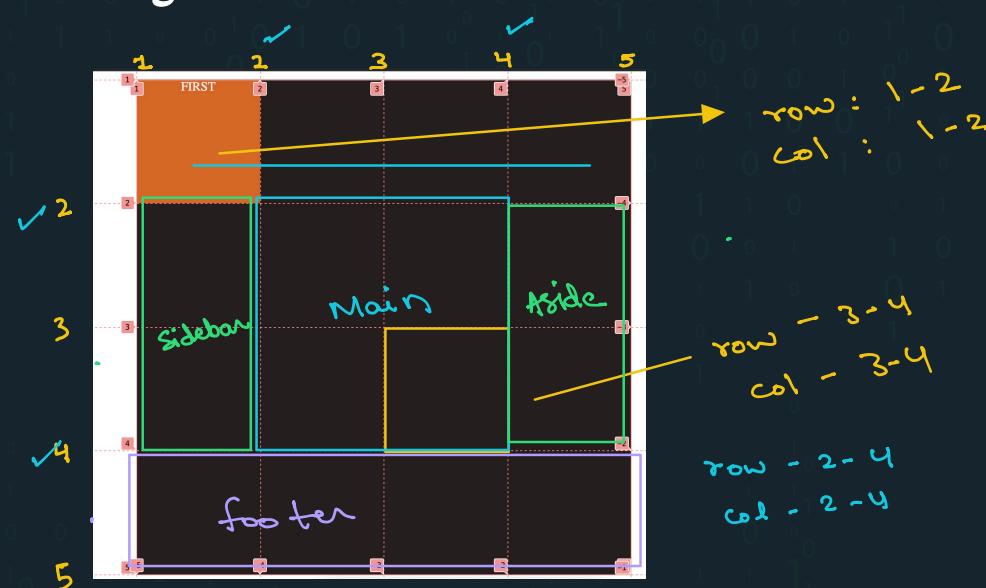
Challenge 2 : Link [<https://codepen.io/KrishnaGeek/pen/JjzEwxL>]

```

/*
Style the container div
- 6 columns, each 1 fraction. USE
REPEAT!
- 4 rows, each 100 pixels. USE REPEAT!
- 10px gaps between rows and columns
*/
.container{
  display : grid;
  grid-template-columns : repeat(6, 1fr);
  grid-template-rows : repeat(4 , 100px);
  gap : 10px;
}

```

Working with GRID LINES :



Grid Positioning :

- **grid-column-start**
- **grid-column-end**
- **grid-row-start**
- **grid row end**



```

<div class="container">
  <div class="box first" style="background-color: #d46217;">FIRST</div>
  <div class="box second" style="background-color: #e3342f;">SECOND</div>
  <!-- <div class="box" style="background-color: #f6993f;">THIRD</div>
  <div class="box" style="background-color: #38c172;">FOURTH</div>
  <div class="box" style="background-color: #3490dc;">FIFTH</div>
  <div class="box" style="background-color: #60ad07;">SIXTH</div>
  <div class="box" style="background-color: #ed11de;">SEVENTH</div>
  <div class="box" style="background-color: #9561e2;">EIGHTH</div> -->
</div>

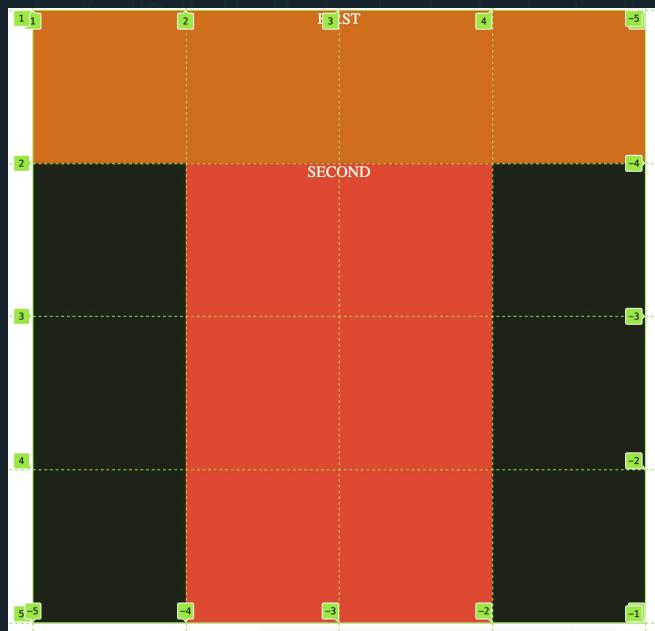
.container{
  height: 700px;
  width: 700px;
  background-color: #111;
  margin: 200px auto;
  display: grid;
  grid-template-columns: repeat(4, 1fr);
  grid-template-rows: repeat(4, 1fr);
}

.box{
  color: white;
  font-size: 18px;
  text-align: center;
}

.first{
  grid-column-start: 1;
  grid-column-end: 5;
  grid-row-start: 1;
  grid-row-end: 2;
}

.second{
  grid-column-start: 2;
  grid-column-end: 4;
  grid-row-start: 2;
  grid-row-end: 5;
}

```



Grid Span :



```

<div class="container">
  <div class="box first" style="background-color: #d46217;">FIRST</div>
  <div class="box second" style="background-color: #e3342f;">SECOND</div>
  <div class="box" style="background-color: #f6993f;">THIRD</div>
  <div class="box" style="background-color: #38c172;">FOURTH</div>
  <div class="box" style="background-color: #3490dc;">FIFTH</div>
  <div class="box" style="background-color: #60ad07;">SIXTH</div>
  <div class="box" style="background-color: #ed11de;">SEVENTH</div>
  <div class="box" style="background-color: #9561e2;">EIGHTH</div>
</div>

```

```

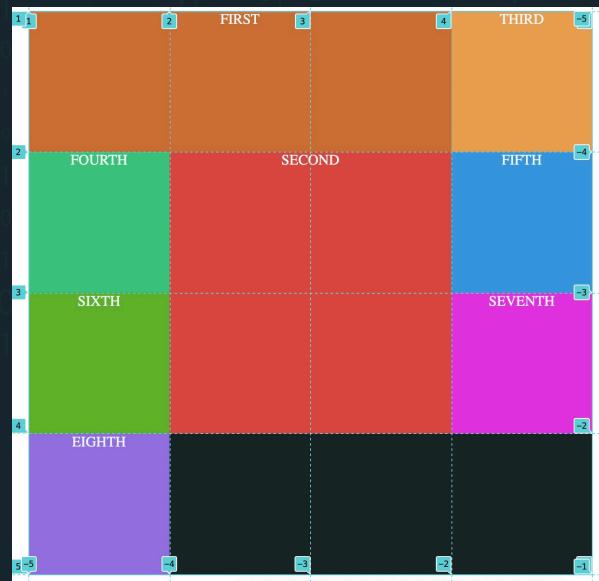
.container{
  height: 700px;
  width: 700px;
  background-color: #111111;
  margin: 200px auto;
  display: grid;
  grid-template-columns: repeat(4, 1fr);
  grid-template-rows: repeat(4, 1fr);
}

.box{
  color: white;
  font-size: 18px;
  text-align: center;
}

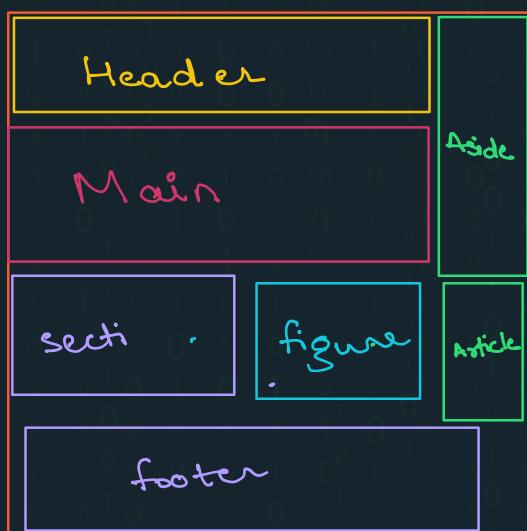
.first{
  grid-column-start: 1;
  grid-column-end: span 3;
  grid-row-start: 1;
  grid-row-end: 2;
}

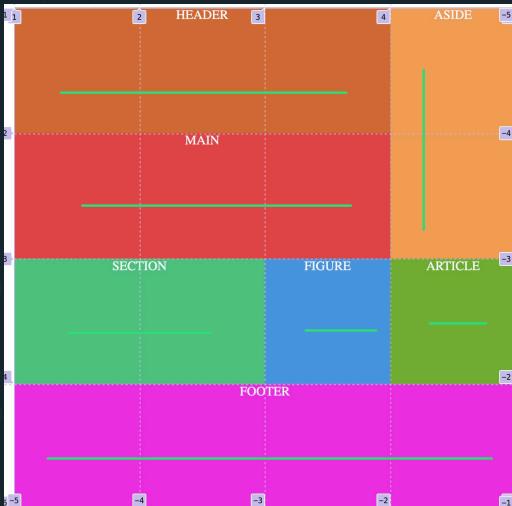
.second{
  grid-column-start: 2;
  grid-column-end: 4;
  grid-row-start: 2;
  grid-row-end: span 2;
}

```



GRID TEMPLATE AREA :





```
grid-template-areas:
"header header header aside"
"main main main aside"
"section section figure article"
"footer footer footer footer";
```

```
<div class="container">
<div class="box header" style="background-color: #d46217;">>HEADER</div>
<div class="box main" style="background-color: #e3342f;">>MAIN</div>
<div class="box aside" style="background-color: #f6993f;">>ASIDE</div>
<div class="box section" style="background-color: #38c172;">>SECTION</div>
<div class="box figure" style="background-color: #3490dc;">>FIGURE</div>
<div class="box article" style="background-color: #60ad07;">>ARTICLE</div>
<div class="box footer" style="background-color: #ed11de;">>FOOTER</div>
<!---- <div class="box" style="background-color: #9561e2;">>EIGHTH</div> -->
</div>
```

```
.container{
  height: 700px;
  width: 700px;
  background-color: #111;
  margin: 200px auto;
  display: grid;
  grid-template-columns: repeat(4, 1fr);
  grid-template-rows: repeat(4, 1fr);
  grid-template-areas:
  "header header header aside"
  "main main main aside"
  "section section figure article"
  "footer footer footer footer";
}

.box{
  color: white;
  font-size: 18px;
  text-align: center;
}
```

```
.header{
  grid-area: header;
}
```

```
.aside{
  grid-area: aside;
}
```

```
.main{
  grid-area: main;
}
```

```
.section{
  grid-area: section;
}
```

```
.figure{
  grid-area: figure;
}
```

```
.article{
  grid-area: article;
}
```

```
.footer{
  grid-area: footer;
}
```

```
/* grid-template-columns: repeat(4, 1fr);
grid-template-rows: repeat(4, 1fr); */
grid-template-areas:
"header header header header aside"
"main main main . aside"
"section section figure . article"
"footer footer footer footer footer";
```

Grid : Concept of void.