

INSTITUTO MAUÁ DE TECNOLOGIA



CSS Grid

Linguagens 2

Prof. Tiago Sanches da Silva

CSS Grid

CSS Grid Layout

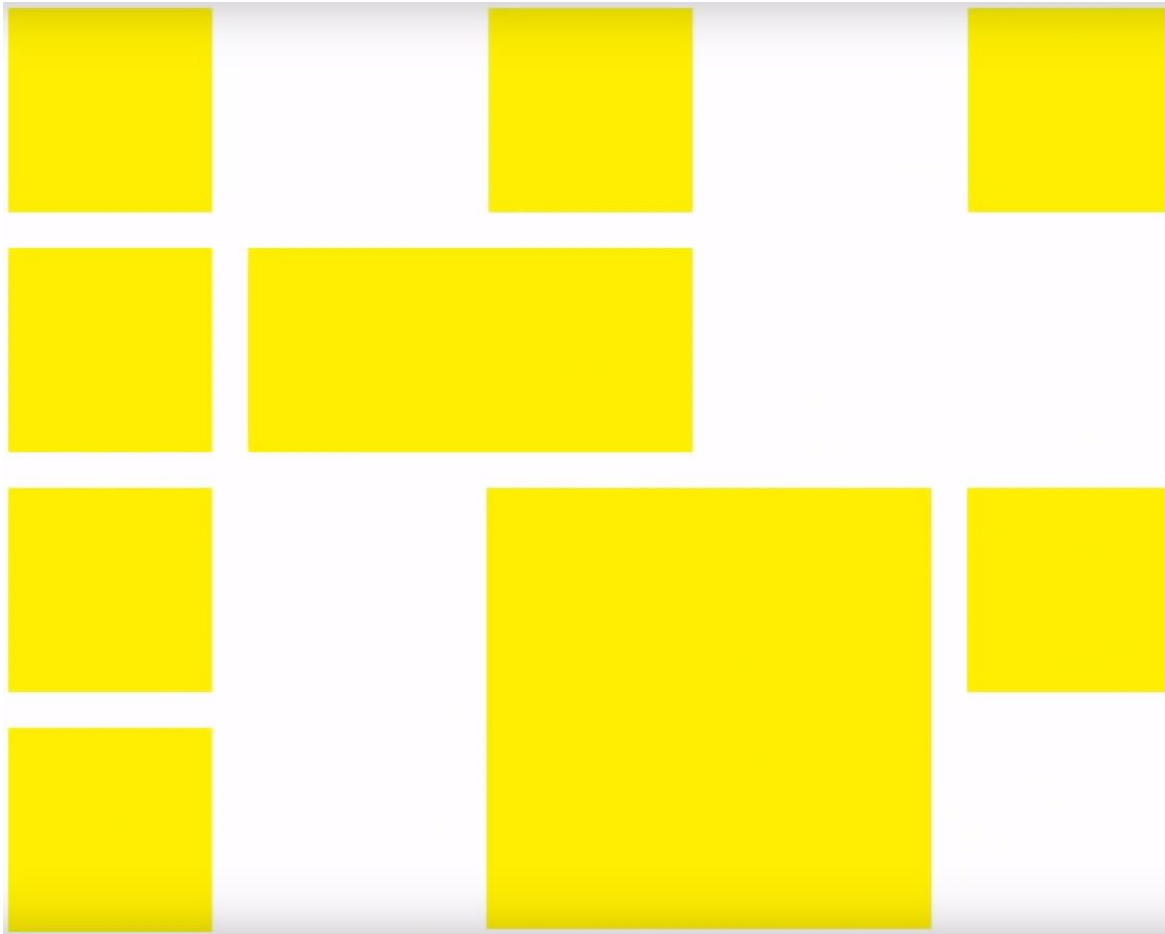
CSS Grid Layout introduz um sistema bi-dimensional de grid (literalmente "grades") para CSS. Grids podem ser usados para o design de layouts de grandes seções de uma webpage, assim como de pequenos elementos de interface.

```
.grid1 {  
  display: grid;  
  grid-template-columns: 200px 300px 100px;  
  grid-template-rows: 200px 300px 100px;  
  grid-gap: 20px;  
}
```

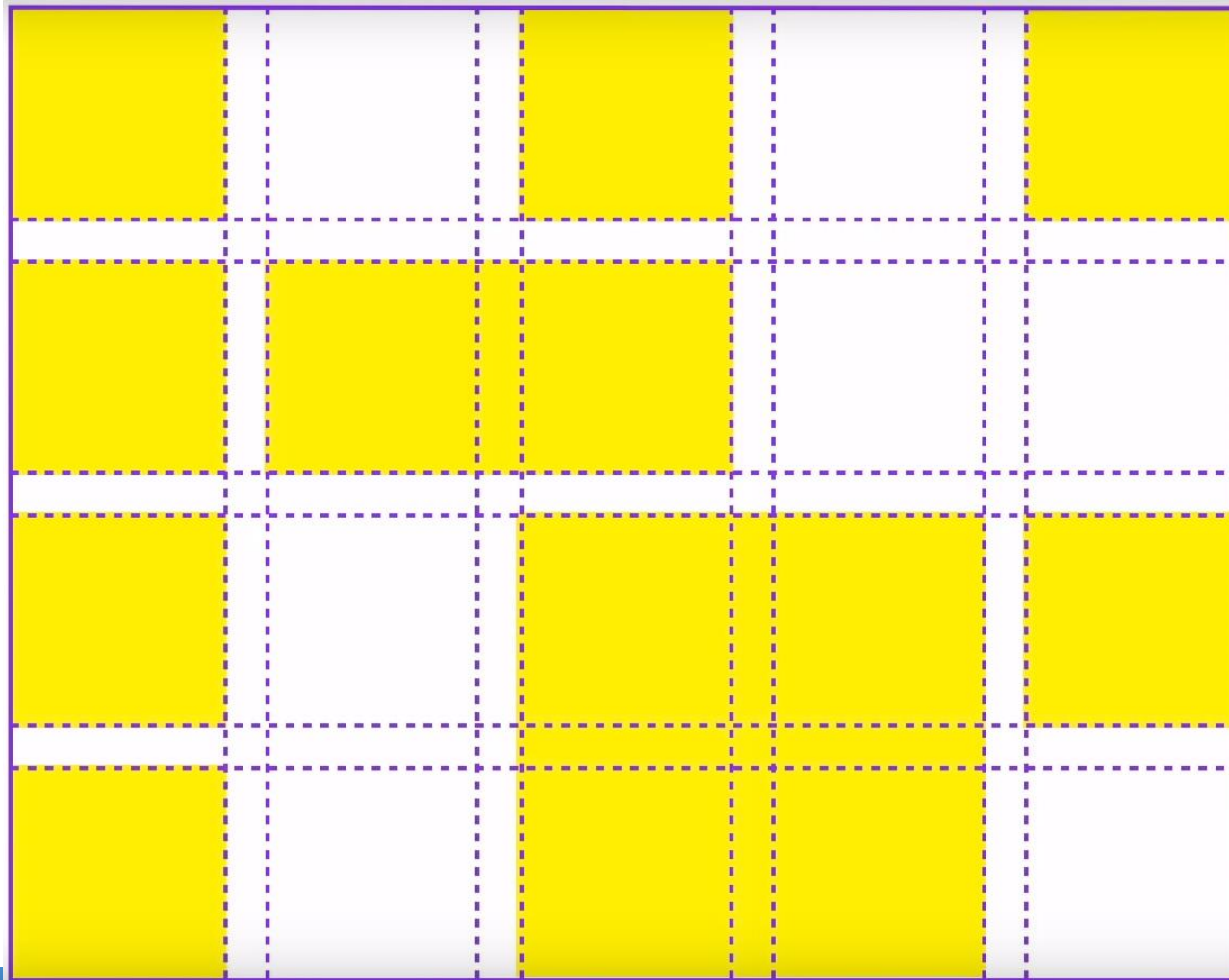


CSS Grid Layout

Um rápido exemplo de CSS que contém duas regras:

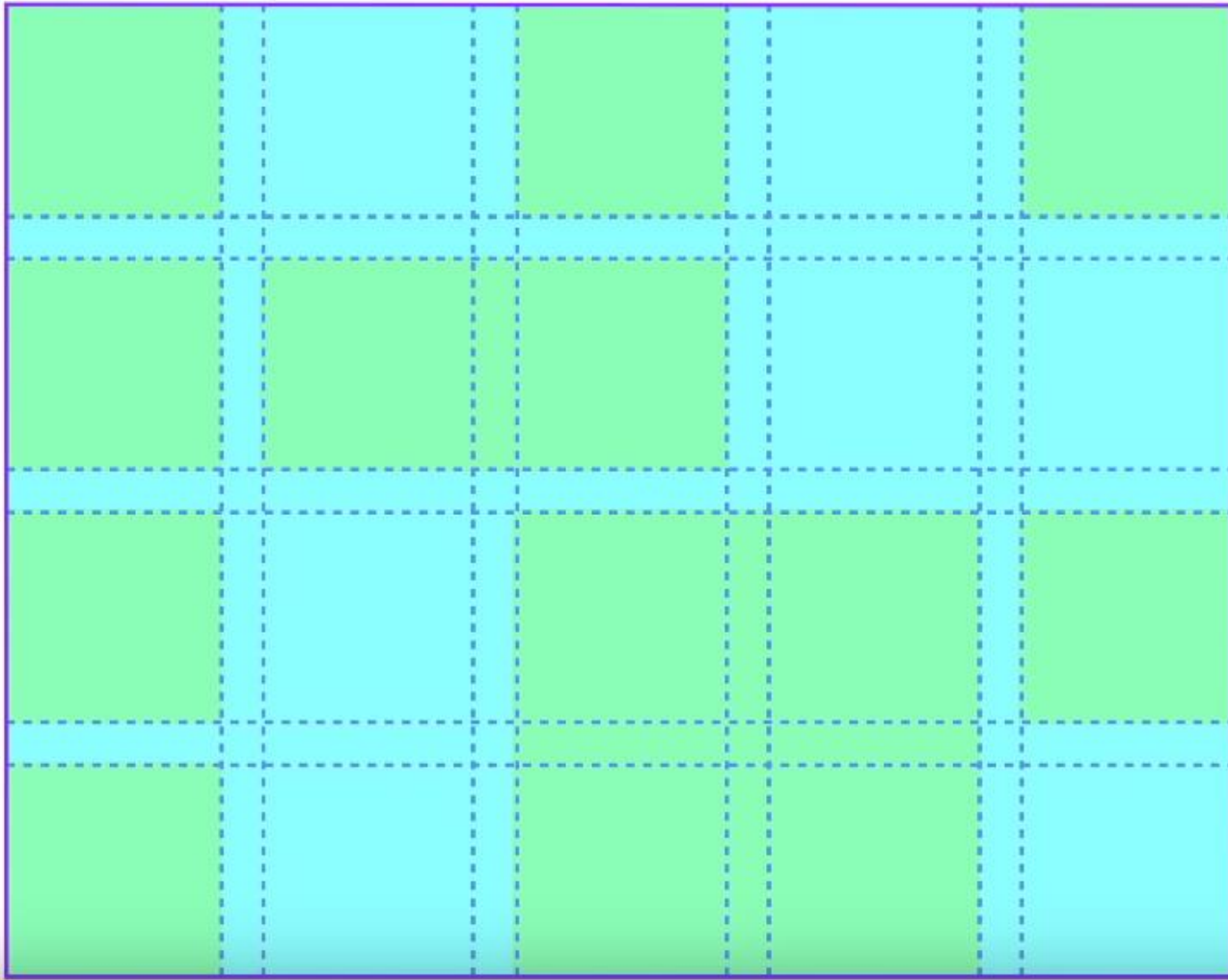


CSS Grid Layout



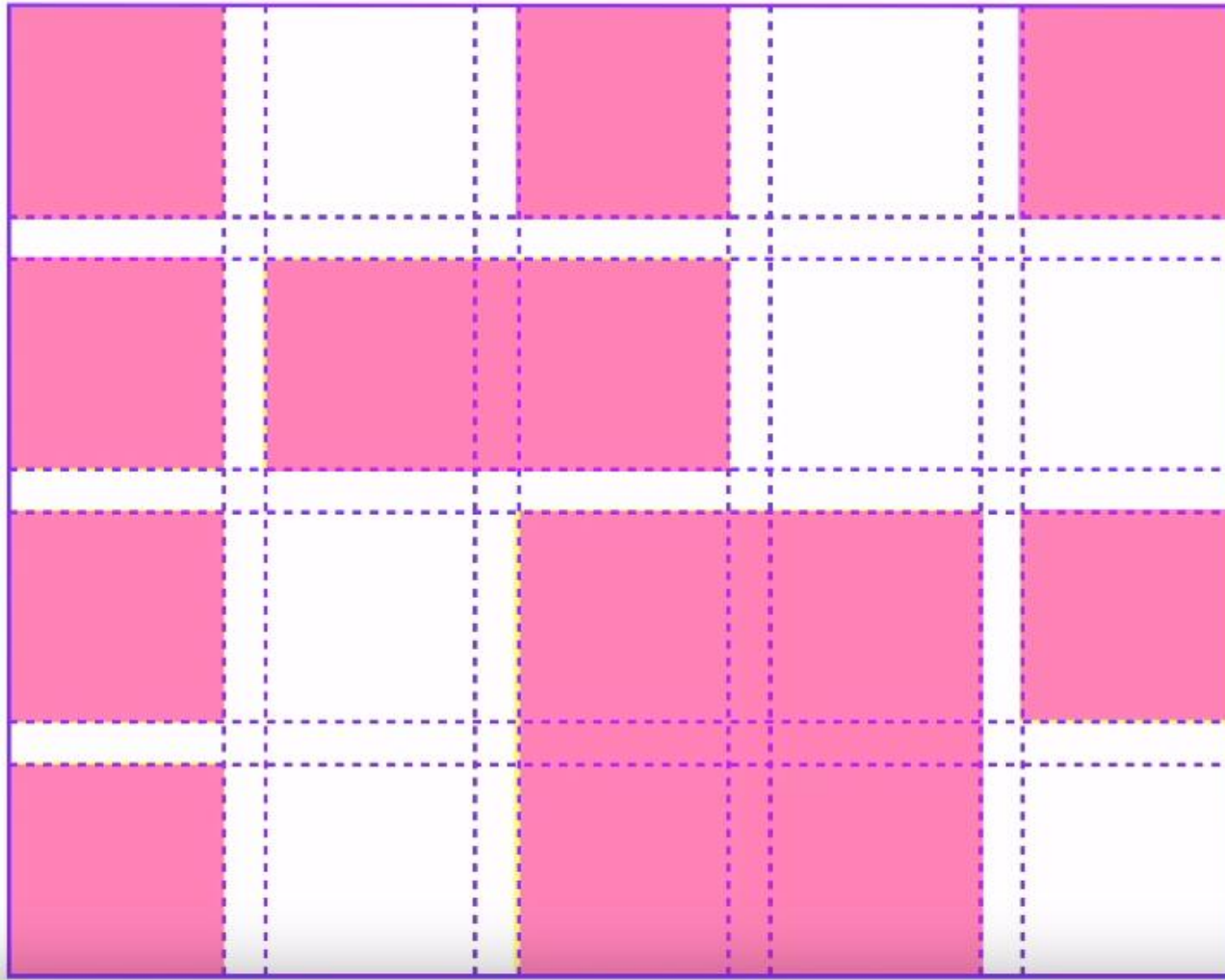
Container

Grid Container



Items

Grid Items



Exemplo simples

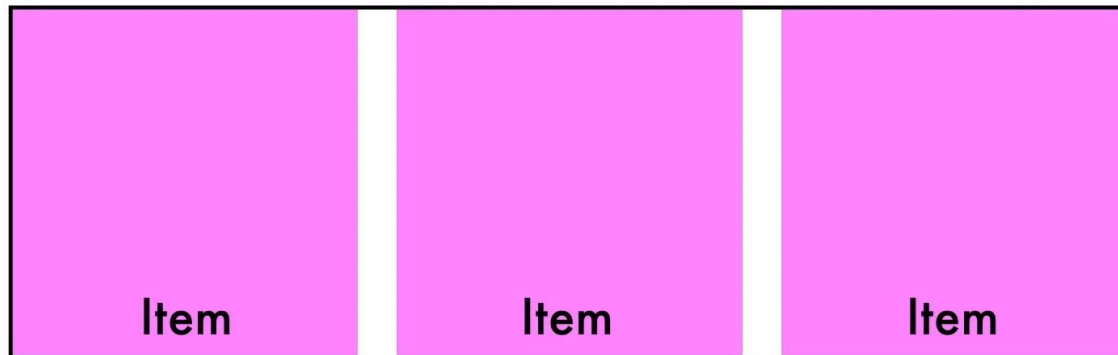
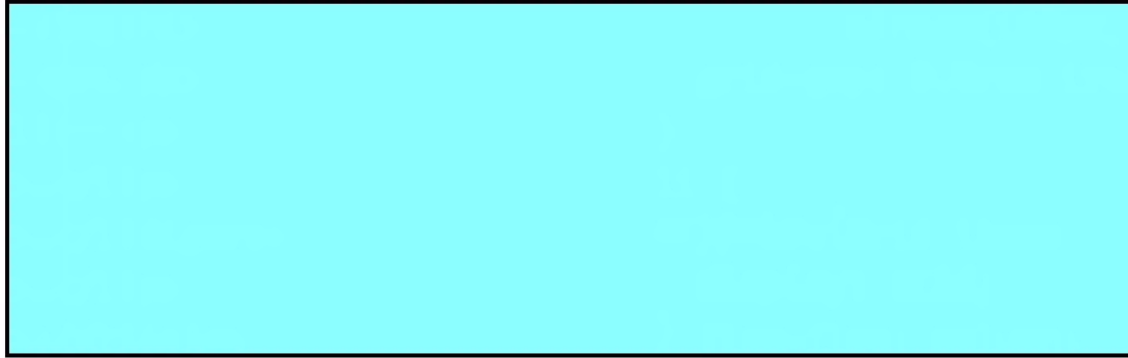
```
<body>
├── <header>...</header>
├── <main>
│   └── <article>
│       ├── <h1>
│       ├── <p>
│       ├── <p>
│       ├── <p>
│       ├── <figure>
│       └── <p>
│   </article>
├── </main>
├── <aside>...</aside>
└── <footer>...</footer>
</body>
```

```
body {
    display: grid;
}
```

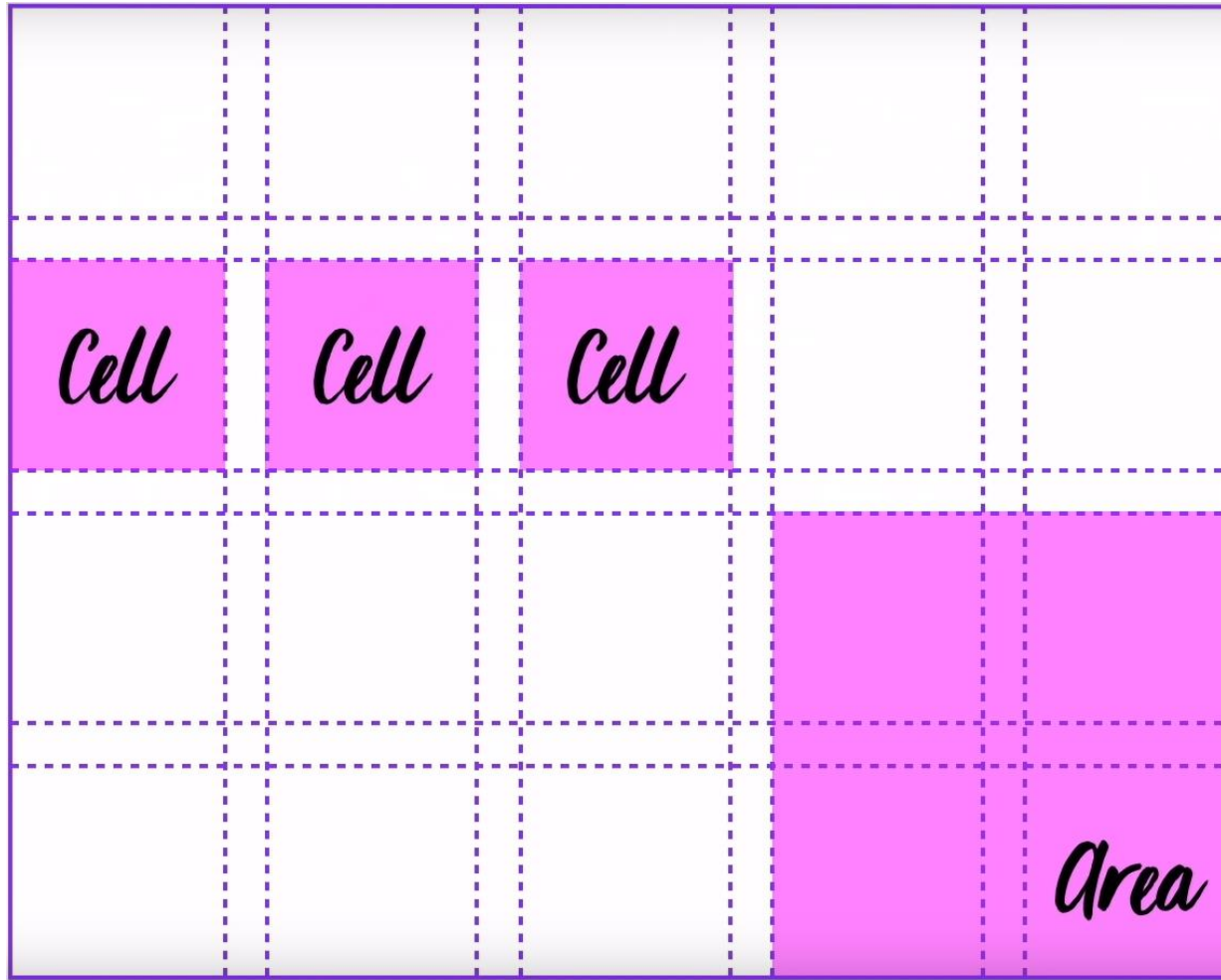
```
article {
    display: grid;
}
```


Principais conceitos

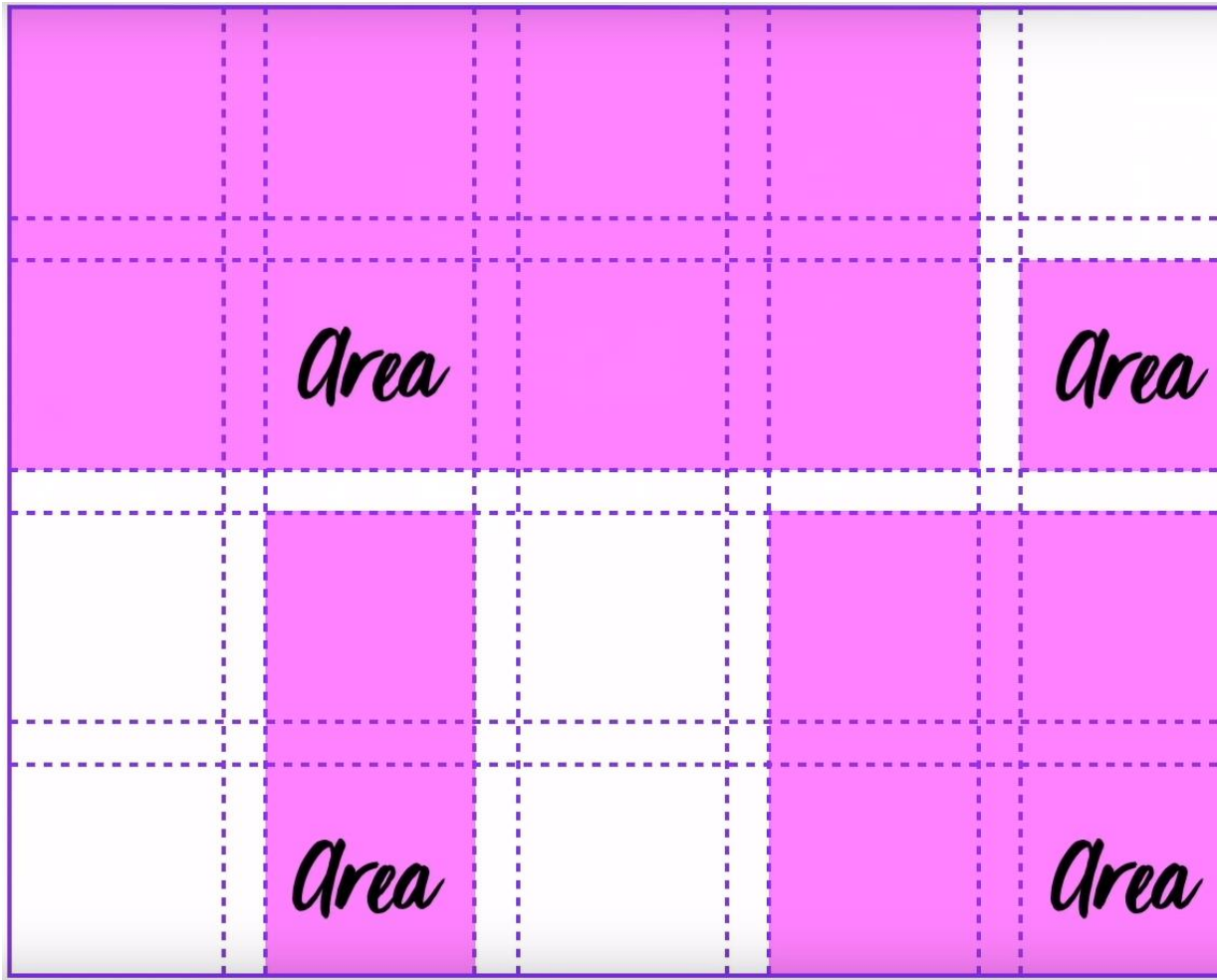
Container



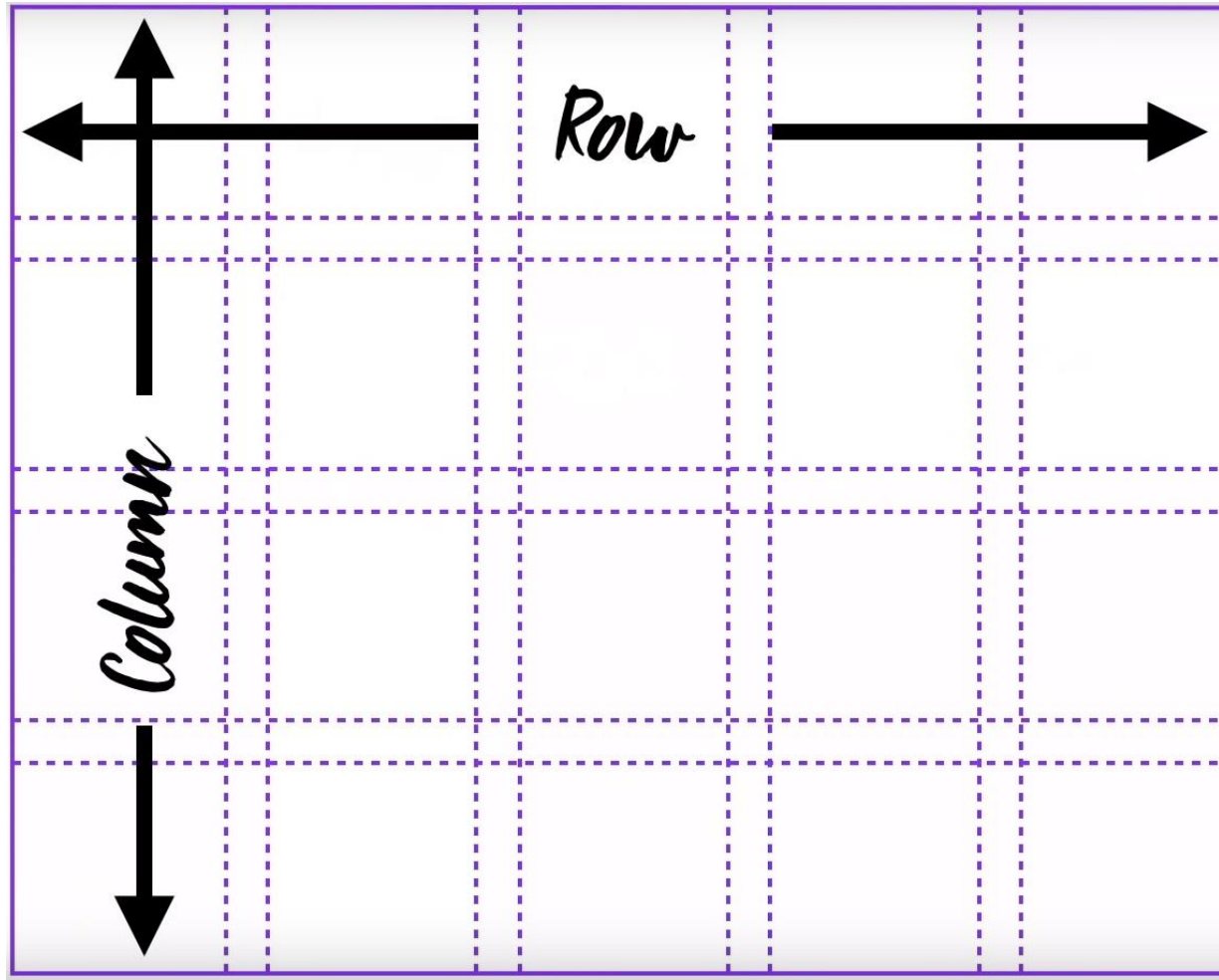
Principais conceitos



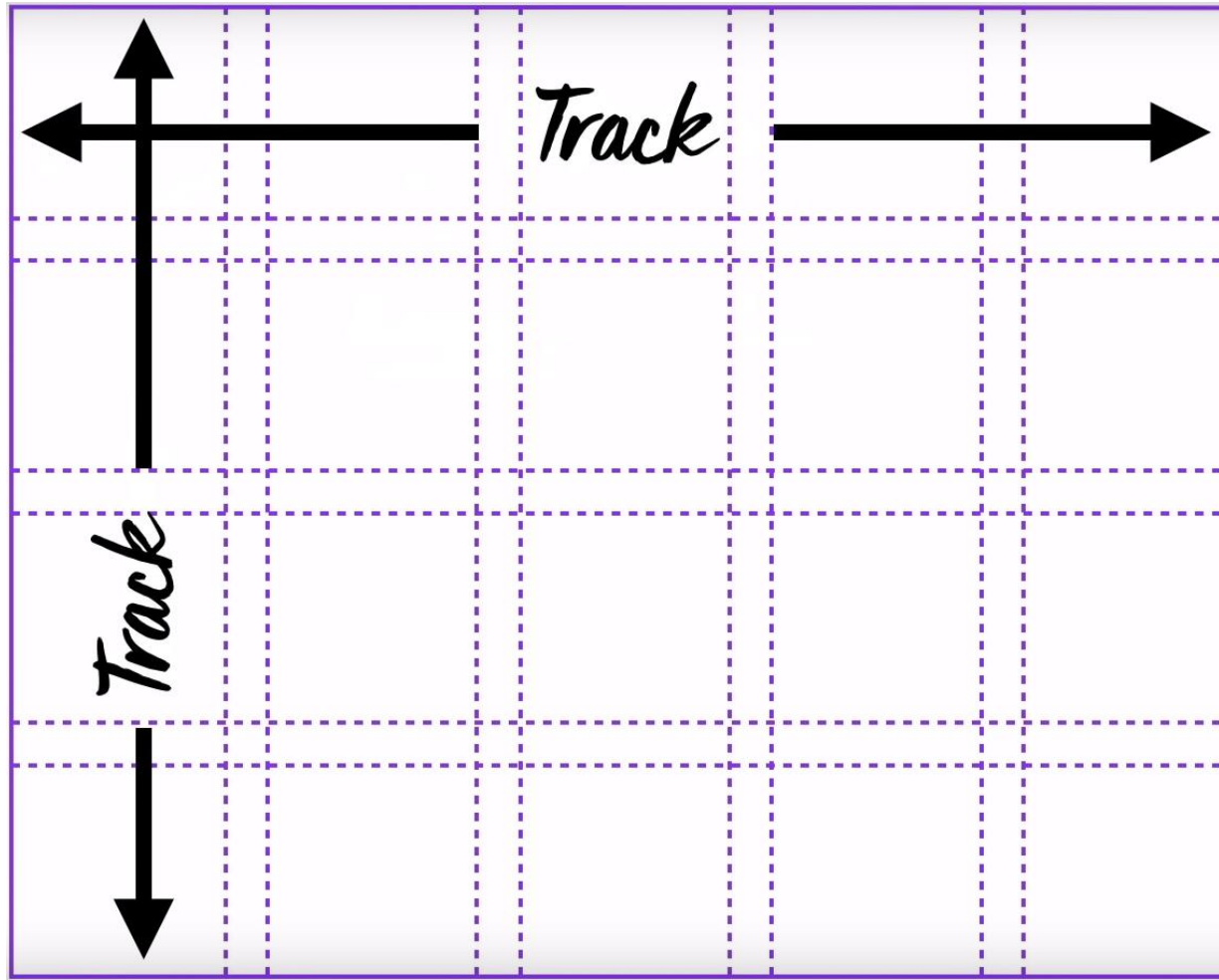
Principais conceitos



Principais conceitos



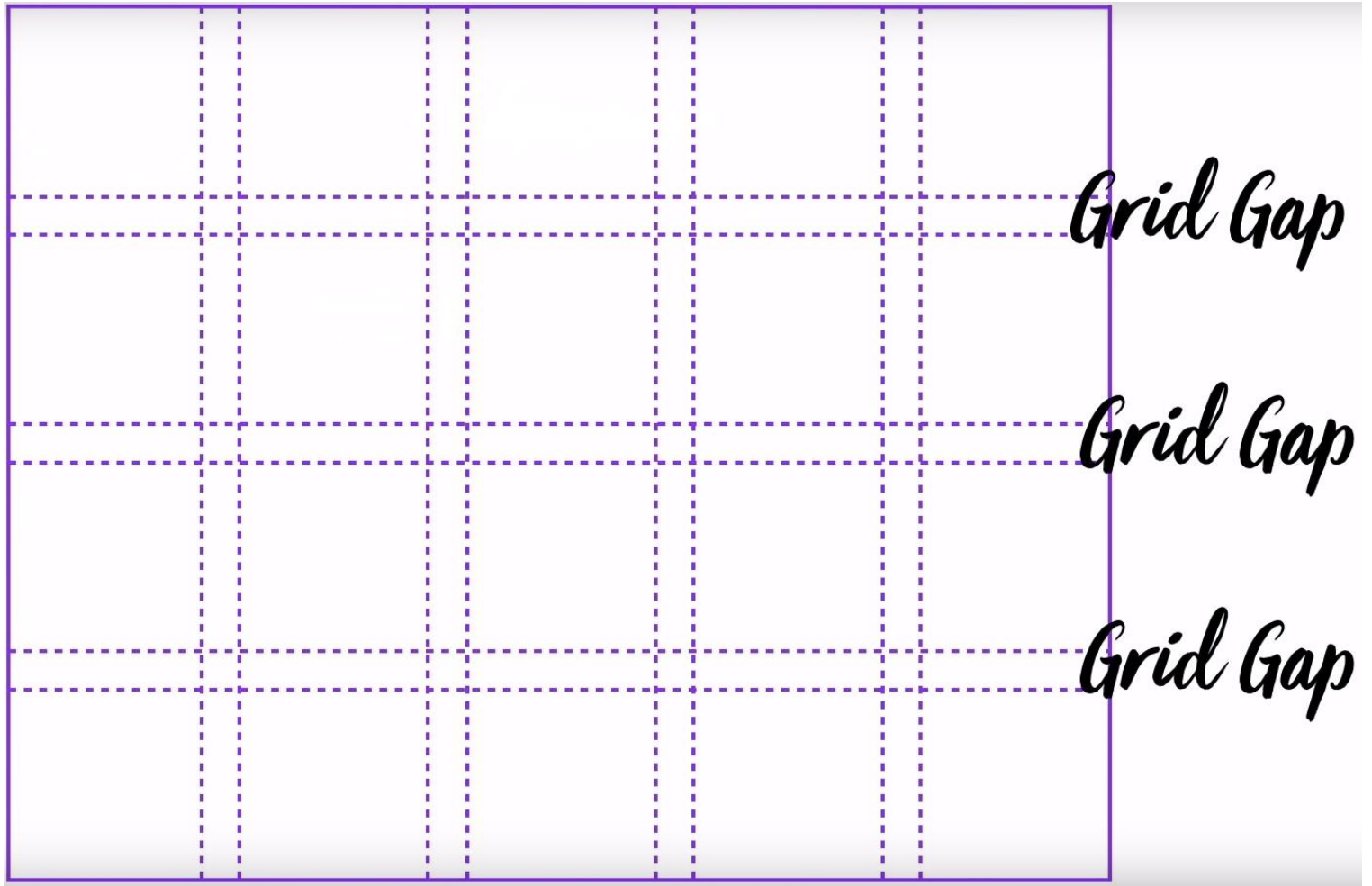
Principais conceitos



Principais conceitos

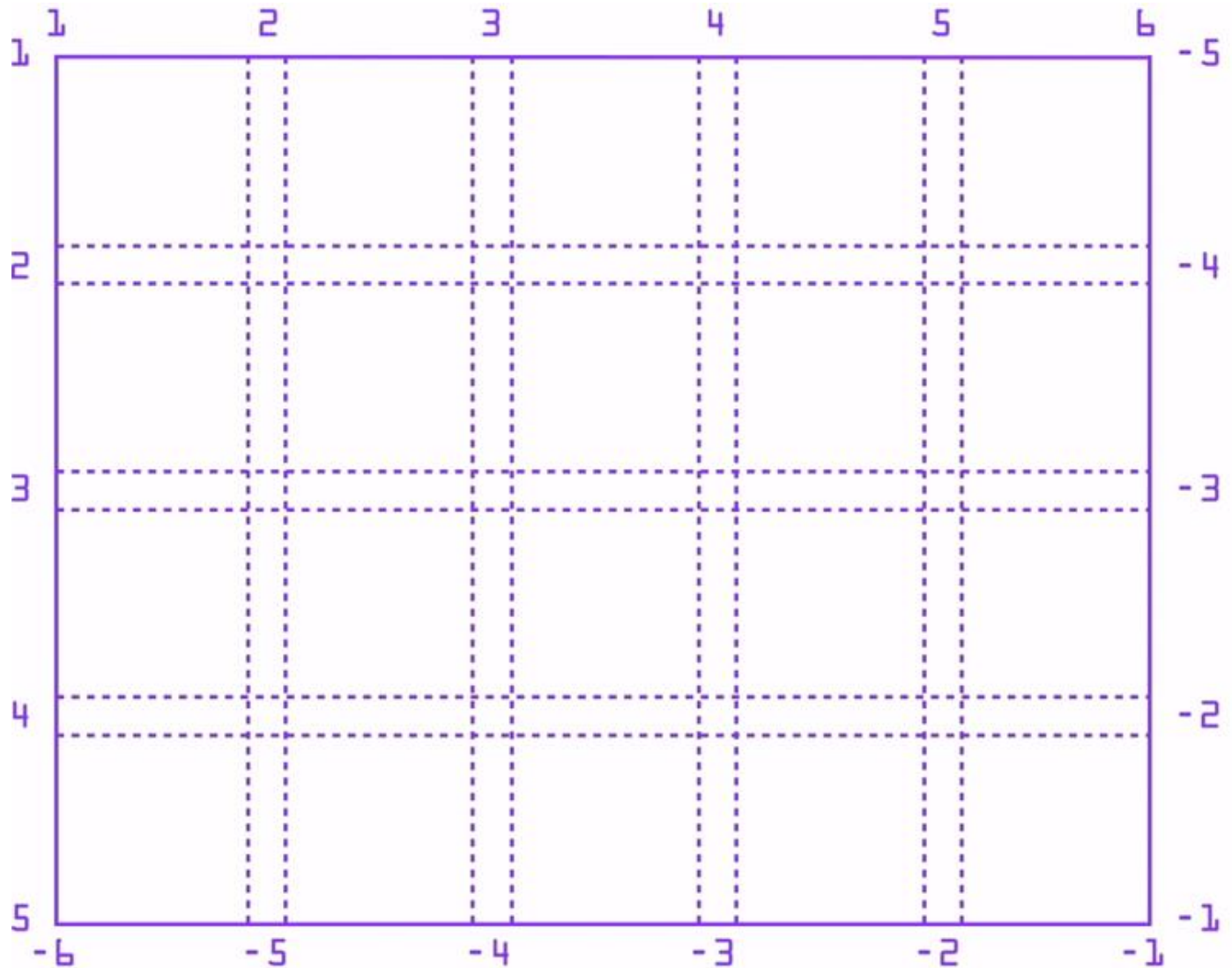


Principais conceitos

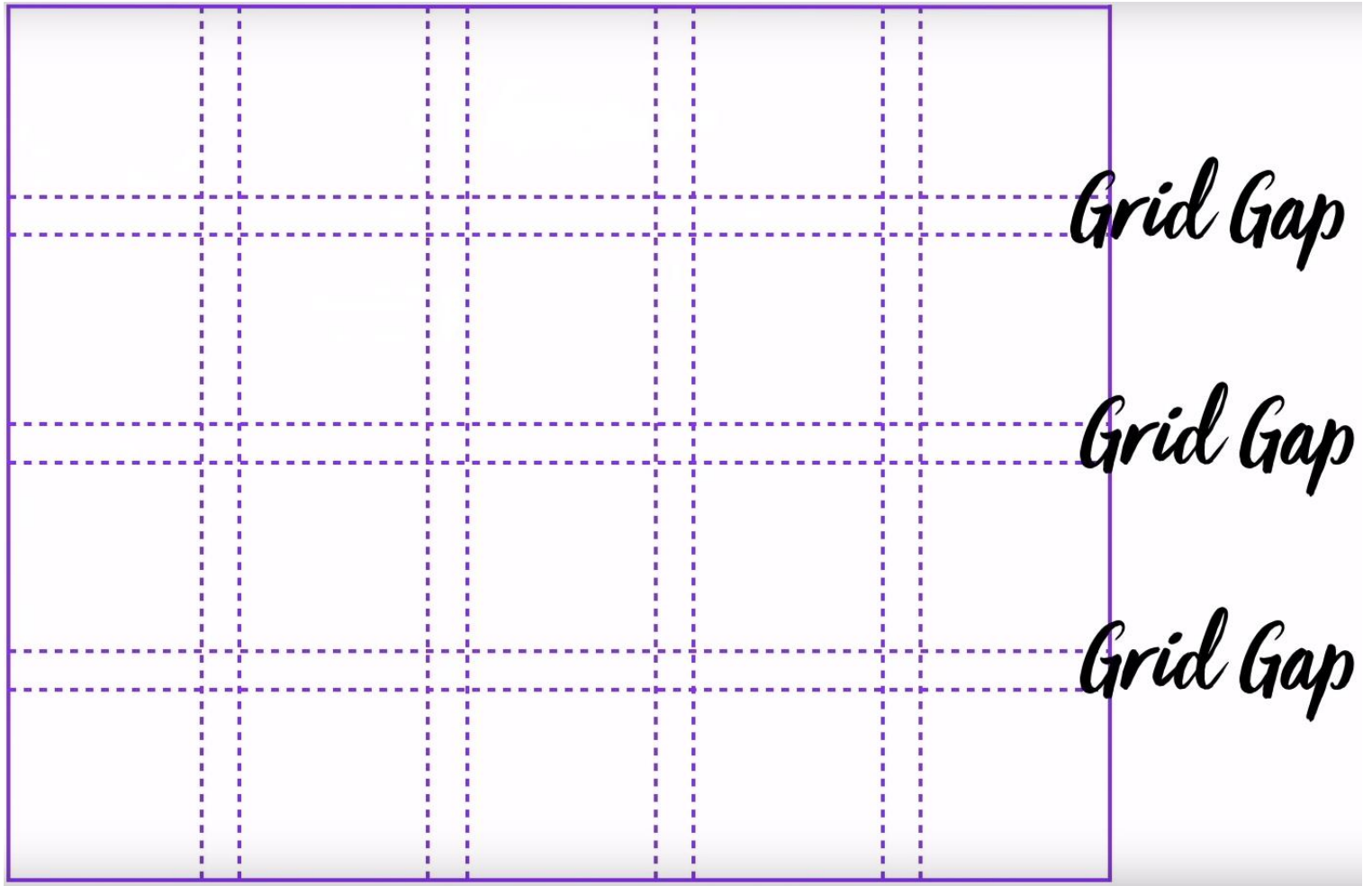


Principais conceitos

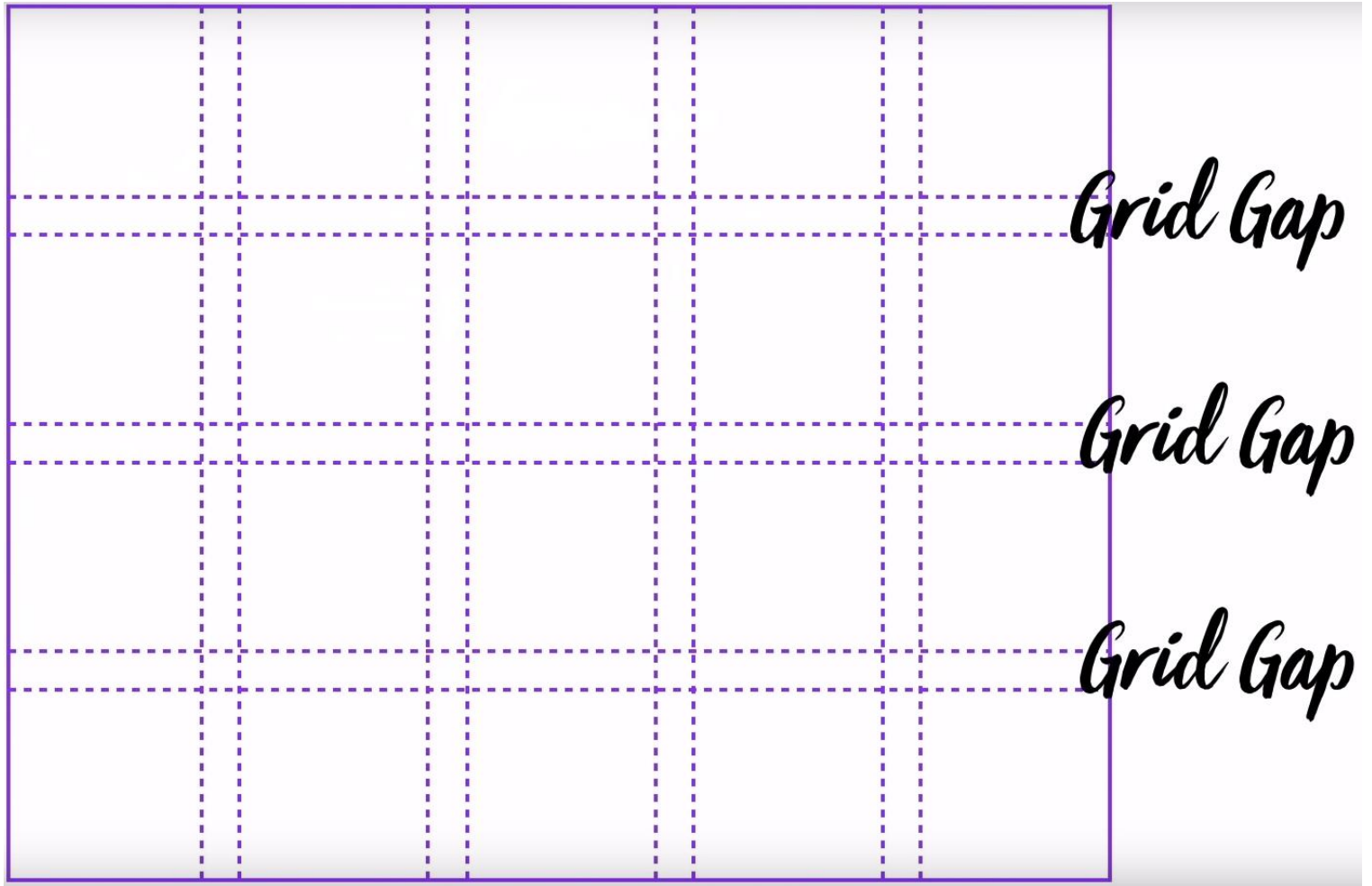
Número das linhas



Principais conceitos

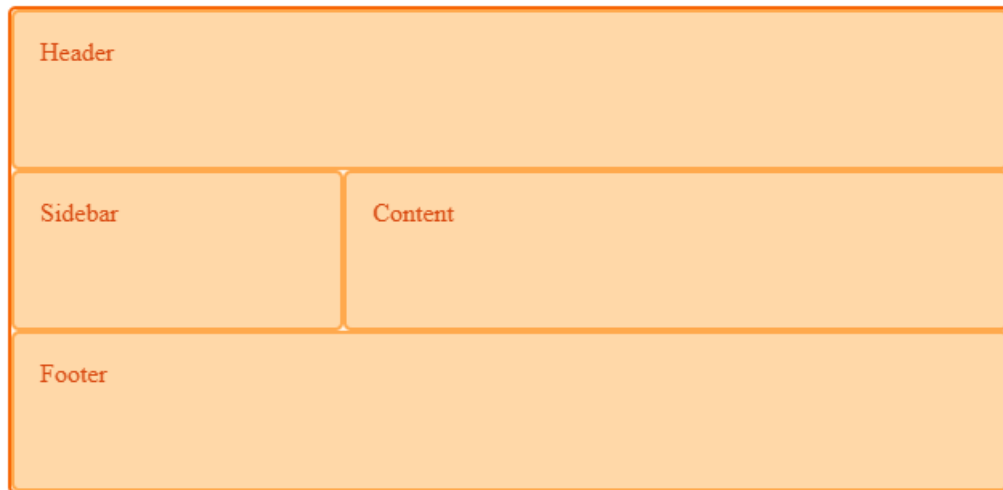


Principais conceitos



Nomeando áreas do Grid

Nomeando áreas do grid



```
<div class="wrapper">
  <div class="header">Header</div>
  <div class="sidebar">Sidebar</div>
  <div class="content">Content</div>
  <div class="footer">Footer</div>
</div>
```

```
.wrapper {
  display: grid;
  grid-template-columns: repeat(9, 1fr);
  grid-auto-rows: minmax(100px, auto);
  grid-template-areas:
    "hd hd hd hd  hd  hd  hd  hd  hd"
    "sd sd sd main main main main main main"
    "ft ft ft ft  ft  ft  ft  ft  ft";
}
```

```
.header {
  grid-area: hd;
}
.footer {
  grid-area: ft;
}
.content {
  grid-area: main;
}
.sidebar {
  grid-area: sd;
}
```

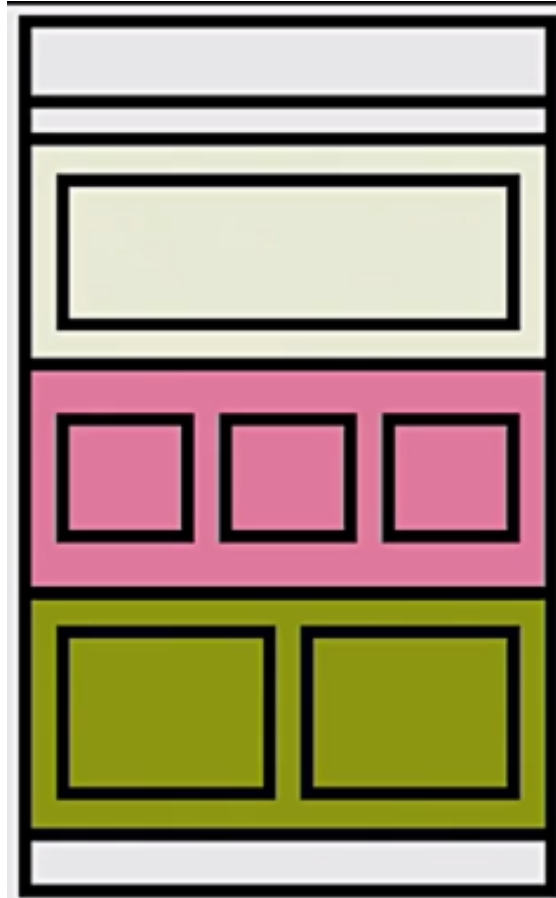
Referência Completa:

[https://developer.mozilla.org/en-](https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Grid_Layout/Grid_Template_Areas)

[US/docs/Web/CSS/CSS_Grid_Layout/Grid_Template_Areas](https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Grid_Layout/Grid_Template_Areas)

Design Atual

Sites atualmente



<https://www.warnerbros.com/>

Exemplos

Exemplos

CSS Grid + Media Queries

<https://gridbyexample.com/examples/example13/>

Célula como container para outro Grid

<https://gridbyexample.com/examples/example21/>

minmax + auto-fill (o poder da responsividade)

<https://gridbyexample.com/examples/example28/>

auto-fill vs auto-fit

<https://gridbyexample.com/examples/example37/>

CS Grid + Flexbox

<https://labs.jensimmons.com/2017/03-009.html>

Guias e materiais completos

Referências e Leituras Sugeridas

CSS Grid Completo:

- <https://css-tricks.com/snippets/css/complete-guide-grid/>
- <https://www.origamid.com/projetos/css-grid-layout-guia-completo/>
- https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Grid_Layout/Basic_Concepts_of_Grid_Layout

CSS Flexbox completo:

- <https://css-tricks.com/snippets/css/a-guide-to-flexbox/>
- https://developer.mozilla.org/pt-BR/docs/Learn/CSS/CSS_layout/Flexbox

Media-Queries:

- https://developer.mozilla.org/pt-BR/docs/Web/Guide/CSS/CSS_Media_queries

Sugestões!

Leituras sugeridas (incríveis)

Jen Simmons (especialista em layout):

- <http://jensimmons.com/presentation/modern-layouts-getting-out-our-ruts>
- <http://jensimmons.com/>

CSS-Tricks:

- <https://css-tricks.com/guides/>

Especificação:

- <https://www.w3.org/TR/css-grid-1/>

Tutorial bem completo:

- <https://www.chiefdesign.com.br/css-grid-layout/>
- <https://gridbyexample.com/learn/>

Exercícios

Exercícios

Jen Simmons (especialista em layout):

- <https://labs.jensimmons.com/2017/workshop/>

Perguntas?