



Web development CSS

Kleur

Kleur

Kleur kan voorgesteld worden met:

➤ de **kleurnaam**

Er bestaan 140 kleurnamen, waarvan 17 standaard kleurnamen (`aqua`, `black`, `blue`, `fuchsia`, `gray`, `green`, `lime`, `maroon`, `navy`, `olive`, `orange`, `purple`, `red`, `silver`, `teal`, `white` and `yellow`) en nog 123 meer.

De browsers ondersteunen alle 140 kleurnamen, ook al werden in CSS 2.1 enkel de 17 standaard kleurnamen gedefinieerd.

1



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Kleur

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Kleur kan voorgesteld worden met:

➤ de **hexadecimale kleurwaarde**

`#ffffff` voor wit of `#ff0000` voor rood.

Indien de 3 paren telkens 2 gelijke waarden hebben, kan deze waarde afgekort worden naar 3 karakters. Dan wordt `#fff` wit of `#f00` rood.

➤ de **rgb kleurwaarde**

`rgb(255, 255, 255)` voor wit of `rgb(255, 0, 0)` voor rood.

➤ `transparent` geen kleur of doorzichtig

2



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Kleur

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CSS3 ondersteunt ook transparante kleuren en HSL kleuren. Omdat dit nog niet in alle browsers ondersteund wordt, vermeld eerst de hexadecimale of rgb kleurwaarde en daarna pas volgende:

➤ de **rgba kleurwaarde**

De a staat voor alfa of transparant. Dit is een waarde van 0 tot 1

`rgba(255, 0, 0, 0.5)` voor rood 50% transparant

➤ de **hsl kleurwaarde**

`hsl(0, 100%, 100%)`. Het eerste cijfer stelt de kleur volgens de kleurencirkel voor van 0 tot 360. Het tweede is de saturatie van 0% of grijs tot 100% volledige kleur. Het derde is de lichtheid van 0% of zwart tot 100% voor wit.

➤ de **hsla kleurwaarde**

De a staat weer voor alfa of transparant, een waarde van 0 tot 1. `hsla(0, 100%, 100%, 0.5)`

3



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Voorgrond kleur

- Je kan de kleur gebruiken als **voorggrondkleur**. Dit is de eigenschap `color`. Heeft geen standaard waarde, maar is vaak standaard zwart. Wordt ook overgeërfd aan onderliggende elementen.

```
h1 {color: DarkCyan;}
h2 {color: #ee4e80;}
p {color: rgb(100, 100, 90);}
```

Marine Biology

The Composition of Seawater

Almost anything can be found in seawater. This includes dissolved materials from Earth's crust as well as materials released from organisms. The most important components of seawater that influence life forms are salinity, temperature, dissolved gases (mostly oxygen and carbon dioxide), nutrients, and pH. These elements vary in their composition as well as in their influence on marine life.

4

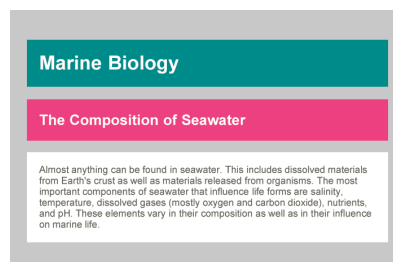


Web development CSS

Achtergrond kleur

- Je kan de kleur ook gebruiken als **achtergrondkleur**. Dit is de eigenschap `background-color`. Deze heeft als standaard waarde `transparent`. Wordt niet overgeërfd aan onderliggende elementen.

```
body {background-color: rgb(200,200,200);}
h1 {background-color: DarkCyan;}
h2 {background-color: #ee3e80;}
p {background-color: white;}
```



5

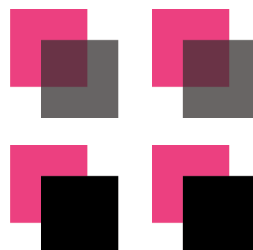


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Transparante achtergrond kleur

- Transparante kleuren kan te toepassen met de `rgba` of `hsla` kleur, maar ook met de eigenschap `opacity`.

```
p.one {
  background-color: rgb(0,0,0);
  opacity: 0.5;
  padding: 10px;}
p.two {
  background-color: rgb(0,0,0);
  background-color: rgba(0,0,0,0.5);}
```



6



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Achtergrond kleur


```
body {
  background-color: #C8C8C8;
  background-color: hsl(0, 0%, 78%);
}
p {
  background-color: #ffffff;
  background-color: hsla(0,100%,100%,0.5);
}
```

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7



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Achtergrond afbeelding

➤ Een afbeelding kan met de eigenschap `background-image` op de achtergrond geplaatst worden:

```
p {background-image: url("images/pattern.gif");}
```

Planting Guide

Magnolia

Magnolia grandiflora, commonly known as the **Southern magnolia** or **bull bay**, is a tree of the family Magnoliaceae native to the southeastern United States, from coastal Virginia south to central Florida, and west to eastern Texas and Oklahoma. Reaching 27.5 m (90 ft) in height, it is a large striking evergreen tree with large, dark green leaves and large white fragrant flowers. Widely cultivated around the world, over a hundred cultivars have been bred and marketed commercially. The timber is hard and heavy, and has been used commercially to make furniture, pallets, and veneer.

Ranunculus

Ranunculus asiaticus (*Persian Buttercup*) is a species of buttercup (*Ranunculaceae*) native to the eastern Mediterranean region in southwestern Asia, southeastern Europe (Crete, Karpathos and Rhodes), and northeastern Africa. It is a herbaceous perennial plant growing to 45 cm tall, with simple or branched stems. The basal leaves are three-lobed, with leaves higher on the stems more deeply divided; like the stems, they are downy or hairy. The flowers are 2–5 cm diameter, variably red, to pink, yellow, or white, with one to several flowers on each stem.

8



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Achtergrond afbeelding

- Standaard wordt deze afbeelding zowel horizontaal als verticaal herhaald.
- Met de eigenschap `background-repeat` kun je bepalen of en hoe de afbeelding herhaald moet worden. Deze kan 4 waarden hebben:
 - `repeat` (standaard waarde - horizontaal en verticaal herhalen)
 - `repeat-x` (enkel horizontaal herhalen)
 - `repeat-y` (enkel verticaal herhalen)
 - `no-repeat` (niet herhalen)

9



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Achtergrond afbeelding

```
body {
  background-image: url("images/header.gif");
  background-repeat: repeat-x;}
```



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10



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Achtergrond afbeelding

- Standaard schuift de achtergrond afbeelding mee naar boven indien naar beneden gescrold wordt. Met de eigenschap `background-attachment` kunt er ook voor zorgen dat de achtergrond afbeelding vast blijft staan. Deze eigenschap heeft 2 mogelijkheden:
 - `scroll` De achtergrond afbeelding scrollt mee met de rest van de pagina.
 - `fixed` De achtergrond afbeelding blijft vast

11



Web development CSS

Achtergrond afbeelding

```
body {
  background-image: url("images/tulip.gif");
  background-repeat: no-repeat;
  background-attachment: fixed;}

```

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12



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Achtergrond afbeelding

- Standaard wordt de afbeelding links boven geplaatst, maar met de eigenschap `background-position` kan je deze ook een andere plaats geven. Deze krijgt de volgende waarden:
 - `x% y%` De horizontale en verticale positie in %.
0% 0% is links bovenaan, 100% 100% is rechts onderaan.
 - `xpos ypos` De horizontaal en verticale positie in de CSS maateenheden (`em`, `pt`, `px`, ...).
 - `left | center | right top | center | bottom` De horizontale plaats benaming en de verticale plaats benaming.
- Wordt de tweede waarde weggelaten, dan is deze 50% of center
- %, positie of namen mogen gemengd worden.
- Bij enkele browsers (Firefox en Opera) is het nodig deze waarde op `fixed` te zetten voordat `background-position` werkt.

13



Web development CSS

Achtergrond afbeelding

```
body {
  background-image: url("images/tulip.gif");
  background-repeat: no-repeat;
  background-attachment: fixed;
  background-position: center top;}
```

```
body {
  background-image: url("images/tulip.gif");
  background-repeat: no-repeat;
  background-attachment: fixed;
  background-position: 50% 0%;}
```

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14



Web development CSS

Achtergrond

- Voor de achtergrond bestaat er ook een samengestelde eigenschap `background`. Deze bevat de waarden voor:

- `background-color`
- `background-image`
- `background-repeat`
- `background-attachment`
- `background-position`

De waarden moeten niet allemaal aanwezig zijn.

```
body {  
  background: #ffffff url("images/tulip.gif") no-repeat  
              fixed right top;}
```