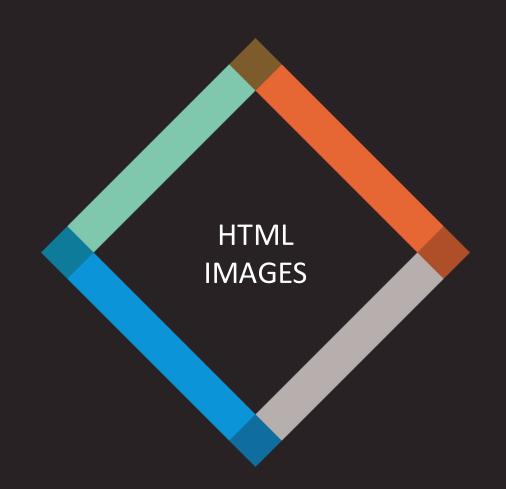# Web Essentials
Afbeeldingen - Boxes

HTML
IMAGES

CHOOSING IMAGES FOR YOUR SITE

Images can set the tone for a site in less time than it takes to read a description.

patagonia®

Shop Clothing & Gear   Environmentalism   Video & Music   Blog

+ 🛒 My Cart

Sign In | Sign Up

Sales, new gear and more: Sign Up For Patagonia Emails   **email sign up**
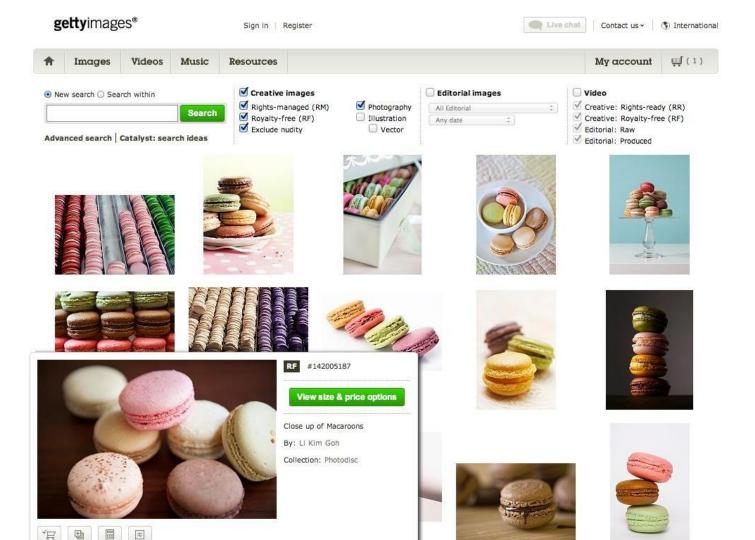
Visit a store: **find patagonia**

USED PATAGONIA GEAR POWERED BY ebay

boots and shoes
PATAGONIA FOR YOUR FEET

sneak peek
WINTER WON'T LAST FOREVER. PEEP SOME OF OUR NEW SPRING GEAR.

soft-shell jackets
BREATHABLE PERFORMANCE

CHOOSING IMAGES FOR YOUR SITE

Images are subject to copyright but there are stock photography sites where you can buy them.

gettyimages®

Sign in | Register

Live chat   Contact us ⌄   🌐 International

🏠   Images   Videos   Music   Resources   My account   🛒 (1)

◉ New search ○ Search within

☑ Creative images   ☐ Editorial images   ☐ Video
☑ Rights-managed (RM)   ☑ Photography   All Editorial ⇕   ☑ Creative: Rights-ready (RR)
☑ Royalty-free (RF)   ☐ Illustration   Any date ⇕   ☑ Creative: Royalty-free (RF)
☑ Exclude nudity   ☐ Vector   ☑ Editorial: Raw
                                                                   ☑ Editorial: Produced

[Search]

Advanced search | Catalyst: search ideas

RF #142005187

[View size & price options]

Close up of Macaroons

By: Li Kim Goh

Collection: Photodisc

CHOOSING IMAGES FOR YOUR SITE

If a page shows several photos of products or members of a team, keep them consistent.

EXPLORE
new arrivals
our favourite dresses
winter whites
sequin + shine
those we fancy
occasion dresses

SHOP BY CATEGORY
dresses
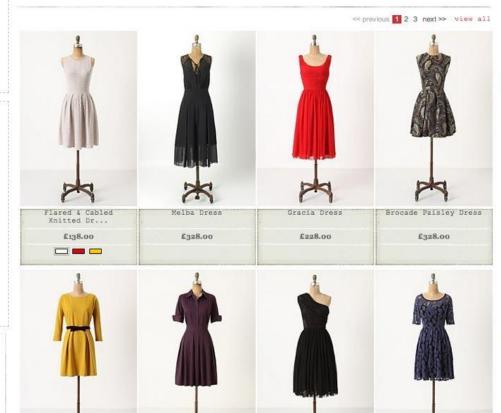 column
  knitted
 *fit & flare
  printed
  block colour
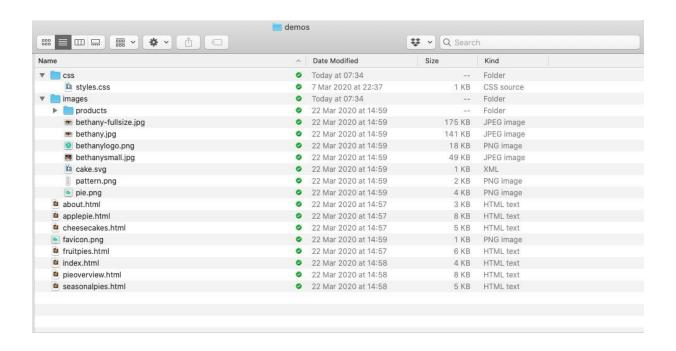tops & tees
shirts & blouses
knitwear
coats & jackets
skirts
denim & trousers
shorts
sleep & lounge
lingerie
tights & socks
sale

Recently viewed items

Flared & Cabled Knitted Dr...	Melba Dress	Gracia Dress	Brocade Paisley Dress
£138.00	£328.00	£228.00	£328.00

STORING IMAGES ON YOUR SITE

ADDING IMAGES

```html
<img src="images/quokka.jpg"
     alt="A family of quokka"
     title="The quokka is an Australian
            marsupial that is similar in
            size to the domestic cat"
     width="600"
     height="450">
```

ADDING IMAGES

necessary attribute: alt

Accessibility: Not every device or person can see the image!

•<img src="logo-ehb.png" **alt**="Erasmushogeschool Brussel">

• If the content of your image is not important

• use empty attribute: alt=""

• Alt-values are also important for SEO (Search Engine Optimisation)

FIGURE & FIGURE CAPTION

HTML

```html
<figure>
    <img src="images/otters.gif"
        alt="Photograph of two sea otters
            floating in the water"
        width="600" height="400">
    <br>
    <figcaption>Sea otters hold hands when
        they sleep so that they don't
        drift away from each other.
    </figcaption>
</figure>
```

Sea otters hold hands when they sleep so they don't drift away from each other. => figcaption

WHERE TO PLACE IMAGES IN YOUR CODE

```html
<img src="images/bird.gif" alt="bird"
     width="100" height="100">
<p>There are around 10,000 living species
of birds that inhabit different ecosystems
from the Arctic to the Antarctic. Man
species undertake long distance annual
migrations, and many more perform shorter
irregular journeys.</p>
```

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

WHERE TO PLACE IMAGES
IN YOUR CODE

```html
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WHERE TO PLACE IMAGES IN YOUR CODE

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<img src="images/bird.gif" alt="bird"
    width="100" height="100">
ecosystems from the Arctic to the
Antarctic. Man species undertake long
distance annual migrations, and many more
perform shorter irregular journeys.</p>
```

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

Layout in pure HTML is very limited but that is to be expected.
CSS to the rescue!

IMAGE FORMATS:

Most webformats are
pixel based

- jpg (jpeg)
- gif
- png
- webp

- animated gif
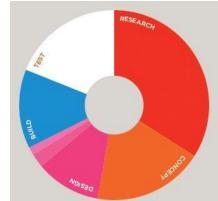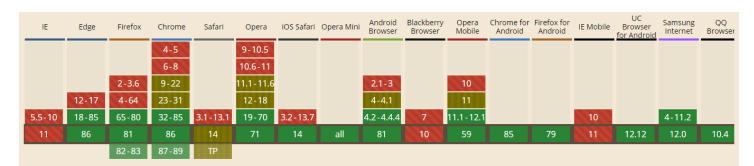- animated webp

Vector based
- svg

IMAGE FORMATS:
JPEG

IMAGE FORMATS:
GIF / PNG

IMAGE FORMATS WEBP

- more recent format
- up to 45% more efficient than GIF, PNG
- on average 39% more efficient than JPG

IE	Edge	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Blackberry Browser	Opera Mobile	Chrome for Android	Firefox for Android	IE Mobile	UC Browser for Android	Samsung Internet	QQ Browser
			4-5		9-10.5											
			6-8		10.6-11											
		2-3.6	9-22		11.1-11.6			2.1-3		10						
	12-17	4-64	23-31		12-18			4-4.1		11						
5.5-10	18-85	65-80	32-85	3.1-13.1	19-70	3.2-13.7		4.2-4.4.4	7	11.1-12.1			10		4-11.2	
11	86	81	86	14	71	14	all	81	10	59	85	79	11	12.12	12.0	10.4
		82-83	87-89	TP												

CORRECT USE OF IMAGES

1
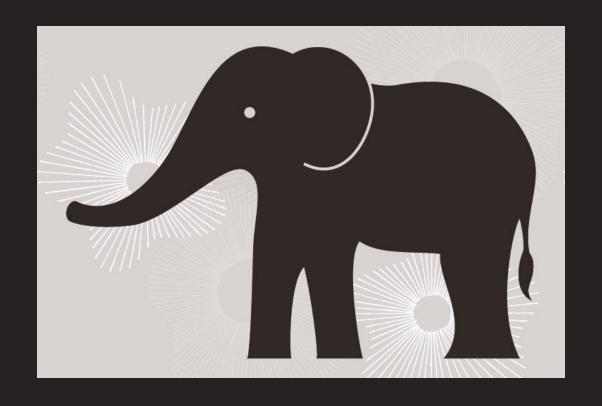SAVE IMAGES IN
THE RIGHT FORMAT
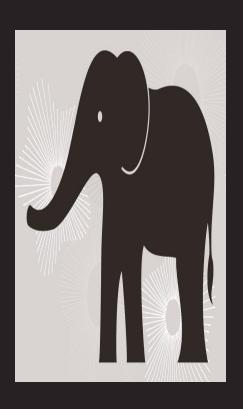
2
SAVE IMAGES AT
THE RIGHT SIZE

3
USE THE CORRECT
RESOLUTION

IMAGE DIMENSIONS

Create each image the same width and height ratio as you would like it to appear on your website.

Many screens are high definition For perfect results make images 2 or 3 times larges than they will appear

IMAGE DIMENSIONS

IMAGE DIMENSIONS

If an image has the wrong dimensions, it can look squished.

IMAGE DIMENSIONS
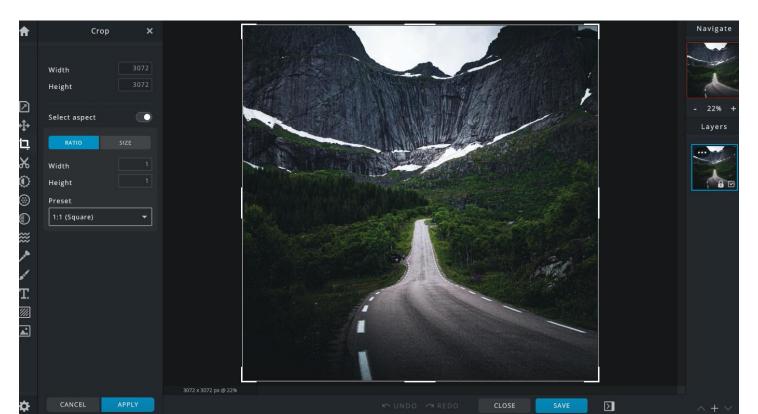
If an image is too small, it can look blurry when shown bigger.

PIXLR.COM

Online image editing tool (gratis registratie)

IMAGES & TRANSPARENCY

gif, png & webp can have transparent parts

Png has semi-transparency

PNG file size: 118.5 KB

WebP-lossless file size: 80.1 KB

WebP-lossy (with alpha) file size: 18.4 KB
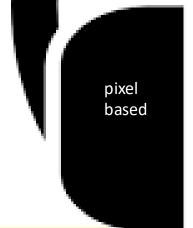
ANIMATE IMAGES

Animated gif or wepb
multiple images in one

use subtle!

SVG

- SVG (.svg)

  - Scalable Vector Graphics
  - **NOT pixel based**
  - XML-format: readable & editable in text editor

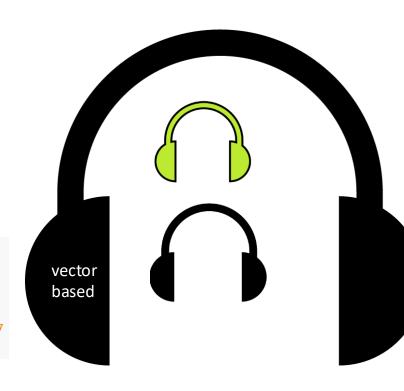| IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Opera Mobile *	Chrome for Android	Firefox for Android	UC Browser for Android	Samsung Internet
								2.1-2.3					
6-8	12-18	2		3.1				3-4.3					
9-10	79-85	3-80	4-85	3.2-13.1	10-70	3.2-13.7		4.4-4.4.4	12-12.1				4-11.2
11	86	81	86	14	71	14	all	81	59	85	79	12.12	12.0
		82-83	87-89	TP									

SVG

pixel
based

- SVG

- <mark>vector based = resize without problem</mark>

- <mark>Eenvoudig te manipuleren</mark>

```
<svg xmlns="http://www.w3.org/2000/svg" width="439" height="439"
viewBox="0 0 439 439">
  <title>Hoofdtelefoon</title>
  <path d="M438.7 311c0 51.4-41.7 93.1-93.1 93.1V217.9c10 0 19.6
  1.6 28.6 4.5v-8.6c0-82.8-67.4-150.2-150.2-150.2 -82.8 0-150.2
  67.4-150.2 150.2v6.2c6.2-1.3 12.7-2 19.3-2v186.3C41.7 404.2 0
  362.5 0 311c0-33.8 18-63.3 44.8-79.6v-17.6c0-98.8 80.4-179.2
  179.2-179.2 98.8 0 179.2 80.4 179.2 179.2v24.1C424.8 254.9 438.7
  281.3 438.7 311z"/>
</svg>
```

vector
based

HOW TO USE SVG IN HTML

- linked like jpg, gif, …

```
<img src="headphone.svg" alt="hoofdtelefoon"
width="600" heigh="400">
```

- svg code directly in html
    - this is "embedded svg"

```
<svg width="100" height="100">
  <circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow" />
</svg>
```

IMAGE BETTER ALIGNMENT WITH CSS

```
img{
    float:left;
}

img{
    float:right;
}
```


*Float wordt **niet** gebruikt voor het opbouwen van volledige pagina layouts !*

IMAGE ALIGNMENT - CSS

- No center alignment with floats
  float:center

- to stop content after an image from floating
  clear:both;

Wat gebeurt er als je een afbeelding met onjuiste verhoudingen toevoegt?
Groep van antwoordkeuzes

antwoord: De afbeelding kan er vervormd uitzien

CSS
BACKGROUND
IMAGES

BACKGROUND IMAGES in CSS

- If an image is not really part of the content
  added only for design purposes

```
background-image:url(imagepath/sheep.png);
```


WHILE YOU CONQUER INTERNATIONAL
TRADE
RMB WILL HANDLE THE PAPERWORK!
Our services: Fiscal Representation, specialized in VAT, Customs / Duties,
Eco-taxation & Posting of workers.

BIG DATA,
WEINIG
CONTEXT:
HBITS BRENGT
DIE CONTEXT
WEER
IN BEELD

Meer dan ooit laat wat mensen doen sporen na,
via kredietkaarten, klantenkaarten,
Facebookupdates, apps, wearables of sensoren.
Zinvol, want ze laten zien hoe gezinnen,
werknemers, consumenten of andere groepen
mensen zich gedragen; maar ook beperkend
omdat de context waarin die zich bewegen
grotendeels buiten beeld blijft. hbits brengt die
context begrijpelijk weer in beeld.

hbits vertrekt vanuit de handelende mens, de
actor, die handelt in een context (zoals tijd, ruimte,
andere actoren, ...). Willen we een groep of
organisatie begrijpen, dan moeten we individuen
gaan analyseren naar gedrag en context.

Co-creatie en 6 maal hogere loyaliteit

Nomige is het resultaat van meer dan 10 jaar wetenschappelijk
onderzoek. En we blijven investeren in onderzoek en
ontwikkeling. Onze producten worden altijd in overleg met jou
gemaakt - 'co-creatie' - omdat jouw mening telt.

Onze op maat gemaakte producten bestaan uit actieve
bestanddelen die zichtbaar op jouw huid werken. En voor
elke klant starten we ons proces in het labo om uit te zoeken
wat jouw huid echt nodig heeft.

Deze precieze en gepersonaliseerde aanpak resulteert in een 5
keer beter anti-rimpel effect en een 6 keer hogere loyaliteit
ten opzichte van de concurrentie.

Meer over onze klinische studies - binnenkort.

BACKGROUND IMAGE & COLOR

```
body {
    background-image:url(img/sky.png);
    background-color: blue;
}
```

BACKGROUND REPEAT

Default is repeat in all directions

`background-repeat`
- `repeat`
- `repeat-x`
- `repeat-y`
- `no-repeat`

Example of background-image with repeat-x property.

```
▼<li class="ac-gn-item ac-gn-apple">
   ▶<a class="ac-gn-link ac-gn-link-apple" href="/"
   data-analytics-title="apple home" id="ac-gn-
   firstfocus">…</a>
 </li>
```

BACKGROUND POSITION

- default: `left top`

- `background-position:`

  - right
  - left
  - top
  - bottom
  - center

  - number of pixels
  - number in %
  - em, any length unit

```
background-position: 75% 75%
background-position: top right
```

BACKGROUND SIZE

- depending on screen size a block will not always have the same ratio. But the image should be

`background-size`

- `width height`
  - 2 waarden in pixels
  - 2 percentages (bij slechts 1, dan krijgt 2de default: `auto`)
  - 2 pixelwaarden (bij slechts 1, dan krijgt 2de default: `auto`)
- `cover`
- `contain`

Hoe zorg je ervoor dat een achtergrond-afbeelding steeds volledig binnen een container past, zonder dat deze uitgerekt wordt?

antwoord: background-size: contain;

[example](#)

BACKGROUND SIZE COVER

BACKGROUND SCROLL OR NOT?

- Defines if the background follows the page scroll or not

- `background-attachment`

  - `scroll`
    - default:
  - `fixed`

    Wat is het effect van "background-attachment: fixed"?
antwoord: De achtergrond blijft op zijn plaats terwijl de pagina scrolt

    - background stays in its original place
  - `local`
    - scroll inside the element

BACKGROUND SHORTHAND

- background: color background-image repeat position/size *attachment*

example:

- background: #F3FAC0 url(icon.png) no-repeat center top/cover fixed;
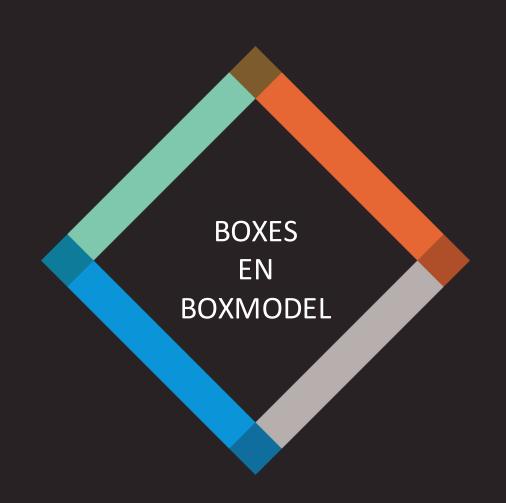
BACKGROUND Gradients : linear

- angle
  - to bottom left
  - 45deg
- 2 or more color stops

```
background: linear-gradient(angle, color1, color2);

linear-gradient(angle, color1, color2, color3, color4);
```

[examples](#)

Gradient Backgrounds

BOXES
EN
BOXMODEL

BLOCK VS INLINE BOXES - HTML

- Every HTML-element is a box
  This box can be *block-level* or *inline*. *(inline = text-level)*

block

p, h1-h6, div, section, header, footer,
article, aside, ul, li

inline

em, strong, b, i, mark, img,...

BOXES IN CSS

a, `img` en b zijn in HTML inline element en
h1, p en `div` zijn in HTML block elementen

Je kan deze defaults aanpassen in CSS met `display`

```
display:block;
display:inline;



display: inline-block
display: none;


display:flex;
```

```
a {
  display:block;
  width:50%;
  height:2em;
  padding: 1em;
}
```
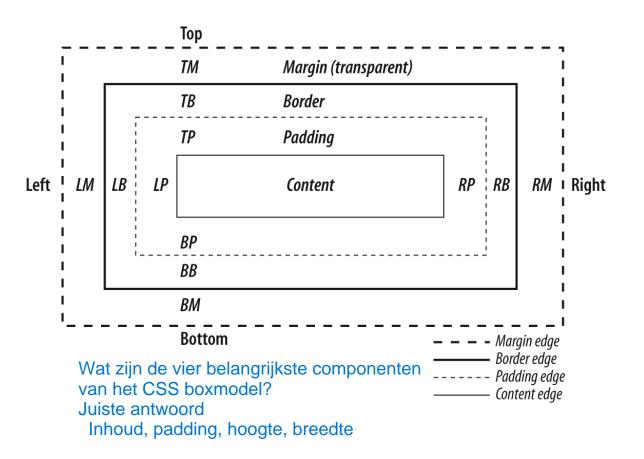
BORDER, MARGIN & PADDING

BORDER **MARGIN** **PADDING**

Box-model

Top

TM — *Margin (transparent)*

TB — *Border*

TP — *Padding*

Left — LM — LB — LP — *Content* — RP — RB — RM — **Right**

BP

BB

BM

Bottom

- – – – *Margin edge*
- ——— *Border edge*
- - - - - *Padding edge*
- ——— *Content edge*

Wat zijn de vier belangrijkste componenten
van het CSS boxmodel?
Juiste antwoord
  Inhoud, padding, hoogte, breedte

BORDER WIDTH
border-width

```css
p.one {
  border-width: 2px;}


p.two {
  border-width: thick;}


p.three {
  border-width: 1px 4px 12px 4px;}
```

Hohner's "Clavinet" is essentially an electric clavichord.

Hohner's "Clavinet" is essentially an electric clavichord.

Hohner's "Clavinet" is essentially an electric clavichord.

BORDER STYLE
border-style

```css
p.one {border-style: solid;}
p.two {border-style: dotted;}
p.three {border-style: dashed;}
p.four {border-style: double;}
p.five {border-style: groove;}
p.six {border-style: ridge;}
p.seven {border-style: inset;}
p.eight {border-style: outset;}
```

Wurlitzer Electric Piano

Wurlitzer Electric Piano

Wurlitzer Electric Piano

Wurlitzer Electric Piano

Wurlitzer Electric Piano

Wurlitzer Electric Piano

Wurlitzer Electric Piano

Wurlitzer Electric Piano

BORDER COLOR
border-color

```css
p.one {
  border-color: #0088dd;}

p.two {
  border-color: #bbbbaa #111111 #ee3e80
  #0088dd;}
```

The ARP Odyssey was introduced in 1972.

The ARP Odyssey was introduced in 1972.

BORDER SHORTHAND
border

```css
p {
    width: 250px;
    border: 3px dotted #0088dd;}
```

Here is a simple chord sequence played on a Hammond organ through a Leslie speaker.

PADDING
padding

```css
p {
   width: 275px;
   border: 2px solid #0088dd;}

p.example {
   padding: 10px;}
```

Analog synths produce a wave sound, whereas the sounds stored on a digital synth have been sampled and then turned into numbers.

Analog synths produce a wave sound, whereas the sounds stored on a digital synth have been sampled and then turned into numbers.

MARGIN
margin
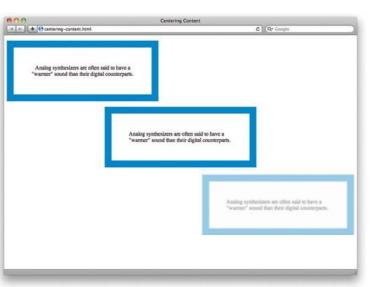
```css
p {
  width: 200px;
  border: 2px solid #0088dd;
  padding: 10px;}

p.example {
  margin: 20px;}
```

Analog synthesizers are often said to have a "warmer" sound than their digital counterparts.

Analog synthesizers are often said to have a "warmer" sound than their digital counterparts.

CENTERING CONTENT
margin:auto

~~align : center~~

```css
body {
text-align: center;}
p {
width: 300px; padding: 50px;
border: 20px solid #0088dd;
}

p.example1 {
margin: 10px auto 10px auto;}

p.example2 {
margin: 10px 10px 10px auto;}
```

Analog synthesizers are often said to have a
"warmer" sound than their digital counterparts.

Analog synthesizers are often said to have a
"warmer" sound than their digital counterparts.

Analog synthesizers are often said to have a
"warmer" sound than their digital counterparts.

BOX **DIMENSIONS**
width, height

```css
div {
 height: 300px;
 width: 400px;
 background-color: #ee3e80;}


div p {
 height: 75%;
 width: 75%;
 background-color: #e1ddda;}
```

The Moog company pioneered the commercial manufacture of modular voltage-controlled analog synthesizer systems in the early 1950s.

LIMITING WIDTH
min-width, max-width

LIMITING HEIGHT
min-height, max-height

```css
.description {
 min-width: 450px;
 max-width: 650px;
 text-align: left;
 padding: 5px;
 margin: 0px;}
```

BOX SIZING
box-sizing

Mogelijke waarden:
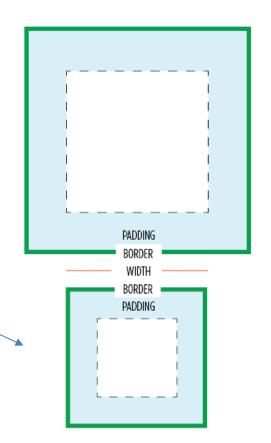
Wat is de standaardwaarde voor de box-sizing eigenschap?

`content-box (default)`
`padding-box`
`border-box`

```
* {

box-sizing: border-box;

}
```

ROUNDER CORNERS
border-radius

```css
a {
    display: inline-block;
    background: #0088dd;
    color: white;
    text-decoration:none;
    padding: 1em 3em;
    border-radius: 1em;
}
```

klik mij

OVERFLOWING CONTENT
overflow

- in pure HTML the dimensions of a box follow the amount of content
- if dimensions are limited by CSS overflow is possible

CSS

```
default = overflow: visible

p { height: 250px; }
p.one {
  overflow: hidden;}

p.two {
  overflow: scroll;}
```

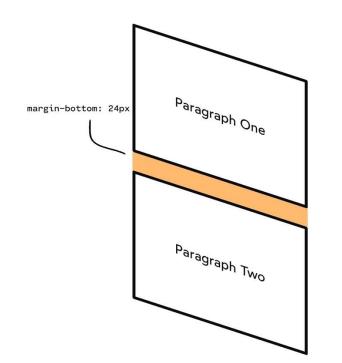Play with different overflow property values.

To demonstrate the different property values, this text is repeated several times.

Play with different overflow property values.

To demonstrate the different property values, this text is repeated several times.
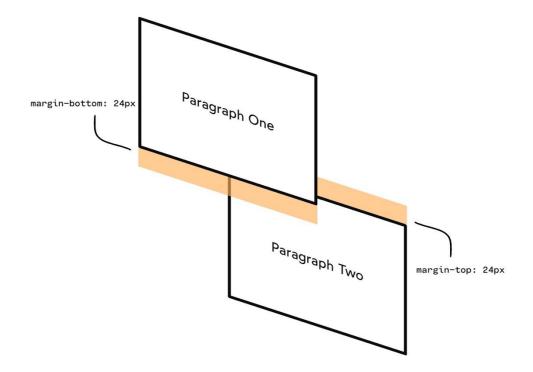
Play with different overflow property values.

To demonstrate the different property values, this text is repeated several times.

Play with different overflow property values.

To demonstrate the different property values, this text is repeated several times.

CSS Code:

Play with different overflow property values.

To demonstrate the different property values, this text is repeated several times.

Play with different overflow property values.

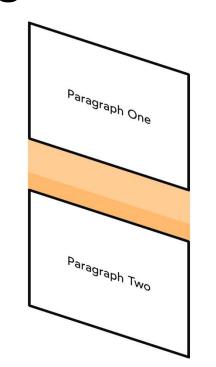To demonstrate the different property values, this text is repeated several times.

Play with different overflow property values.

To demonstrate the different property values, this text is repeated several times.
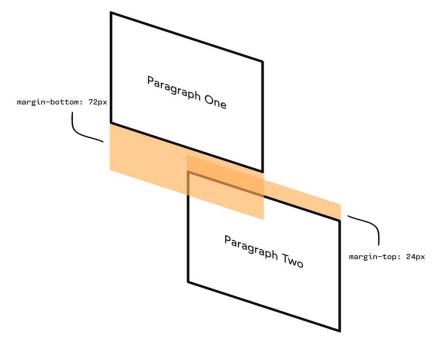
Play with different overflow property values.

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Play with different overflow property values.
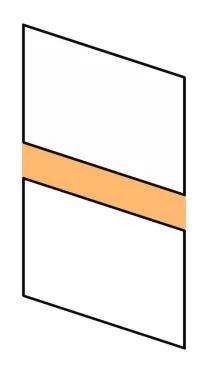
MARGIN COLLAPSING

margin-bottom: 24px

Paragraph One

Paragraph Two

margin-bottom: 24px

Paragraph One

Paragraph Two

margin-top: 24px

MARGIN COLLAPSING
de grootste 'wint'

Paragraph One

Paragraph Two

margin-bottom: 72px

Paragraph One

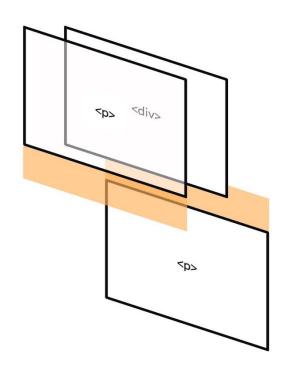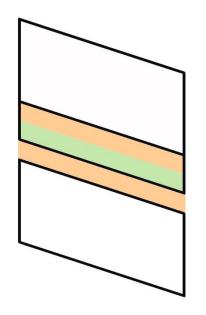Paragraph Two

margin-top: 24px

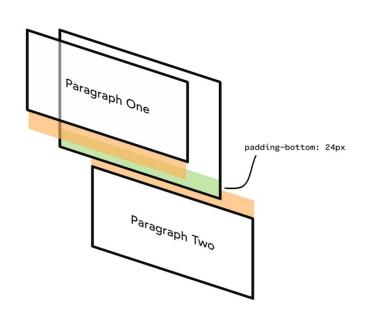# MARGIN COLLAPSING
Ook bij geneste elementen

MARGIN COLLAPSING
Geblokkeerd door padding of border

MARGIN COLLAPSING
niet bij horizontale marges