

<labmm2></labmm2>

<section>

ua.deca.ntc.2018.2019.t15

</section>

<footer>

helder caixinha | caixinha@ua.pt

</footer>

RWD – CONTEÚDOS - IMAGENS

```
section {  
  width: 90%;  
  margin: auto;  
  border: 8px dotted green;  
  text-align:center;  
}  
img {  
  max-width: 100%;  
  border: 4px solid red;  
}
```

```
<section>  
    
</section>
```



t15_img_RWD.html

RWD – CONTEÚDOS - VÍDEO

Utilização com vídeo...

```
header {  
  position: fixed;  
  top: 0; left: 0; right: 0;  
  text-align: center;  
  border: 8px dotted green;  
}  
video {  
  max-width: 100%;  
  border: 4px solid red;  
}  
h1 {  
  position: absolute;  
  top: 50%; left: 50%;  
  transform: translate(-50%, -50%);  
}
```

<header>

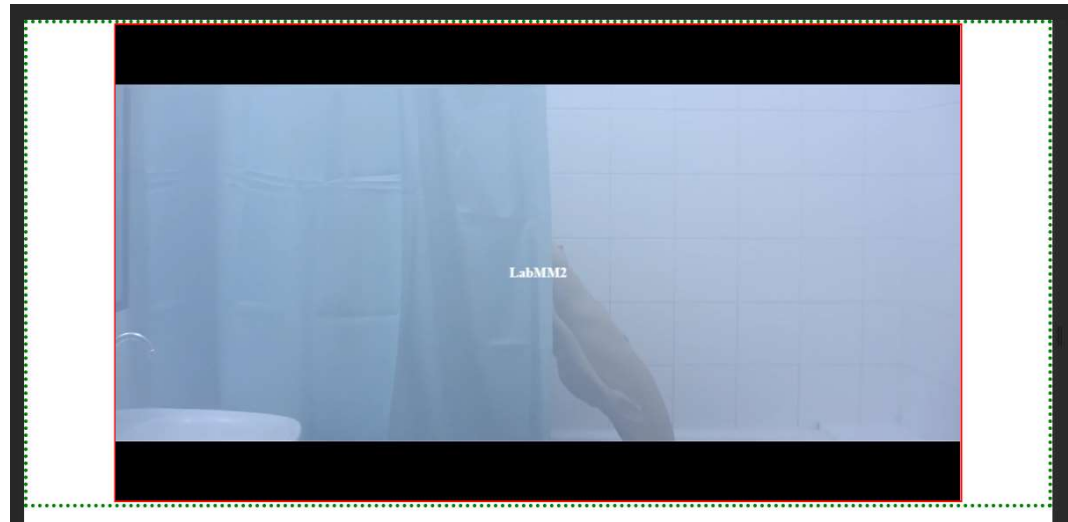
<video autoplay loop muted>

<source src="ZimmerLostYourMind.mp4" type="video/mp4">

</video>

<h1>LabMM2</h1>

</header>



t15_video_RWD.html

RWD – CONTEÚDOS - IMAGENS

```
body {  
  border: 8px solid blue;  
}  
header {  
  width: 80%; height: 40%;  
  background-image: url('ferrari.png');  
  background-repeat: no-repeat;  
  background-size: contain;  
  border: 3px solid red;  
}
```

<header>Scuderia Ferrari</header>

A propriedade **background-size** com o valor **contain** fará com que a imagem de fundo se adapte (sem distorção) à dimensão do header

t15_img_contain.html



height: 15rem;

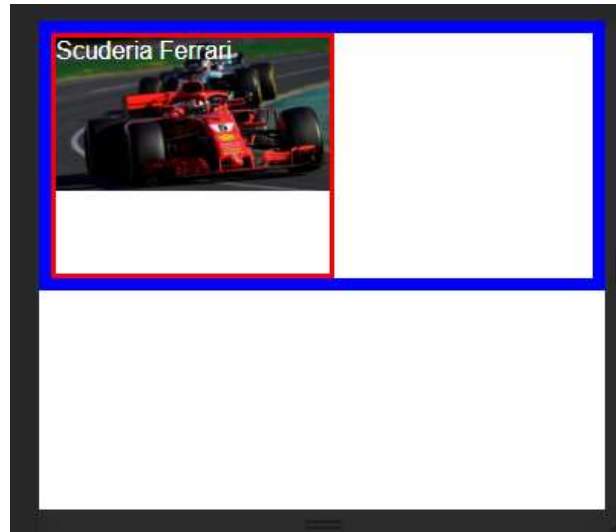


RWD – CONTEÚDOS - IMAGENS

```
body {  
  border: 8px solid blue;  
}  
header {  
  width: 50vw; height: 50vh;  
  background-image: url('ferrari.png');  
  background-repeat: no-repeat;  
  background-size: contain;  
  border: 3px solid red;  
}
```

<header>Scuderia Ferrari</header>

t15_img_contain_vw_vh.html



RWD – CONTEÚDOS - IMAGENS

```
body {  
  border: 8px solid blue;  
}
```

```
header {  
  width: 80vw;  
  height: 40vh;  
  margin: auto;  
  background-image: url('ferrari.png');  
  background-repeat: no-repeat;  
  background-size: cover;  
  border: 0.3rem solid red;  
}
```

<header>Scuderia Ferrari</header>

t15_img_cover_vw_vh.html

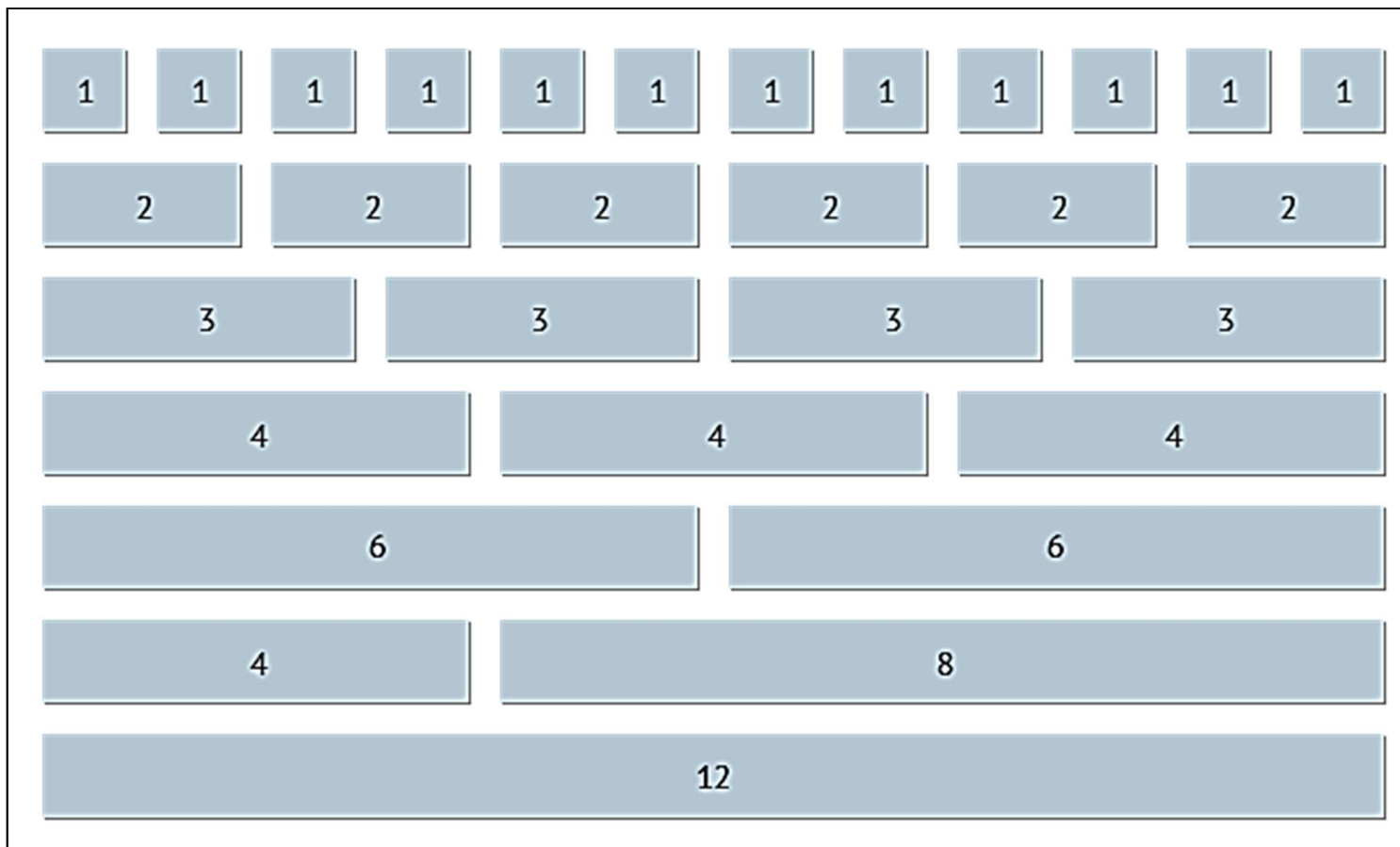
A propriedade **background-size** com o valor **cover** fará com que a imagem preencha o header, sem sofrer distorções. Mas zonas importantes dessa imagem poderão ficar escondidas

Com as media queries podem carregar-se diferentes versões da imagem (que melhor se adaptem às diferentes dimensão do header)



RWD – LAYOUTS EM GRELHA (12 COLUNAS)

Baseados na divisão do viewport em 12 colunas (ex: Bootstrap)



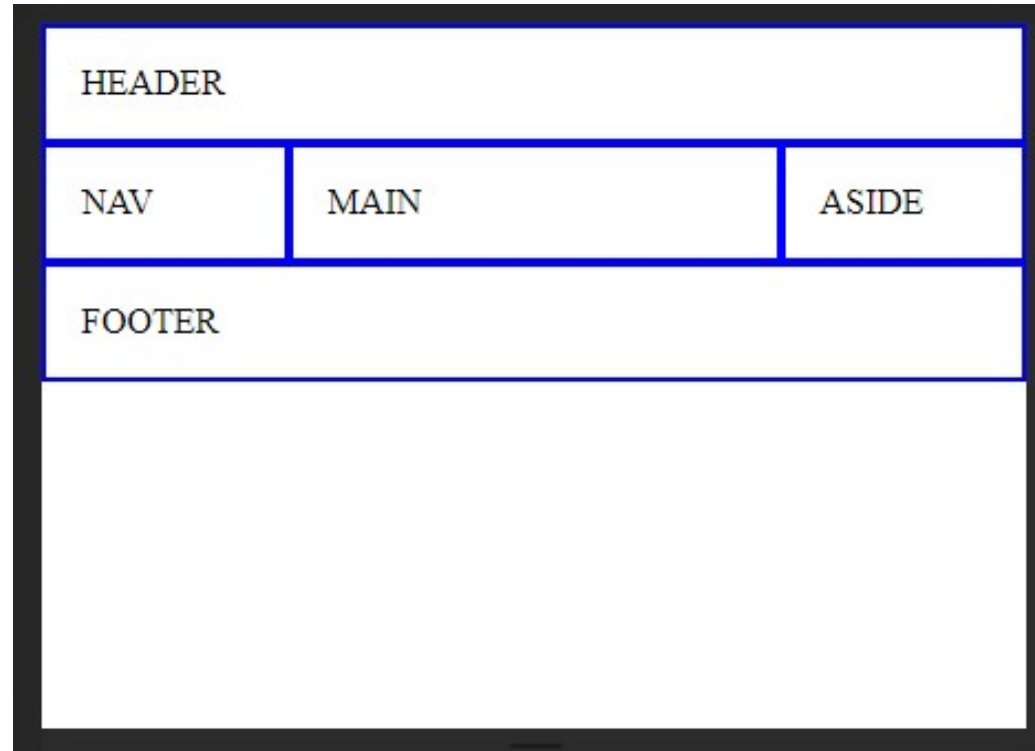
width de uma coluna → $100\%/12 = 8.33\%$

RWD – LAYOUTS EM GRELHA (12 COLUNAS)

```
* {  
  box-sizing: border-box;  
  margin: 0;  
}
```

```
[class*="col-"] {  
  float: left;  
  padding: 1rem;  
  border: 2px solid blue;  
}
```

```
.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%; }
```



t15_grid.html

```
<header class="col-12">HEADER</header>
```

```
<nav class="col-3">NAV</nav>
```

```
<main class="col-6">MAIN</main>
```

```
<aside class="col-3">ASIDE</aside>
```

```
<footer class="col-12">FOOTER</footer>
```


RWD – LAYOUTS EM GRELHA (12 COLUNAS)

Estilos gerais + Media Queries (mobile first)

```
* {  
  box-sizing: border-box;  
  margin: 0;  
}
```

```
[class*="col-"] {  
  float: left;  
  padding: 1rem;  
}
```

Estilos gerais

```
.fundoverde { background-color: green;}  
.fundoazul { background-color: blue;}  
.fundocastanho { background-color: brown;}  
.fundovermelho { background-color: red;}
```

Media Queries

```
/* Extra Small Devices */ 0 599  
@media only screen and (max-width: 599px) {  
  [class*="col-"] { width: 100%; }  
}
```

```
/* Small Devices */ 600  
@media only screen and (min-width: 600px) {  
  .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%; }  
}
```

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

RWD – LAYOUTS EM GRELHA (12 COLUNAS)

Estrutura HTML e aplicação dos estilos

Aplicação das classes (Mobile First) XS-S-M-L-XL

```
<header class="col-s-12 col-m-12 fundoazul">HEADER</header>
```

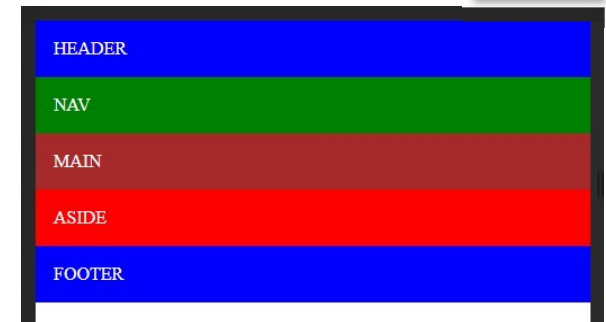
```
<nav class="col-s-4 col-m-3 fundoverde">NAV</nav>
```

```
<main class="col-s-8 col-m-6 fundocastanho">MAIN</main>
```

```
<aside class="col-s-8 col-m-3 fundovermelho">ASIDE</aside>
```

```
<footer class="col-s-4 col-m-12 fundoazul">FOOTER</footer>
```

XS



S



M

