2.5 盒模型基础
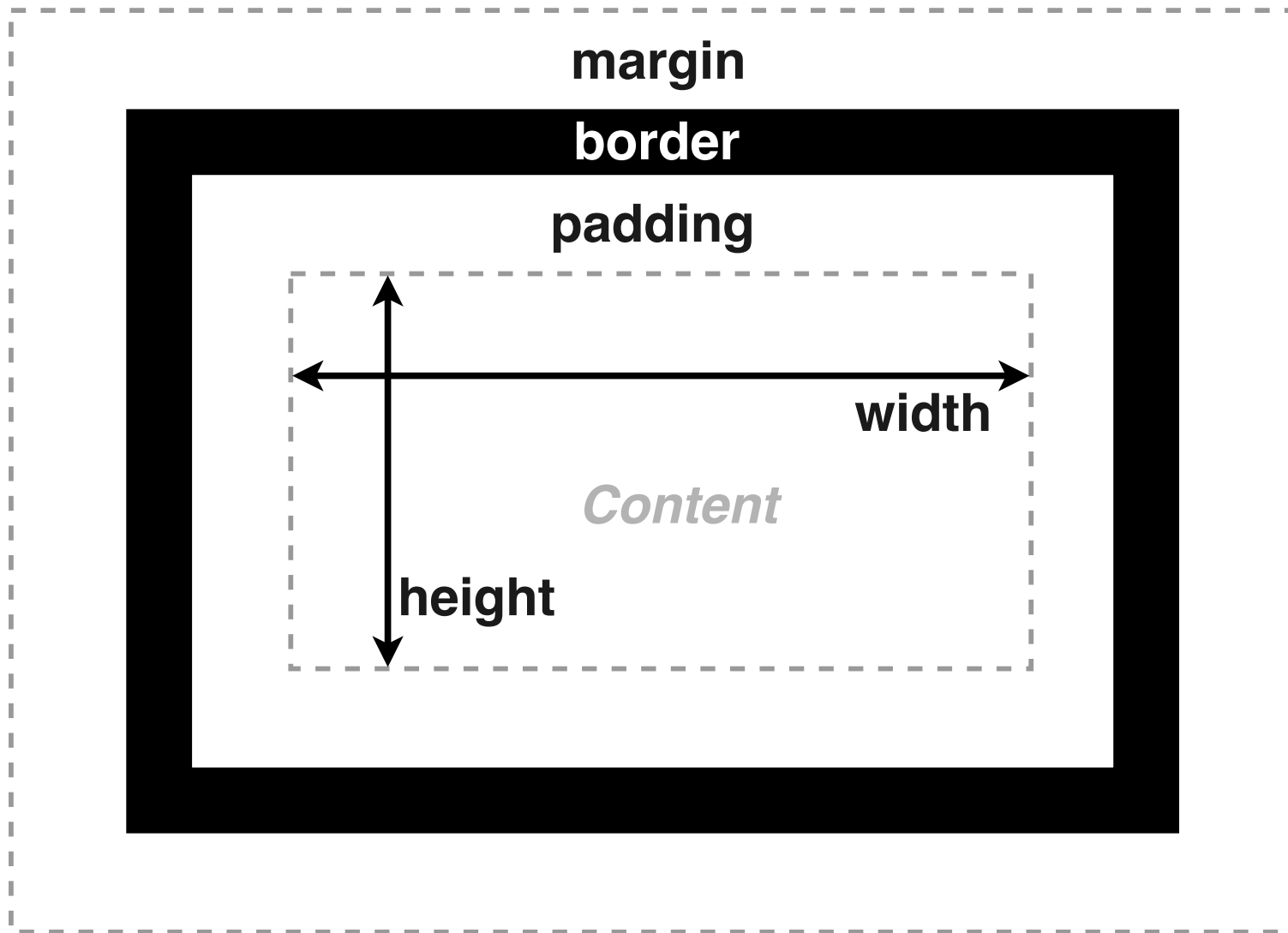
margin

border

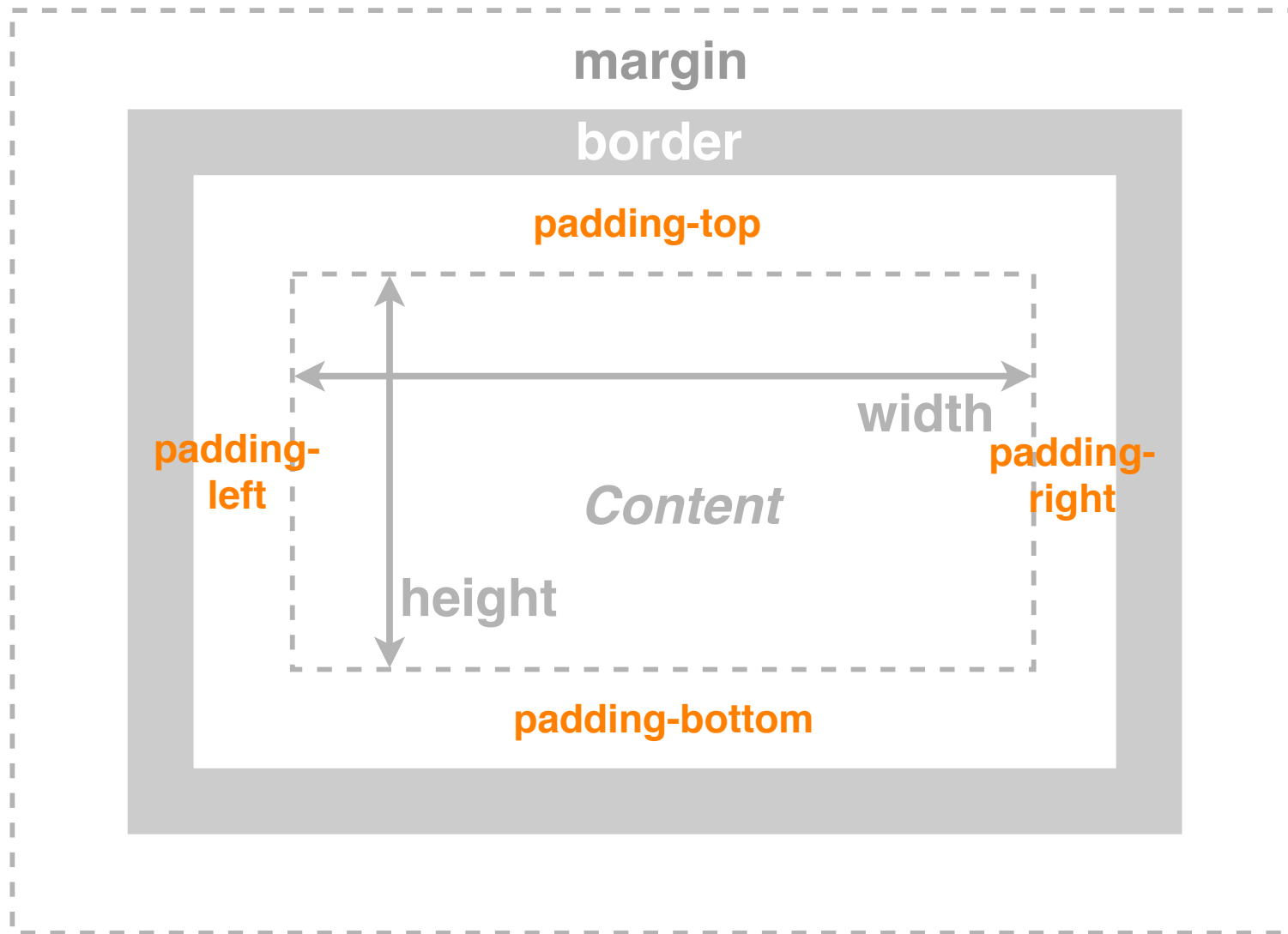padding

Content

width

height

width

- 指定 content box 宽度
- 取值为长度、百分数、auto
- auto 由浏览器根据其它属性确定
- 百分数相对于容器的 content box 宽度

height

- 指定 content box 高度
- 取值为长度、百分数、auto
- auto 取值由内容计算得来
- 百分数相对于容器的 content box 高度
- 容器有指定的高度时，百分数才生效

margin

border

padding-top

padding-left

width

padding-right

Content

height

padding-bottom

padding

- 指定元素四个方向的内边距
- 百分数相对于容器宽度

padding

- 指定元素四个方向的内边距
- 百分数相对于容器宽度

10px

padding

- 指定元素四个方向的内边距
- 百分数相对于容器宽度

10px   10px 20px

padding

- 指定元素四个方向的内边距
- 百分数相对于容器宽度

10px   10px 20px

padding

- 指定元素四个方向的内边距
- 百分数相对于容器宽度

10px   10px 20px

padding

- 指定元素四个方向的内边距

- 百分数相对于容器宽度

10px   10px 20px   10px 20px 10px 20px

padding

- 指定元素四个方向的内边距
- 百分数相对于容器宽度

10px

10px 20px

10px 20px 10px 20px

padding

- 指定元素四个方向的内边距
- 百分数相对于容器宽度

10px   10px 20px   10px 20px 10px 20px

padding

- 指定元素四个方向的内边距
- 百分数相对于容器宽度

10px   10px 20px   10px 20px 10px 20px

padding

- 指定元素四个方向的内边距

- 百分数相对于容器宽度

10px   10px 20px   10px 20px 10px 20px

```html
<div class="box1">When one value is ... </div>
<div class="box2">When two values ... </div>
<div class="box3">When three values ... </div>
<div class="box4">When four values ... </div>

<style>
  div {
    width: 200px;
    text-align: justify;
    margin-bottom: 1em;
  }

  .box1 {
    background: coral;
    padding: 20px;
  }

  .box2 {
    background: lightskyblue;
    padding: 20px 40px;
  }

  .box3 {
    background: lightpink;
    padding: 20px 30px 40px;
  }
```

When one value is specified, it applies the same padding to all four sides.

When two values are specified, the first padding applies to the top and bottom, the second to the left and right.

When three values are specified, the first padding applies to the top, the second to the left and right, the third to the bottom.

When four values are specified, the paddings apply to the top, right, bottom, and left in that order (clockwise).

border

- 指定容器边框样式、粗细和颜色

none | ▼ ●————————— ▮

Whether fullwidth colon punctuation and fullwidth dot punctuation should be considered fullwidth closing punctuation or fullwidth middle dot punctuation depends on where in the glyph's box the punctuation is drawn.

border

- 三种属性

  - border-width

  - border-style

  - border-color

- 四个方向

  - border-top

  - boder-right

  - border-bottom

  - border-left

```css
border: 1px solid #ccc;

border-left: 1px solid #ccc;
border-right: 2px dotted red;

border-width: 1px 2px 3px 4px;
border-style: solid;
border-color: green blue;

border-left-width: 3px;
border-top-color: #f00;
```

当四条边框颜色不同时

epen.io/webzhao/debug/rQGPyZ/RBMOJNgaY···
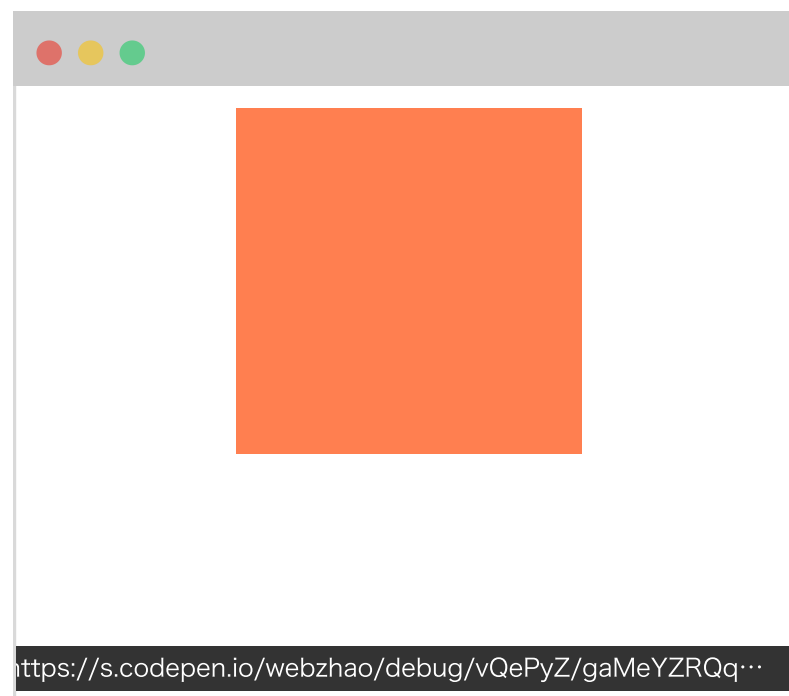
margin

- 指定元素四个方向的外边距
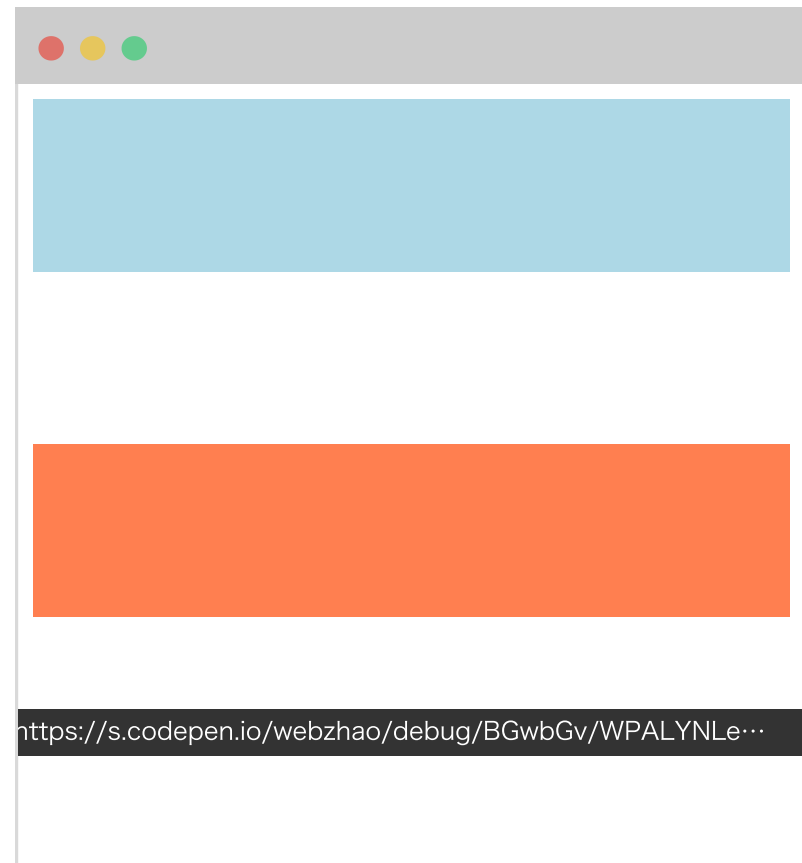- 取值可以是长度、百分数、auto
- 百分数相对于容器宽度

使用 margin:auto 水平居中

```html
<div></div>

<style>
div {
  width: 200px;
  height: 200px;
  background: coral;
  margin-left: auto;
  margin-right: auto;
}
</style>
```

https://s.codepen.io/webzhao/debug/vQePyZ/gaMeYZRQq···

margin collapse

```html
<div class="a"></div>
<div class="b"></div>

<style>
  .a{
    background: lightblue;
    height: 100px;
    margin-bottom: 100px;
  }
  .b {
    background: coral;
    height: 100px;
    margin-top: 100px;
  }
</style>
```

https://s.codepen.io/webzhao/debug/BGwbGv/WPALYNLe…

负 margin

```html
<div class="a"></div>
<div class="b"></div>

<style>
  .a {
    background: lightblue;
    width: 200px;
    height: 100px;
  }

  .b {
    background: coral;
    height: 100px;
    width: 100px;
    margin-left: 20px;
    margin-top: -20px;
  }
</style>
```
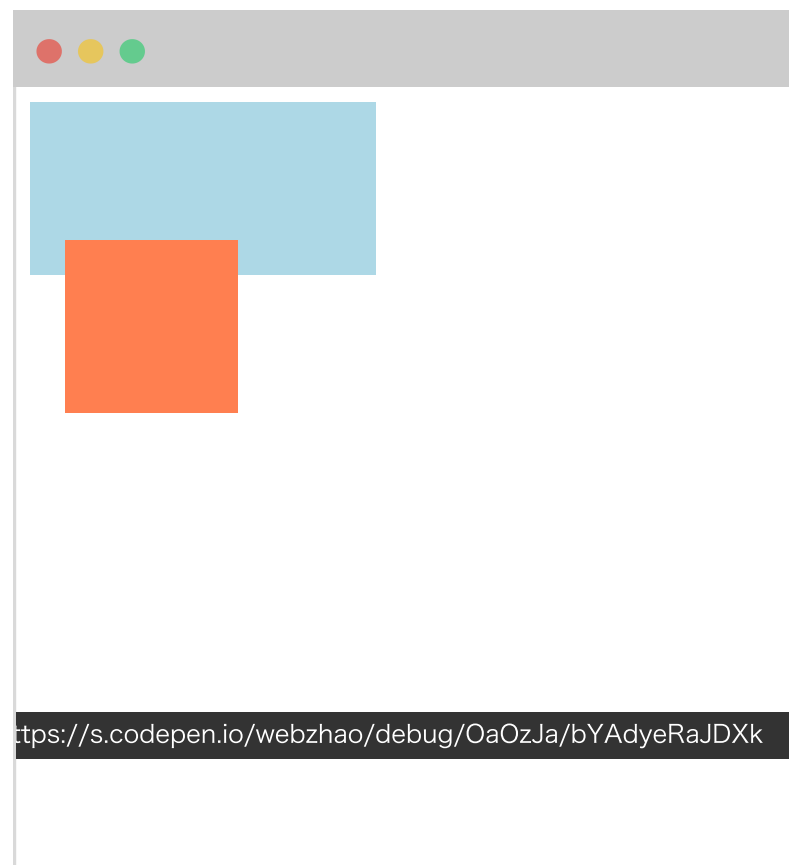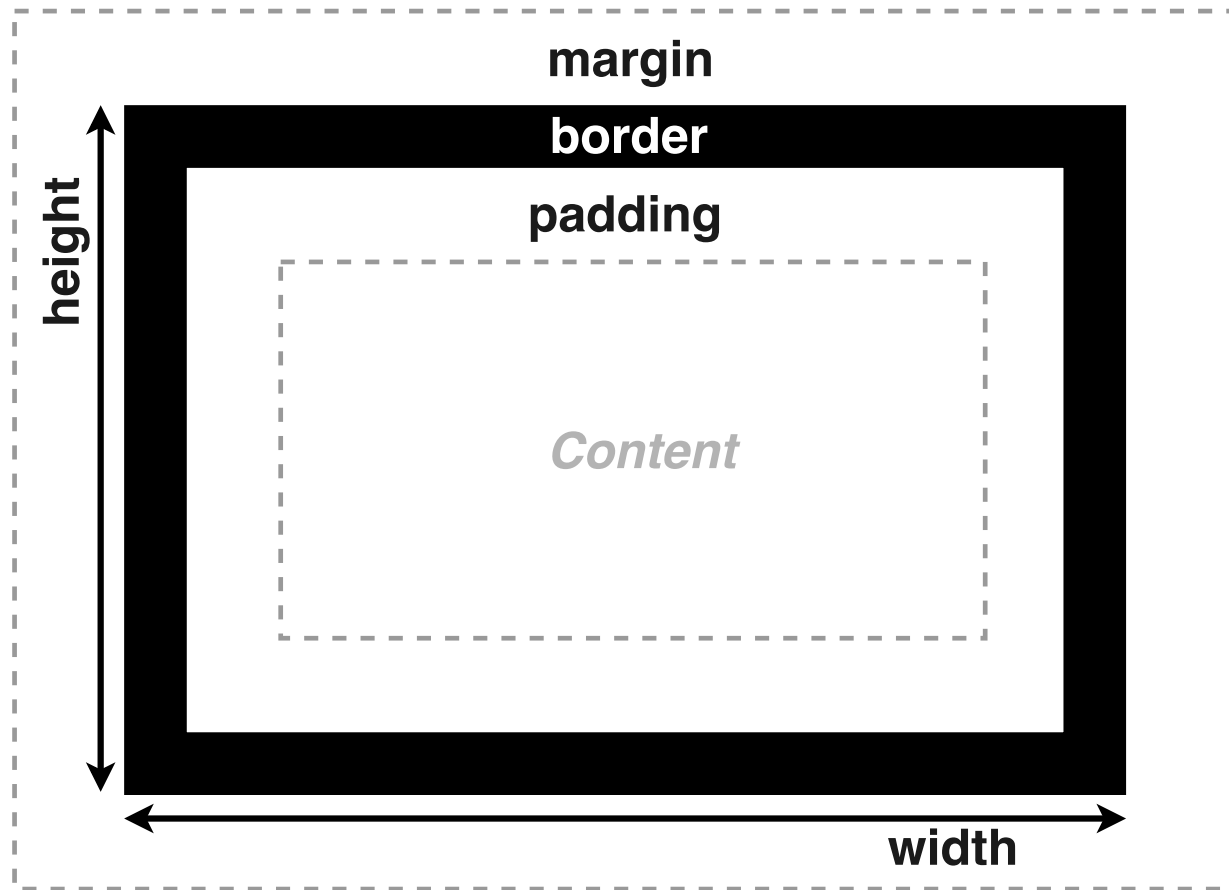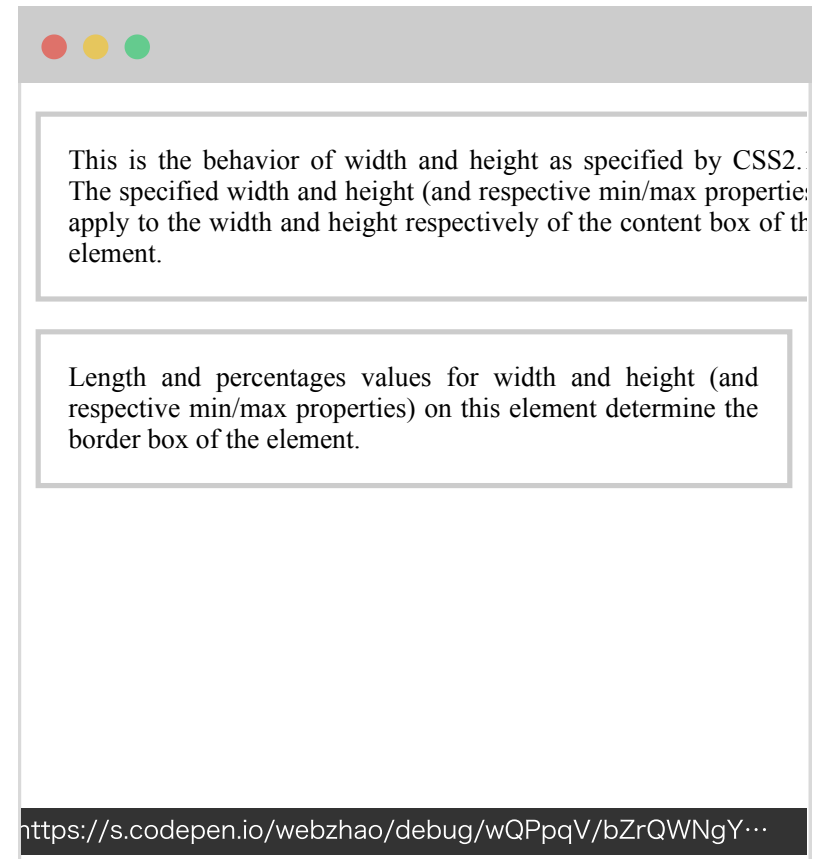
ttps://s.codepen.io/webzhao/debug/OaOzJa/bYAdyeRaJDXk

box-sizing: border-box

```
<p class="a">This is the ...</p>
<p class="b">Length and ...</p>

<style>
  .a {
    width: 100%;
    padding: 1em;
    border: 3px solid #ccc;
  }

  .b {
    box-sizing: border-box;
    width: 100%;
    padding: 1em;
    border: 3px solid #ccc;
  }
</style>
```

This is the behavior of width and height as specified by CSS2. The specified width and height (and respective min/max properties) apply to the width and height respectively of the content box of the element.

Length and percentages values for width and height (and respective min/max properties) on this element determine the border box of the element.

https://s.codepen.io/webzhao/debug/wQPpqV/bZrQWNgY···

overflow

```
<p class="text">The common starling ... </p>

<style>
  .text {
    width: 15em;
    height: 5em;
    padding: 1em;
    border: 2px solid red;
  }
</style>
```
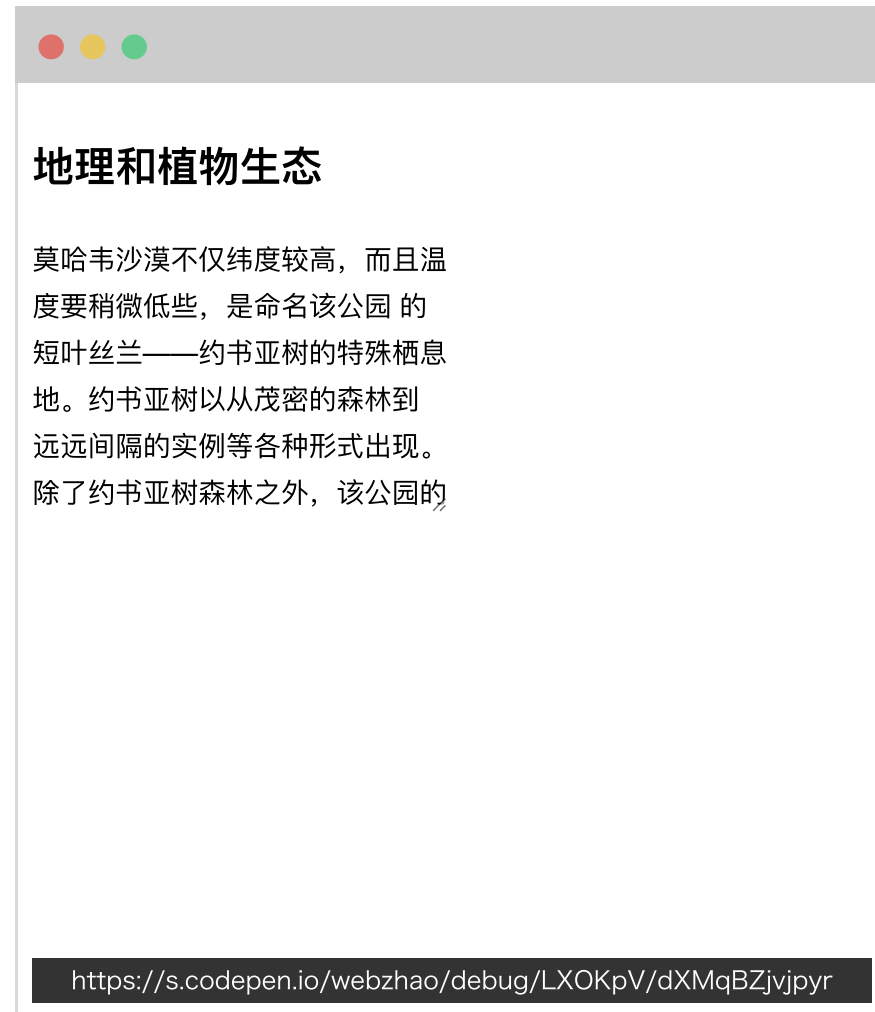
overflow: ⦿ visible   ◯ hidden   ◯ scroll

The common starling is a medium-sized perching bird in the starling family, Sturnidae. It is about 20 cm (8 in) long and has glossy black plumage, which is speckled with white at some times of year. The legs are pink and the bill is black in winter and yellow in summer; young birds have browner plumage than the adults. It is a noisy bird, especially in communal roosts, with an unmusical but varied song.

min-width & max-width

```
<main>
  <article>
    <h1>地理和植物生态</h1>
    <p>莫哈韦沙漠不仅纬度 ... </p>
  </article>
</main>

<style>
  article {
    margin: auto;
    line-height: 1.7;
    max-width: 20em;
    min-width: 10em;
  }

  main {
    resize: both;
    width: 15em;
    height: 15em;
    overflow: scroll;
    font-family: sans-serif;
  }
</style>
```
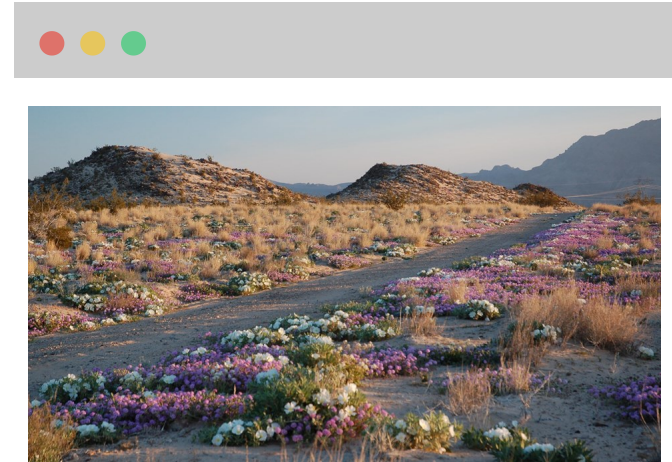
地理和植物生态

莫哈韦沙漠不仅纬度较高，而且温度要稍微低些，是命名该公园 的短叶丝兰——约书亚树的特殊栖息地。约书亚树以从茂密的森林到远远间隔的实例等各种形式出现。除了约书亚树森林之外，该公园的

min-height & max-height

```html
<article>
  <p>
    <img src="/m.jpg" alt="Mojave">
  </p>
  <p class="description">莫哈韦沙漠不仅 ... </p>
</article>

<style>
  article img {
    max-width: 100%;
  }

  article .description {
    line-height: 1.5;
    max-height: 3em;
    overflow: hidden;
  }
</style>
```


莫哈韦沙漠不仅纬度较高，而且温度要稍微低些，是命名该公园 的短叶丝兰──约书亚树的特殊栖息

depen.io/webzhao/debug/aQVgGv/bYAdyeRnzV···