

Going further

HTML & CSS Reference

Hover & pseudo-classes

A pseudo-class 伪类 styles an element in one particular state. `:hover` applies while the mouse is over the element. Add `transition` 过渡 so the change happens smoothly instead of jumping.

```
<style>
  .btn { background: #2563eb; color: white; padding: 10px 18px;
        border: none; border-radius: 8px; font-size: 16px;
        transition: background 0.3s; }
  .btn:hover { background: #16a34a; }
</style>
<button class="btn">Hover me</button>
```

- Other useful pseudo-classes: `:focus` (an input the user clicked into) and `:first-child`.

Positioning

Positioning 定位 moves a box away from its normal place. `relative` nudges the box (and makes it the anchor 锚点 for its children); `absolute` places a box exactly, measured from the nearest positioned parent; `fixed` pins it to the screen even when the page scrolls.

```
<style>
  .card { position: relative; width: 260px; height: 90px;
        background: #dbeafe; border-radius: 10px; padding: 12px; }
  .badge { position: absolute; top: -10px; right: -10px;
        background: #dc2626; color: white; padding: 4px 10px;
        border-radius: 999px; font-size: 13px; }
</style>
<div class="card">
  A product card
  <span class="badge">NEW</span>
</div>
```

- `top`, `right`, `bottom`, `left` say how far to move—they only work on positioned boxes.

Media queries & responsive design

A responsive 响应式 page adapts to the screen size. A media query 媒体查询 applies its rules only while a condition about the screen holds, such as `max-width`.

```
<style>
  .banner { background: #2563eb; color: white; padding: 16px; }
  @media (max-width: 600px) {
    .banner { background: #16a34a; }    /* narrow screens turn green */
  }
</style>
<div class="banner">Resize the window: blue when wide, green when
↪ narrow.</div>
```

- Design mobile-first 移动优先: write the phone styles first, then add @media (min-width: ...) rules for bigger screens.
- Percent widths and max-width let boxes shrink with the screen.

Common mistakes

- :hover sticks to its selector with no space: .btn:hover, not .btn :hover.
- position: absolute is measured from the nearest **positioned** parent —give that parent position: relative.
- A media query wraps whole rules: @media (max-width: 600px) { .a { ... } }.