

PROJETO WEB RESPONSIVO

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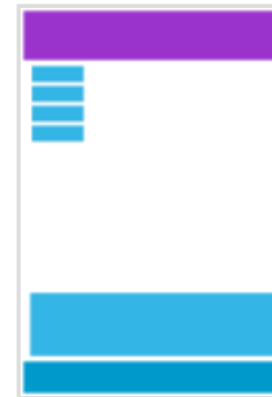
O que é projeto responsivo?

- Projeto web responsivo são técnicas para que a página mantenha qualidade visual em todos os dispositivos
- Projeto responsivo geralmente utiliza HTML e CSS
- Um projeto responsivo não é um programa ou o JavaScript

Uma página, múltiplos layouts



Desktop



Tablet



Phone

Viewport

- Inserir dados na tag <meta> sobre o Viewport

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

- Como o browser controla as dimensões da página e a escala

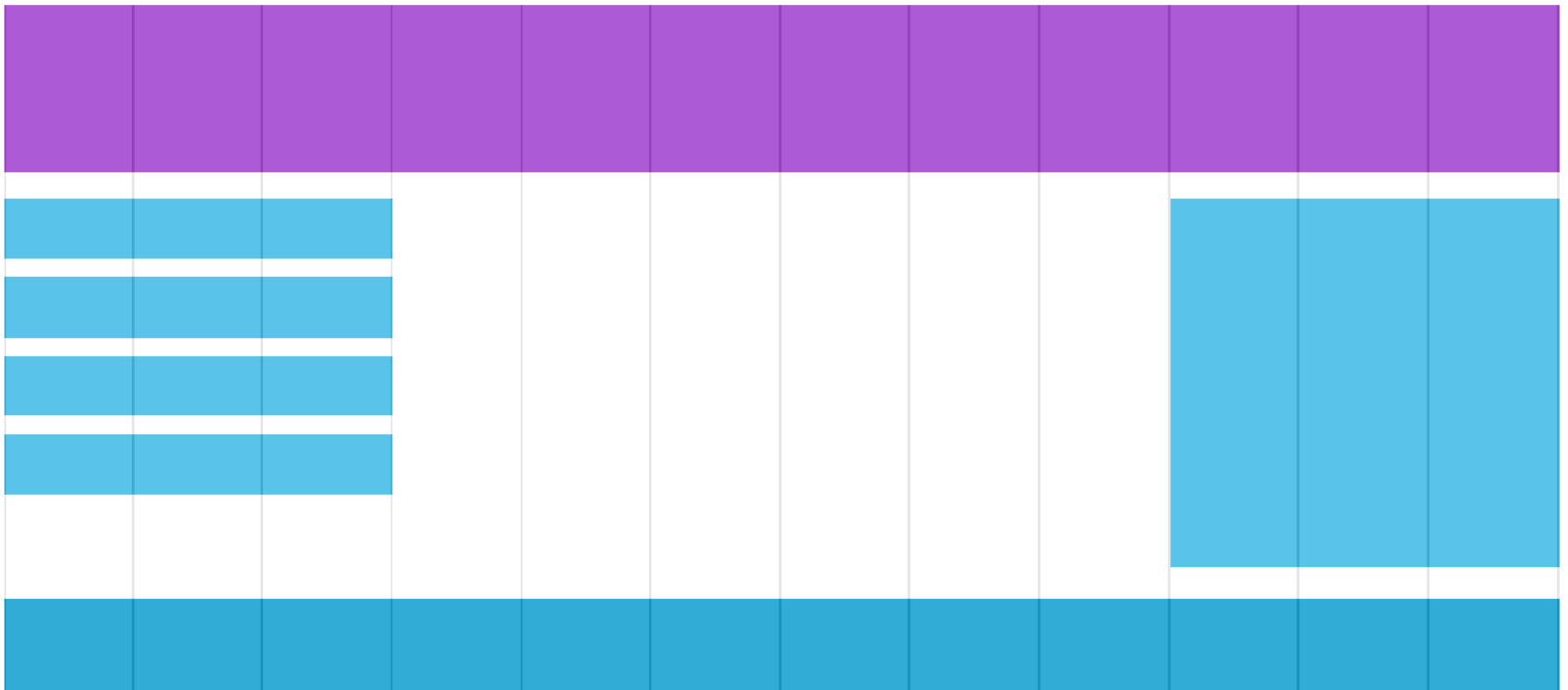


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Organizando a página em colunas



Organizando a página em colunas

```
* {  
  box-sizing: border-box;  
}
```

25%	75%
-----	-----

```
.menu {  
  width: 25%;  
  float: left;  
}  
.main {  
  width: 75%;  
  float: left;  
}
```

Organizando a página em colunas

```
[class*="col-"] {  
    float: left;  
    padding: 15px;  
    border: 1px solid red;  
}
```

```
<div class="row">  
    <div class="col-3">...</div> <!-- 25% -->  
    <div class="col-9">...</div> <!-- 75% -->  
</div>
```


Resetando o fluxo para não haver sobreposições

```
.row::after {  
  content: "";  
  clear: both;  
  display: table;  
}
```

```
html {  
  font-family: "Lucida Sans", sans-serif;  
}
```

```
.header {  
  background-color: #9933cc;  
  color: #ffffff;  
  padding: 15px;  
}
```

```
.menu ul {  
  list-style-type: none;  
  margin: 0;  
  padding: 0;  
}
```

```
.menu li {  
  padding: 8px;  
  margin-bottom: 7px;  
  background-color :#33b5e5;  
  color: #ffffff;  
  box-shadow: 0 1px 3px rgba(0,0,0,0.12), 0 1px 2px  
  rgba(0,0,0,0.24);  
}
```

```
.menu li:hover {  
  background-color: #0099cc;  
}
```

Media query

```
@media only screen and (max-width: 600px) {  
  body {  
    background-color: lightblue;  
  }  
}
```

Breakpoints

```
/* For desktop: */  
.col-1 {width: 8.33%;}  
.col-2 {width: 16.66%;}  
.col-3 {width: 25%;}  
.col-4 {width: 33.33%;}  
.col-5 {width: 41.66%;}  
.col-6 {width: 50%;}  
.col-7 {width: 58.33%;}  
.col-8 {width: 66.66%;}  
.col-9 {width: 75%;}  
.col-10 {width: 83.33%;}  
.col-11 {width: 91.66%;}  
.col-12 {width: 100%;}
```

```
@media only screen and (max-width: 768px) {  
  /* For mobile phones: */  
  [class*="col-"] {  
    width: 100%;  
  }  
}
```

Breakpoints

```
/* For mobile phones: */  
[class*="col-"] {  
    width: 100%;  
}
```

```
@media only screen and (min-width: 600px) {  
    /* For tablets: */  
    .col-s-1 {width: 8.33%;}  
    .col-s-2 {width: 16.66%;}  
    .col-s-3 {width: 25%;}  
    .col-s-4 {width: 33.33%;}  
    .col-s-5 {width: 41.66%;}  
    .col-s-6 {width: 50%;}  
    .col-s-7 {width: 58.33%;}  
    .col-s-8 {width: 66.66%;}  
    .col-s-9 {width: 75%;}  
    .col-s-10 {width: 83.33%;}  
    .col-s-11 {width: 91.66%;}  
    .col-s-12 {width: 100%;}  
}
```

```
@media only screen and (min-width: 768px) {  
    /* For desktop: */  
    .col-1 {width: 8.33%;}  
    .col-2 {width: 16.66%;}  
    .col-3 {width: 25%;}  
    .col-4 {width: 33.33%;}  
    .col-5 {width: 41.66%;}  
    .col-6 {width: 50%;}  
    .col-7 {width: 58.33%;}  
    .col-8 {width: 66.66%;}  
    .col-9 {width: 75%;}  
    .col-10 {width: 83.33%;}  
    .col-11 {width: 91.66%;}  
    .col-12 {width: 100%;}  
}
```

Orientation

```
@media only screen and (orientation: landscape) {  
  body {  
    background-color: lightblue;  
  }  
}
```

Imagens responsivas

```
img {  
  max-width: 100%;  
  height: auto;  
}
```



```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
</head>
<body>

<div class="container">
  <div class="jumbotron">
    <h1>My First Bootstrap Page</h1>
  </div>
  <div class="row">
    <div class="col-sm-4">
      ...
    </div>
    <div class="col-sm-4">
      ...
    </div>
    <div class="col-sm-4">
      ...
    </div>
  </div>
</div>

</body>
</html>
```