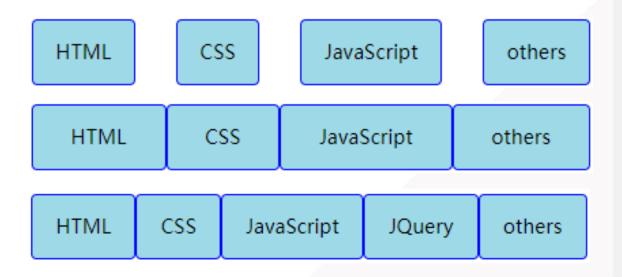
Web THIS

弹性盒子概述

旦 概述

弹性盒子布局 Flexbox Layout



元素可以

- ——拉抻以填充额外的空间
- ——收缩以适应更小的空间



Flexbox 可以解决如下问题

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Lorem ipsum

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□ 概述

Flexbox 可以解决如下问题



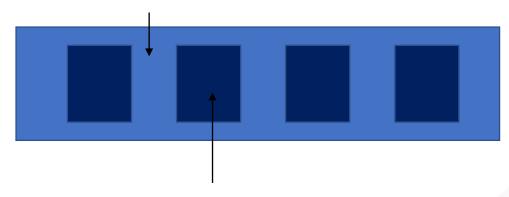


自动占据剩余空间

旦 弹性盒子组成

弹性盒子:一维布局 按行水平布局、按列垂直布局

弹性容器 (Flex Container)



弹性元素 (Flex Item)





旦 弹性盒子样式



flex-flow

弹性容器 (Flex Container)

display: flex

flex-direction

flex-wrap

justify-content

align-items

align-content

弹性元素 (Flex Item)

flex

flex-grow

flex-shrink

flex-basis

order

align-self

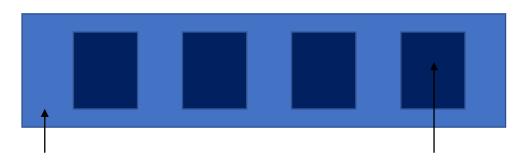
正图制满样

Web THIS

弹性盒子样式



旦 弹性盒子样式



弹性容器 (Flex Container)

弹性元素 (Flex Item)

display: flex

flex-direction

flex-flow

flex-wrap

justify-content

align-items

align-content

WEB 開開

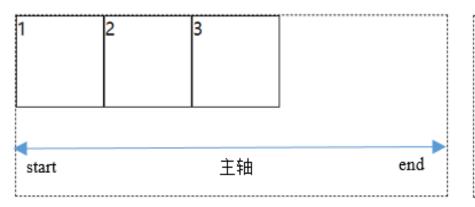
□ 弹性容器样式

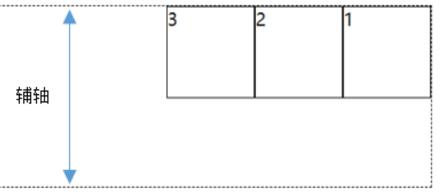
1. display属性

定义弹性容器

□ 弹性容器样式

2. flex-direction属性——行布局

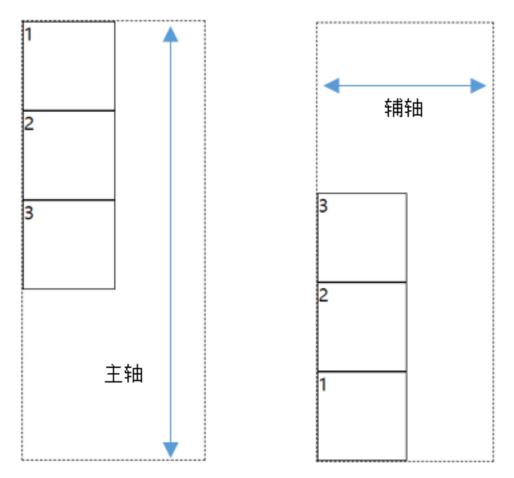




flex-direction: row

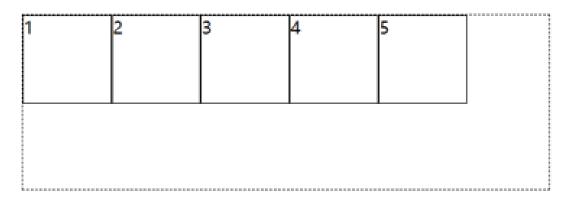
flex-direction: row-reverse

2. flex-direction属性——列布局

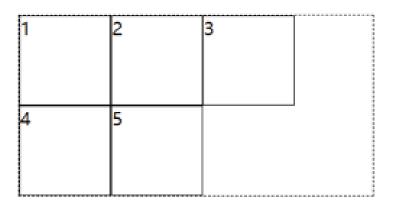


flex-direction: column flex-direction: column -reverse

3. flex-wrap 属性



flex-wrap: nowrap



4 5 1 2 3

flex-wrap: wrap

flex-wrap: wrap-reverse



3. flex-wrap 属性

| Lorem ipsum dolor | | | | | | | |
|---|--|--|--|--|--|--|--|
| Lorem ipsum dolor sit amet. Lorem ipsum, dolor sit amet dolor sit amet eller sit amet eller sit amet eller sit amet eller sit | Lorem ipsum dolor sit amet. Lorem ipsum, dolor sit amet dolor sit amet elit. Hic culpa iure aut? Lorem ipsum, dolor sit amet culpa iure aut? | | Lorem ipsum dolor sit amet. Lorem ipsum, dolor sit amet dolor sit amet edilor sit amet edilor sit amet adipisicing elit. Hic culpa iure aut? | Lorem ipsum dolor sit amet. Lorem ipsum, dolor sit amet dolor sit amet elit. Hic culpa iure aut? Lorem ipsum, dolor sit amet culpa iure aut? | Lorem ipsum Lorem ipsum, dolor sit amet consected adjpsiscing elit. Hic culpa iure aut? Lorem ipsum, dolor sit amet consectetur adipsiscing elit. Hic culpa iure aut? Lorem ipsum, dolor sit amet consectetur adipsiscing elit. Hic culpa iure aut? Lorem ipsum, dolor sit amet consectetur adipsiscing elit. Hic culpa iure aut? Lorem ipsum, dolor sit amet consectetur adipsiscing elit. Hic culpa iure aut? uppa iure aut? | | |

flex-wrap: nowrap

| Lorem ipsum | Lorem ipsum | Lorem ipsum | |
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| Lorem ipsum, dolor sit amet consectetur | Lorem ipsum dolor sit amet. Lorem ipsum, dolor sit amet consectetur adipisicing elit. Hic culpa iure aut? Lorem ipsum, dolor sit amet consectetur adipisicing elit. Hic culpa iure aut? | Lorem ipsum, dolor sit amet consectetur adipisicing elit. Hic culi iure aut? Lorem ipsum, dolor sit amet consectetur adipisicing elit. Hic culi iure aut? Lorem ipsum, dolor sit amet consectetur adipisicing elit. Hic culi iure aut? Lorem ipsum, dolor sit amet consectetur adipisicing elit. Hic culi iure aut? Lorem ipsum, dolor sit amet consectetur adipisicing elit. Hic culi iure aut? | |

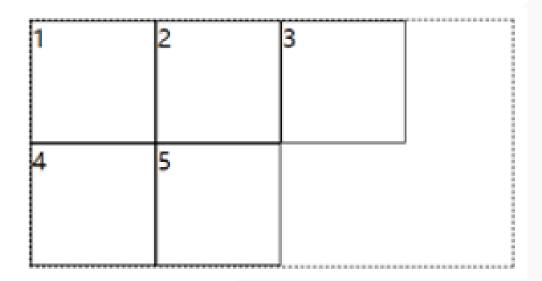
flex-wrap: wrap

□ 弹性容器样式

4. flex-flow属性

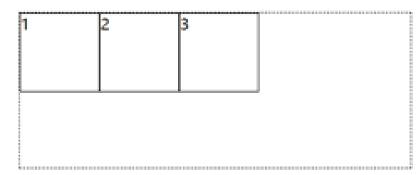
flex-flow: flex-direction flex-wrap

flex-flow: row wrap;

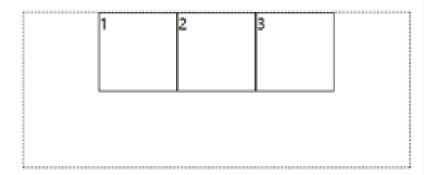


5. justify-content属性 元素在主轴上的对齐方式

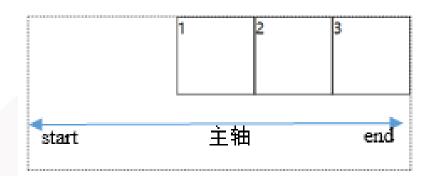
justify-content: flex-start



justify-content: center



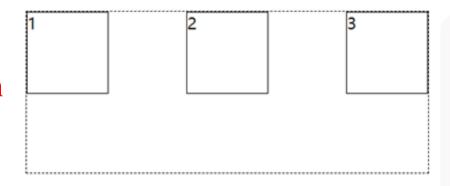
justify-content: flex-end





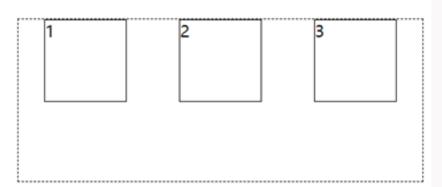
5. justify-content属性 元素在主轴上的对齐方式

justify-content: space-between



justify-content: space-around





6. align-items属性

元素在辅轴上的对齐方式

align-items: flex-start

1 2 3

align-items: center

1 2 3

align-items: flex-end

1 2 3



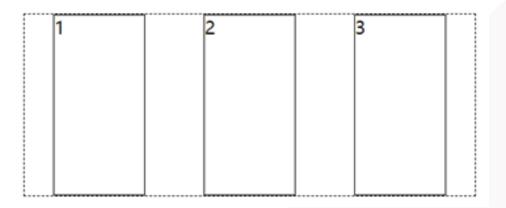
□ 弹性容器样式

6. align-items属性

元素在辅轴上的对齐方式

align-items: stretch

注意: 去掉元素高度



```
.flex-container{
       display: flex;
       flex-direction:row;
       justify-content:space-around;
       align-items:stretch;
                                      .flex-item{
                                                   width: 100px;
       width: 500px;
                                                   border: 1px solid;
       height: 200px;
                                                   font-size: 20px;
       border: 1px dashed;
```

正時間擺井塔

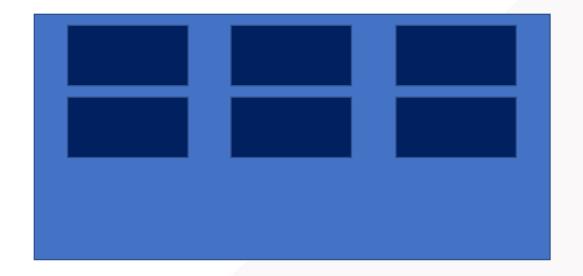
□ 弹性容器样式

7. align-content属性 设置多行元素在容器中的整体对齐方式

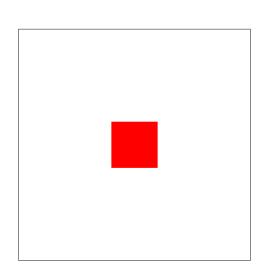
align-content: flex-start | flex-end | center

space-between | space-around | stretch

只有一行或者一列,该属性不起作用



旦 弹性盒子布局练习



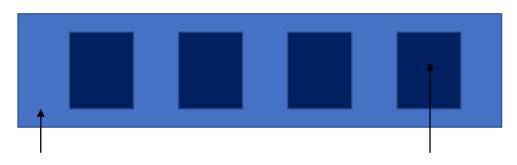
```
<div class="flexbox">
    <div class="flexitem">
        </div>
    </div>
```

Mego Mego

弹性元素样式



旦 弹性盒子样式



弹性容器 (Flex Container)

弹性元素 (Flex Item)

flex-grow
flex-shrink flex
flex-basis
order
align-self

设制排析

```
<div class="flex-container">
    <div class="flex-item">1</div>
    <div class="flex-item">2</div>
    <div class="flex-item">3</div>
</div>
 .flex-item{
       样式添加在这里
```

1. flex-grow属性

元素被拉大的比例,按比例分配容器剩余空间

- (1) 默认值为0: 元素不占用剩余空间
- (2) 取值为n: 元素占据剩余空间若干份中的n

份

```
div:nth-child(3){
                       div:nth-child(1){
                                                  flex-grow:2;
.flex-container{
                          flex-grow:1;
    display: flex;
    flex-direction:row
    align-items:stretch;
.flex-item{
    border: 1px solid;
                                  div:nth-child(2){
                                   flex-grow:1;
      未规定width,height
                                1: 1: 2分配剩余空间
```

设制排析

2. flex-shrink属性

元素被压缩的比例

默认为1,表示弹性元素默认等比例压缩

0则表示不压缩

3. flex-basis属性

元素在主轴上的默认尺寸,其优先级高于width属性。

```
.flex-container{
```

display: flex; /*弹性容器*/

width: 50%;

TEBAIIM FY

}

```
.flex-item{
       flex-basis: 120px;
       border: 1px solid;
       font-size: 20px;
div:nth-child(1){
       flex-shrink:0;
                             不压缩
                                     压缩1 压缩2
div:nth-child(2){
       flex-shrink:1;
div:nth-child(3){
       flex-shrink:2;
```

证据期據投資



4. flex属性

flex: flex-grow flex-shrink flex-basis;

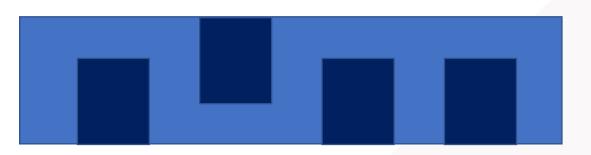
5. order属性

子元素在弹性容器中的排列顺序,数值越小排名越靠前

LIB HIJHER Y

6. align-self属性

单个弹性元素在辅轴上的对齐方式, align-items是全部元素 align-self: auto | flex-start | flex-end | center | baseline | stretch



旦 弹性盒子布局练习

Web前端开发

HTML

超文本标记语言,用于构建网页结构,定义网页包括的内容。

CSS

层叠样式表,用于构建网页布局、外观,美化页面。

JavaScript

JavaScript,脚本语言,用于构建网页行为,与用户进行交互,使用户获得更好的体验。

弹性盒子flexbox 一维布局

HTML

乔布斯遗孀将裸指250亿美

元, 自称没兴趣积累财富

○ 日初日

CSS

JavaScript

个人中心

网格布局grid 二维布局











图说天下 | 又一"公主号"邮轮

中招: 3000人被困海上加州





佟丽娅大胆掀开被子, 却忘

了自己穿着"睡裤",网友: 沦



进入紧急状态

孙杨还有可能参加东京奥运 会吗, 该如何上诉? 体育法 专家、CAS仲裁员深度解读...

3 解放白斑

陷了啊!

9 Str

广告 天明相边

有种"不公平"叫杨迪兄妹,哥 哥长得像"小丑",妹妹却貌美

■ 东方头条

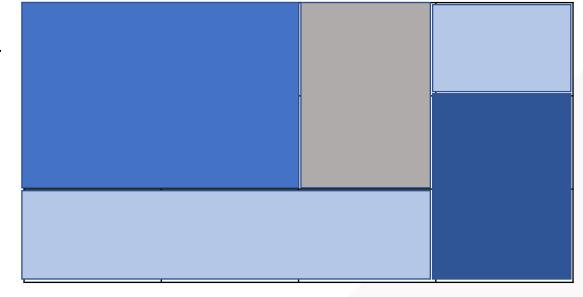
Web

□ 网格布局

网格布局 (Grid Layout)

列

行



网格容器 (Grid Container) 网格元素 (Grid Item)

旦 网格布局

网格容器样式

1. display属性: 定义网格容器

```
.grid-container{
          display: grid;
}
```



□ 网格布局

2. grid-template-columns和grid-template-rows属性

| 划分网格的行和列,取值:px、%、 | auto、fr、repeat()函数 |
|---|--------------------|
| grid-template-columns: 1fr 1fr; | |
| grid-template-columns: 1fr 2fr; | |
| grid-template-columns: 100px 1fr 2fr; | 100px |
| <pre>grid-template-columns:repeat(3,1fr);</pre> | |

□ 网格布局

完成如下网格

<div class="grid-container">

证用期据状态

完成如下网格

```
1 2 3 3 30px
4 5 6 1fr
```

```
.grid-container{
```

width: 300px;

height: 300px;

border:1px dashed;

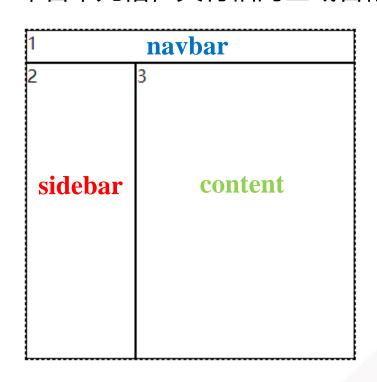
```
display: grid;
```

grid-template-rows:30px 1fr 1fr;

grid-template-columns:1fr 1fr 1fr;

3. grid-template-areas属性

命名单元格,具有相同区域名称的单元格被划分为一个区域



navbar sidebar content

```
.grid-container{
        display: grid;
        grid-template-rows:30px 1fr 1fr;
        grid-template-columns:1fr 1fr 1fr;
        grid-template-areas:
        "navbar navbar navbar"
        "sidebar content content"
        "sidebar content content ";
        width: 300px;
        height: 300px;
        border:1px dashed;
```

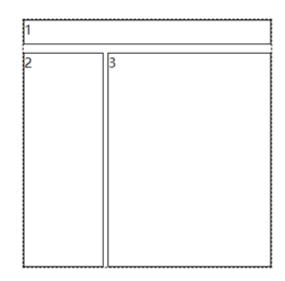
| 1 navbar | | |
|----------|---------|--|
| sidebar | content | |

```
.grid-item{
        border: 1px solid;
.grid-item:nth-child(1){
        grid-area: navbar;
.grid-item:nth-child(2){
        grid-area: sidebar;
.grid-item:nth-child(3){
        grid-area : content;
```

4. grid-gap 属性

```
grid-gap: grid-row-gap grid-column-gap
```

grid-row-gap:行间距, grid-column-gap: 列间距



```
.grid-container{
        grid-row-gap:10px;
        grid-column-gap:5px;
}
```

5. justify-items、align-items、place-items 属性

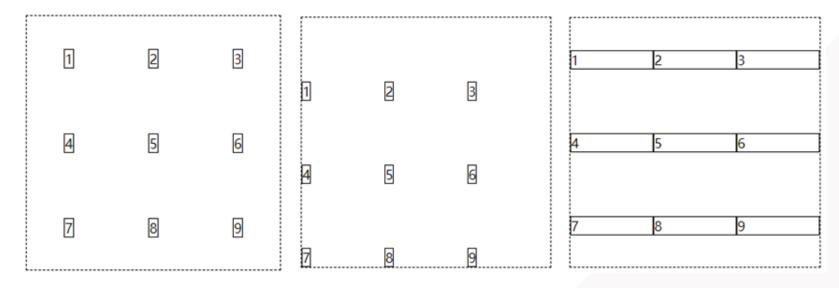
justify-items、align-items、place-items属性用于设置网格元素在网格中的位置。

- (1) justify-items:单元格内容的水平位置 justify-items: start | end | center | 默认stretch;
- (2) align-items:单元格内容的垂直位置 align-items: start | end | center | 默认stretch;

place-items: align-items属性 justify-items属性;

Map This

□ 网格布局



justify-items:center; align-items:center; justify-items:start; align-items:end;

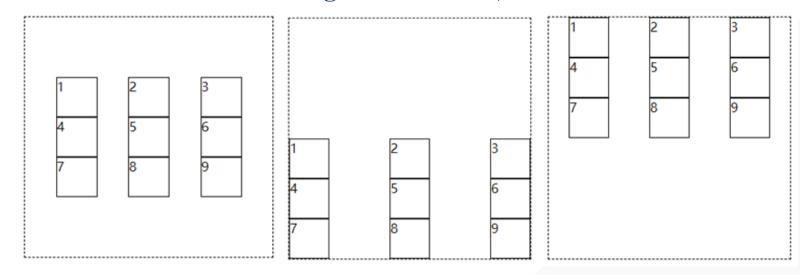
justify-items:stretch; align-items:center;

6. justify-content、align-content、place-content 属性

justify-content、align-content、place-content 属性用于设置整个内容区域在容器里面的位置。

- (1) justify-content:整个内容区域在容器里面的水平位置 justify-content: start | end | center | stretch | space-around | space-between | space-evenly;
- (2) align-content:整个内容区域的垂直位置 align-content: start | end | center | stretch | space-around | spacebetween | space-evenly;
 - (3) place-content:justify-content属性align-content属性

justify-content:space-between;
align-content:end;



justify-content:space-evenly;

align-content:center;

justify-content:space-around;

align-content:start;

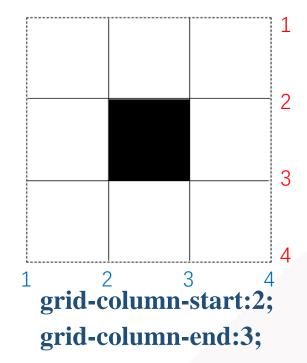
7. grid-auto-rows | grid-auto-columns | grid-auto-flow属性

这些属性表示当定义的行或列数量不够时,网格元素的自动排列方式。

- (1) grid-auto-columns属性:多出的网格元素的自动列宽。
- (2) grid-auto-rows属性:多出的网格元素的自动行高。
- (3) grid-auto-flow属性:按照先水平方向排列还是垂直方向排列。

网格元素样式

1. grid-column-*、grid-row-*属性



grid-row-start:2;
grid-row-end:3;

网格元素样式

1. grid-column-*、grid-row-*属性

```
1
2
3
1 2 3 4
```

```
.grid-item{
     grid-row-start:2;
     grid-row-end:3;
     grid-column-start:2;
     grid-column-end:3;
.grid-item{
     grid-row:2/3;
     grid-column:2/3;
.grid-item{
     grid-area:2/2/3/3;
```

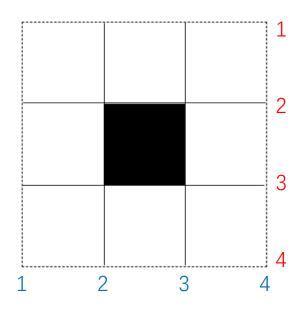
grid-area属性

| 1 navbar | | |
|----------|---------|--|
| sidebar | content | |

```
.grid-item:nth-child(1){
        grid-area : navbar;
}
.grid-item:nth-child(2){
        grid-area : sidebar;
}
.grid-item:nth-child(3){
        grid-area : content;
}
```

旦 网格布局

grid-area属性



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

Web This

□ 网格布局

网格元素样式

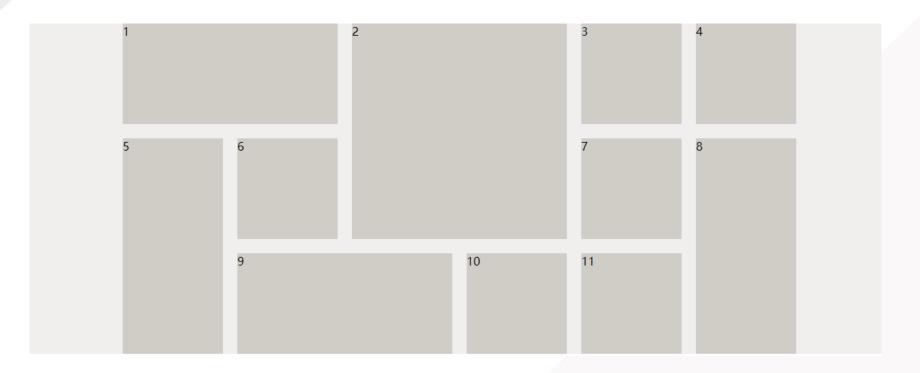
2. justify-self、align-self、place-self 属性

单个网格元素的对齐方式。

- (1) justify-self属性: 单元格内容的水平位置, 用法同justify-items属性。 justify-self: start | end | center | stretch;
- (2) align-self属性:单元格内容的垂直位置,用法同align-items属性。 align-self: start | end | center | stretch;

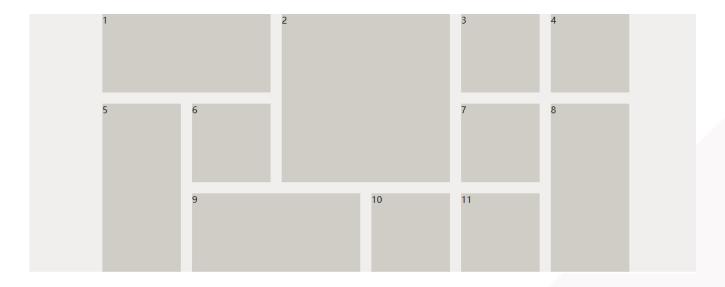
place-self: align-self属性 justify-self属性;

旦 案例



Meg Tille

□ 案例



设制排析

```
Mego Title
```

□ 案例

```
.grid-container{
    display: grid;
    justify-content: center;
    align-content: center;

    grid-template-columns: repeat(6,140px);
    grid-template-rows: repeat(3,140px);

    grid-gap: 20px;
}
```

□ 案例

```
    1
    2

    5
    6

    9
    10

    11
```

```
.grid-item:nth-child(1){
    grid-column: 1 / span 2;
    grid-row: 1 / 2;

grid-row: 1 / 2;

}
.grid-item:nth-child(2){
    grid-column: 3 / span 2;
    grid-row: 1 / span 2;
}
```