Tehnici Web CURSUL 4

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https://sites.google.com/site/fmitehniciweb/

CSS3 - transformari

Permit ca un element să-și schimbe poziția, forma și mărimea. CSS3 suporta transformari 2D și 3D.

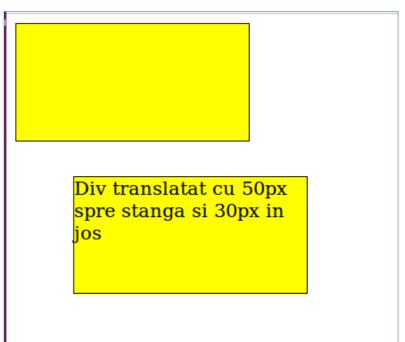
Sintaxa: transform:metoda(valori)

Metode de transformare 2D: translate(), rotate(), scale(), skew(), matrix()

```
transform: translate(tx,ty), translate(tx)(ty=0), translateX(tx), translateY(ty)
```

Muta elementul de la pozitia initiala, in functie de parametri dati pentru pozitionare: (axa-X) si (axa-Y)

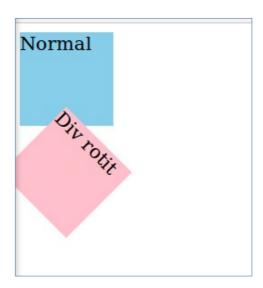
```
<style>
div {
  width: 200px;
  height: 100px;
  background-color: yellow;
  border: 1px solid black;
div.translatat{
  transform: translate(50px,30px);
</style>
</head>
<body>
<div class="normal">
</div>
<div class="translatat">
Div translatat cu 50px spre stanga si 30px in jos
</div>
</body>
```



transform: rotate(grade) (ex. 45deg, -45deg)

Rotește elementul în sensul acelor de ceas dacă valoarea grade este pozitiva și invers dacă valoarea este negativa

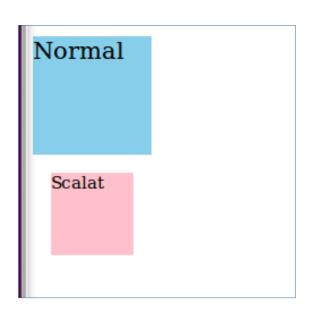
```
div {
 width: 80px;
 height: 80px;
 background-color: skyblue;
.rotit{
 transform: rotate(45deg);
 background-color: pink;
</style>
<body>
<div> Normal</div>
<div class="rotit">Div rotit</div>
</body>
```



```
transform: scale(sx,sy), scale(sx) (sy=sx), scaleX(sx), scaleY(sy)
```

Mărește sau micșorează dimensiunile elementului în funcție de parametrii sx și sy.

```
<style>
div {
 width: 80px;
 height: 80px;
 background-color: skyblue;
.scalat{
 transform: scale(0.7);
 background-color: pink;
</style>
<body>
<div>Normal</div>
<div class="scalat">Scalat</div>
</body>
```



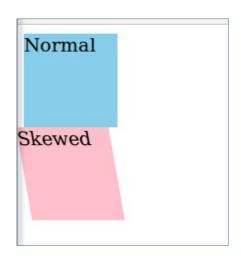
```
transform: skew(ax,ay), skew(ax) (ay=0), skewX(ax), skewY(ay)
```

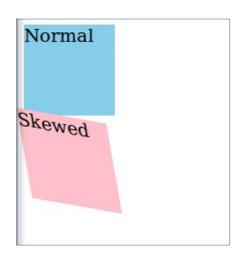
Distorsioneaza elementul (și continutul) de-a lungul axelor X și Y în funcție de parametrii specificati.

```
.skewed {
  transform: skew(10deg);
  background-color: pink;
```

```
<br/><body><br/><div>Normal</div><br/><div class="skewed">Skewed</div></body>
```

```
.skewed {
  transform: skew(10deg, 10deg);
  background-color: pink;
}
```





Observatii

Unui element i pot aplica mai multe transformari în același timp (exemplul 1).

Exemplul 1

```
element {
    transform: translate(25px,30px) rotate(45deg) scale(2);
    }
```

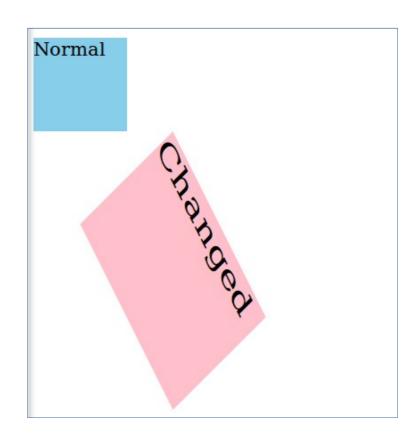
Exemplul 2

```
element {
    transform: translate(25px,30px);
    transform: rotate(45deg);
    transform: scale(2);
    }
```

În exemplul 2 se va face doar ultima transformare transform: scale(2).

transform: matrix(a,b,c,d,tx,ty)

```
<style>
div {
 width: 80px;
 height: 80px;
 background-color: skyblue;
.changed {
 transform: matrix(1, 2, -1, 1, 80, 80);
 background-color: pink;
</style>
</head>
<body>
<div>Normal</div>
<div class="changed">Changed</div>
</body>
```



CSS transformari 3D

Sunt extensii ale transformarilor 2D.

Efectul 3D se poate obtine folosind proprietatea perspective = distanta pe axa oz

translateZ(tz)
translate3d(tx,ty,tz)

rotateZ(az)
rotate3d(x,y,z,grade)

scaleZ(sz)
scale3d(sx,sy,sz)

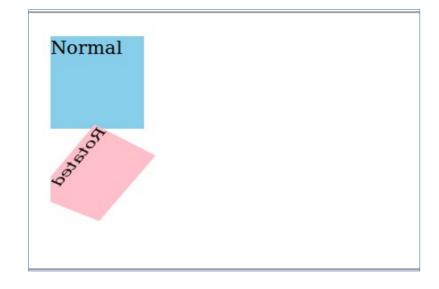
matrix3d(n,n,n,....,n) 16 valori

perspective(n)

```
body {
 perspective: 800px;
div {
 width: 80px;
 height: 80px;
 background-color: skyblue;
.rotated {
 transform: rotate3d(0, 1, 0, 60deg);
 background-color: pink;
</style>
</head>
<body>
<div>Normal</div>
<div class="rotated">Rotated</div>
</body>
```

```
.rotated {
  transform: rotate3d(1, 2, -1, 192deg);
  background-color: pink;
}
```





CSS3 - tranzitii

O tranzitie este declansata de un element

:hover, :focus, :active

Proprietatile necesare pentru a defini o tranzitie

```
transition-property: proprietatea CSS care va fi schimbata;
transition-duration: 2s (durata tranzitiei);
transition-timing-function: linear; (funcții predefinite)
/* ease, ease-in, ease-out, step-start, step-end */
transition-delay: 1s; (durata de așteptare înainte de inceperea
tranzitiei)
```

Se poate folosi în varianta prescurtata:

```
transition: margin-right 4s ease-in-out 1s;
```

Proprietati carora li se poate aplica o tranzitie

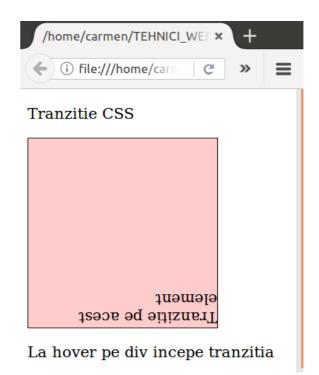
https://www.w3.org/TR/css3-transitions/#animatable-properties

Exemplu (ex1-tranzitie.html din exemple-curs4)

```
<style>
div {
  border-style: solid;
  border-width: 1px;
  display: block;
  width: 100px;
  height: 100px;
  background-color: #0000FF;
  transition: width 2s, height 2s, background-color
            2s, transform 2s;
div:hover {
  background-color: #FFCCCC;
  width: 200px;
  height: 200px;
  transform: rotate(180deg);
</style>
</head>
<body>
Tranzitie CSS
<div>Tranzitie pe acest element</div>
La hover pe div incepe tranzitia
</body>
```



La hover pe div incepe tranzitia



CSS-animatii

```
@keyframes nume-animatie{
    0% {background-color: red;}
    25% {background-color: green;} //pas intermediar
    75% {background-color: blue; }
    100% {background-color: yellow;}
}
```

```
@keyframes nume-animatie{
from {background-color:red;} //echivalent cu 0%

to {background-color: yellow;} //echivalent cu 100%
}
```

CSS-animatii

Exemplu (ex2-animatie.html din exemple-curs4)

```
animation-name: nume-animatie;
animation-duration: 5s (obligatorie);
animation-timing-function: linear
/* ease, ease-in, ease-out, ....*/}
animation-delay: 2s
animation-iteration-count: 10; /* infinite */
animation-direction:normal /* alternate */
reverse */
animation-fill-mode:none/*forwards/
backwards*/both*/
```

```
div {
  width: 100px:
  height: 100px;
  background-color: red;
  animation-name: exemplu;
  animation-duration: 4s;
  animation-iteration-count: infinite;
@keyframes exemplu {
  0% {background-color: red;}
  25% {background-color: yellow;}
  50% {background-color: blue;}
  100% {background-color: green;}
```

animation: nume-animatie 5s linear 2s infinit alternate;

// scurtatura pentru proprietatile de mai sus

Exemple: CSS-tranzitii și animatii

Tranzitie: Daca se ajunge cu mouse-ul pe un li dintr-o sublista, daca li-ul este pe o pozitie para, isi schimba culoarea de background treptat pe parcursul a doua secunde de la transparent la verde (si invers, cand se ia cursorul de pe li)

```
li li:nth-child(even) {
    transition: background-color 2s;
}
li li:nth-child(even):hover {
    background-color:green;
}
```

Animatie: Ultimul element al divului cu id-ul "parinte" să-și schimbe opacitatea de la 1 la 0.5 in timp de 4s, aceasta repetandu-se la infinit

```
div#parinte > :last-child {
   animation-name: myanimation;
   animation-duration: 4s;
   animation-iteration-count:infinite;
}
```

```
@keyframes myanimation {
  from {opacity: 1;}
  to {opacity: 0.5;}
}
```

Pagini web responsive - istoric

- Pana acum 15-20 ani siteurile web erau gândite să fie afisate pe ecrane de calculator/laptop
- La aparitia dispozitivelor mobile, cele mai multe siteuri arătau prost din cauza latimii reduse a ecranelor:
 - În unele cazuri apărea scroll orizontal
 - Layoutul cu mai multe coloane e incomod
 - Textul poate apărea prea mic



Ce înseamnă site responsive?

 Adaptarea dimensiunii şi a layoutului paginii web la dispozitivele utilizatorilor (ecran de telefon, tableta, calculator).

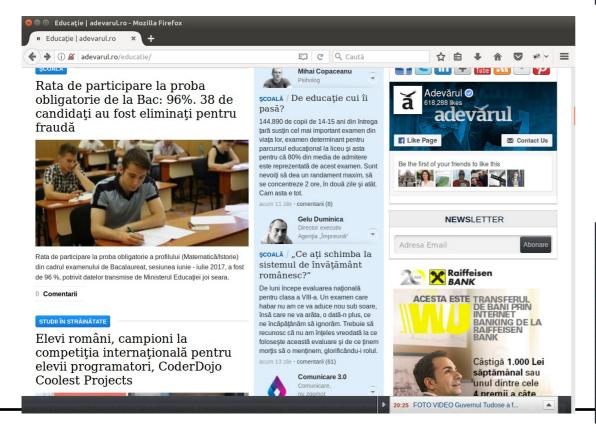
- Exista doua metode:
 - Adaptive/Mobil Friendly
 - Responsive Web Design

http://torquemag.io/responsive-design-vs-adaptive-design/

Adaptive/ Mobile Friendly

Aplicația server detecteaza dispozitivul utilizatorului și răspunde cu siteuri diferite.

Exemplu: m.adevarul.ro





Pagini web responsive

Ethan Marcotte (2010)

http://alistapart.com/article/responsive-web-design

Avantaje:

- O singură versiune de site care funcţionează bine pe orice dispozitiv.
- Posibilitatea de sharing a aceluiaşi URL între diverse dispozitive.
- Layout-ul se adaptează la browser, eliminând astfel scroll-ul orizontal.

Mecanisme

• Exista trei mecanisme care pot fi folosite:

- Media query
- Griduri fluide
- Imagini flexibile

Media queries

- Media query are doua componente:
- media type: screen, print, speech, all.
- media features: width, height, max-height, max-width,
 orientation: portrait, landscape, resolution, aspect-ratio, etc.

Media-query -sintaxa

media type and (med-feature1:value) and (med-feature2:value)...

Media queries

- HTML conține atributul media
 - Permite folosirea unor stiluri CSS diferite în funcție de proprietatile dispozitivului media care prelucreaza pagina (de ex. stiluri diferite pentru printare și afisare).

```
<head>
<link rel="stylesheet" type="text/css" media="screen" href="sans-serif.css">
    <link rel="stylesheet" type="text/css" media="print" href="serif.css">
    </head>
```

Media query - CSS

- CSS at-rule @media
 - @media media-query1, media-query2 { }

• Exemplu:

```
@media screen and (max-width: 960px) and
(min-width: 500px)
    {
      body { background-color: pink; }
}
```

Operatorul and cere ca ambele conditii pe care le leaga sa fie indeplinite.

```
@media screen and (min-width:250px) and (max-width:700px)
{ body{ background-color:blue; } }
```

Operatorul only e folosit mai mult pentru browsere mai vechi care nu-l recunosc si astfel css-ul din media query e ignorat.

@media only screen este echivalent cu @media screen

```
Operatorul not neaga conditia data
```

```
@media not all and (min-width:350px) and (max-width:550px) {body{background-color:blue;}}
```

```
Operatorul", " are rol de "sau" @media (min-width:500px), (max-width:300px) {body{background-color:blue;}}
```

CSS-media query

Permite definirea unui cod css care se va aplica doar in anumite conditii specificate de query

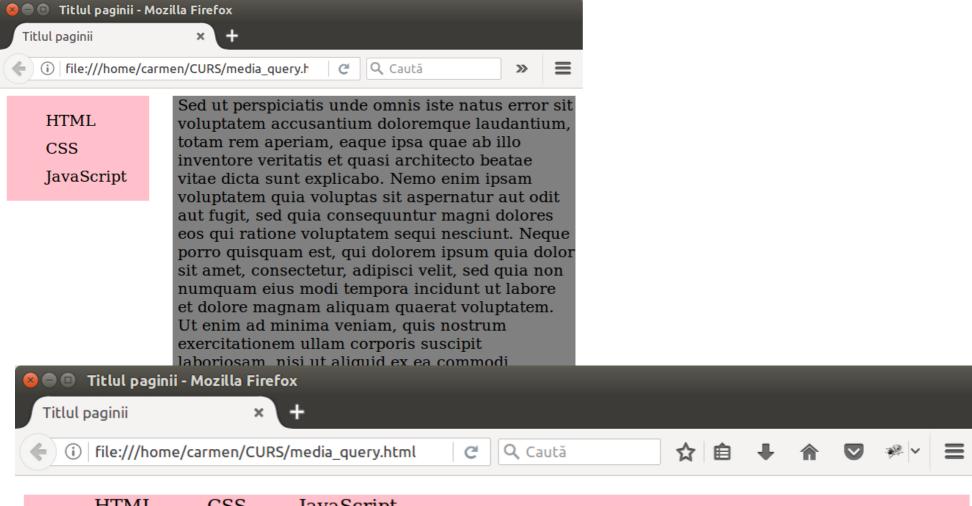
Exercitiu:

La latimea paginii sub 500px, divurile continute în elementul cu id-ul "container" trebuie sa se aseze unele sub altele si sa aiba latimea egala cu jumatate din latimea vieportului (nu a containerului). De asemenea divul cu id-ul "d3" trebuie sa nu se mai afiseze.

CSS-media query (media_query.html din exemple-curs4)

```
CSS:
#continut {background-color: grey;}
#meniu{background-color : pink;}
@media screen and (min-width:
768px) {
#meniu {width: 100%;}
#meniu li {display: inline; margin-left:
20px; margin-right: 20px;}
#continut {width: 100%;}
@media screen and (max-width:
768px) {
#meniu {width: 25%; float: left;}
#meniu ul {list-style-type: none;}
#meniu li {margin-top: 10px; margin-
bottom: 10px;}
#continut {width: 70%; float: right;
padding-left: 5px;}
```

```
<body>
<nav id="meniu">
   <l
       HTML
       CSS
       JavaScript
   </nav>
<div id="continut">
Sed ut perspiciatis unde omnis iste
natus error sit voluptatem accusantium
doloremque laudantium, totam rem
aperiam, eaque ipsa quae ab
</div>
</body>
```



HTML CSS JavaScript

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?

Griduri fluide

Setarea viewportului

```
<head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
```

Acesta indică browser-ului că pagina trebuie să fie scalată pentru a se potrivi pe dimensiunea ecranului.

Griduri fluide

http://alistapart.com/article/fluidgrids

 Pentru dimenionare se folosesc unități de măsura relative: procente, ems.

Exemplu:

body { font: normal 100% Helvetica }

/* browser default =16px */

```
Headline 1 - 20px
Headline 2 - 18px
Headline 3 - 16px
Main text - 14px
Sub text - 12px
Footnotes - 10px

Headline 1 - 1.25em (1.25 = 20 \div 16)
Headline 2 - 1.125em (1.25 = 18 \div 16)
Headline 3 - 1em (1em = 16px)
Main text - 0.875em (0.875 = 14 \div 16)
Sub text - 0.75em (0.75 = 12 \div 16)
Footnotes - 0.625em (0.625 = 10 \div 16)
```

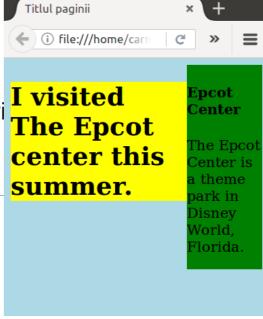
Transformare px -> em

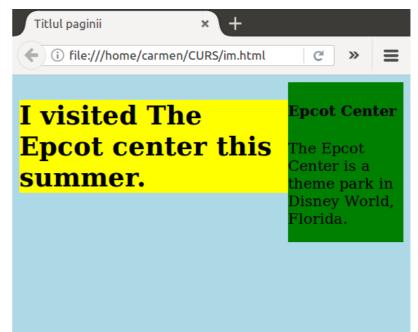
target ÷ context = result

Griduri fluide

```
<body>
                                                          Titlul paginii
<h1>I visited The Epcot center this summer.</h1>
                                                          file:///home/carn
<aside>
 <h4>Epcot Center</h4>
                                                         I visited
 The Epcot Center is a theme park in Disney World, Flori
                                                         The Epcot
</aside>
                                                         center this
</body>
                                                         summer.
body {background-color: lightblue;
```

```
font-size: 0.5em;
h1
   width: 70%;
   background-color: yellow;
   float: left;
   font-size:3.5em;
aside {
   width: 30%;
   background-color: green;
   float: left;
   font-size:2em;
```





Text responsive

Folosind media queries

```
@media screen and (min-
width:768px){
       body{font-size: 20px;}
@media screen and (max-width:
768px)
       body{font-size: 12px;}
h1
   {font-size: 3em;}
   {font-size: 1.2em;}
   {font-size: 0.87em;}
<body>
<h1>This is heading 1</h1>
<h2>This is heading 2</h2>
This is a paragraph.
Specifying the font-size î
em allows all major browsers
resize the text.
</body>
```



This is heading 1

This is heading 2

This is a paragraph.

Specifying the font-size in em allows all major browsers to resize the text. Unfortunately, there is still a problem with older versions of IE. When resizing the text, it becomes larger/smaller than it should.



This is heading 1

This is heading 2

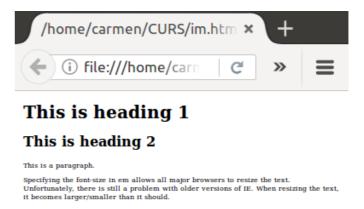
This is a paragraph.

Specifying the font-size in em allows all major browsers to resize the text. Unfortunately, there is still a problem with older versions of IE. When resizing the text, it becomes larger/smaller than it should.

Text responsive

Folosind unități de măsura ale viewportului: vw, vh, vmin, vmax

```
h1 {font-size: 5vw;}
  {font-size: 4vw;}
   {font-size: 2vw;}
<body>
<h1>This is heading 1</h1>
<h2>This is heading 2</h2>
This is a paragraph.
Specifying the font-size în
em allows all major browsers to
resize the text.
</body>
```





This is heading 1

This is heading 2

This is a paragraph.

Specifying the font-size in em allows all major browsers to resize the text. Unfortunately, there is still a problem with older versions of IE. When resizing the text, it becomes larger/smaller than it should.

Imagini fluide

• Elementele img, video, iframe nu se

dimensioneaza în HTML.

Exemplu:

```
#container{
        width:80%;
        border: 2px solid red;
        float: left;
<html>
<div id="container">
<img src="vara.jpg" alt="alta vara">
Croaziere in Marea Mediterana,
Nordul Europei, Caraibe, America de
Sud, Oceanul Indian, Asia.
Planuiesti o coaziera de vis?
</div>
</html>
```



Imagini fluide

Rezolvare

```
img{
   width:100%;
   height:auto;
}
```

```
img{
   max-width:100%;
   height:auto;
}
```



Croaziere in Marea Mediterana, Nordul Europei, Caraibe, America de Sud, Oceanul Indian, Asia. Planuiesti o coaziera de vis?



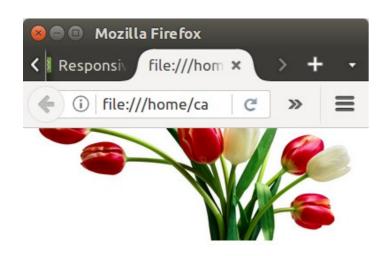
Croaziere in Marea Mediterana, Nordul Europei, Caraibe, America de Sud, Oceanul Indian, Asia. Planuiesti o coaziera de vis?

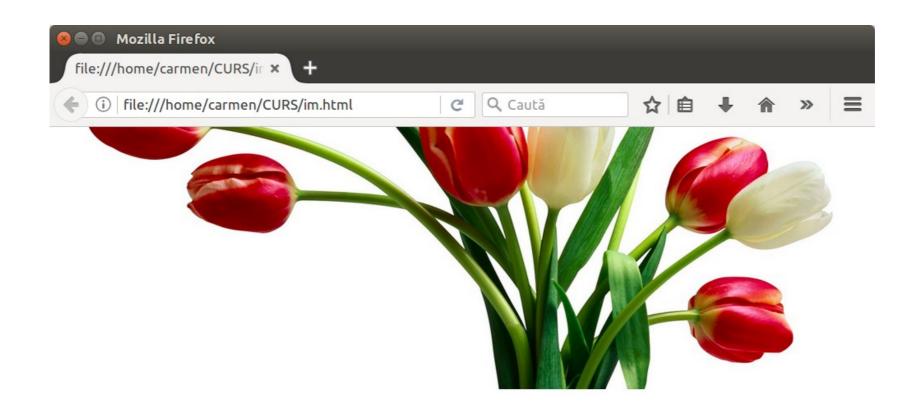
Imagini de background fluide

```
background-image:url (adresa-imagine);
background-size:cover;
```

imaginea acopera intregul container

```
body {margin-left:auto; margin-right:auto; width:80%;
    background-image:url(Flori.jpg);
    background-position: center center;
    background-repeat: no-repeat;
    background-size:cover;}
```

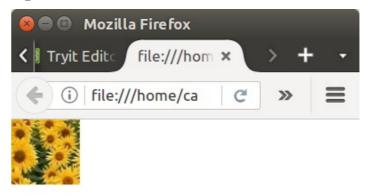




Exemplu

```
body {
    background-repeat: no-repeat;
    background-image:
        url(Vara-mica.jpg);
}

@media screen and (min-width: 400px)
{
    body {
        background-image:
            url(Vara-mare.jpg);
    }
}
```





CSS-aliniere pe orizontala: centrare

Pentru elemente block se folosesc proprietatile margin și width cu valorile:

```
margin-left: auto
margin-right: auto
width setat, diferit de 100%
```

```
<style>
div {
 margin-left:auto;
 margin-right:auto;
 width: 300px;
 height: auto;
 background-color: skyblue;
h1{text-align:center;}
</style>
</head>
<body>
<h1>Centrare element block</h1>
<div>Div centrat
Paragraf 1
Paragraf 2
Paragraf 3
</div>
</body>
```



CSS-aliniere pe orizontala: centrare

Pentru elemente inline se foloseste proprietatea display cu valoarea display:block după care se aliniaza ca un element block

```
<style>
h1,p {text-align:center;}
a {display:block; margin:auto;
    width:100px;}
img {display:block; margin:auto;
    width:150px; height:90px;}
</style>
</head>
<body>
<h1>Centrare elemente inline</h1>
<a href="toamna.html">Toamna</a>
O poza de toamna
<img src="toamna.jpg" alt="poza">
</body>
```



CSS-aliniere pe orizontala: stânga, dreapta

O metoda pentru aliniere de elemente la stânga sau la dreapta:

```
position: absolute;
```

right: Opx sau left: Opx

```
<style>
h1 {text-align:center;}
img {position:absolute; right:0px;
    width:150px; height:90px;}
</style>
</head>
<body>
<h1>Aliniere imagine la dreapta</h1>
O poza de toamna
<img src="toamna.jpg" alt="poza">
</body>
```

Aliniere imagine la dreapta

O poza de toamna



CSS-aliniere pe orizontala: stânga, dreapta

O alta metoda pentru aliniere de elemente la stânga sau la dreapta:

```
float: left /*right*/;
```

```
<style>
body{margin:0px; padding:0px;}
h1 {text-align:center;}
img {float:left;
width:150px; height:90px;}
</style>
</head>
<body>
<h1>Aliniere imagine la stanga</h1>
O poza de toamna
<img src="toamna.jpg" alt="poza">
</body>
```

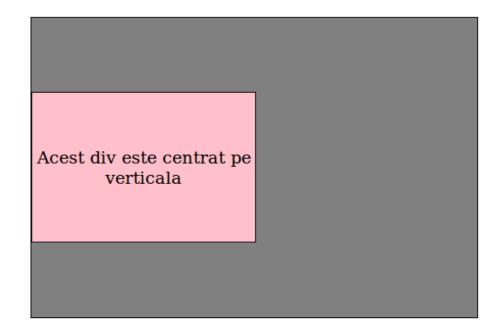


CSS-centrare pe verticala

O metoda pentru centrarea pe verticala este cu ajutorul proprietatii padding cu padding-top, padding-bottom egale

```
<style>
div.parinte{ width: 30%;
        padding: 70px 0;
        border: 1px solid black;
        margin-left:10px;
        background-color:grey;
div.copil{padding: 35px 0;
      width:50%;
      border: 1px solid black;
      background-color:pink;
      text-align:center;
</style>
</head>
<body>
<h1>Centrare pe verticala</h1>
<div class="parinte">
<div class="copil">
 Acest div este centrat pe
verticala
</div>
</div>
</body>
```

Centrare pe verticala



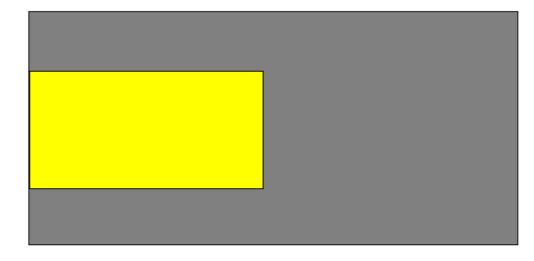
CSS- aliniere pe verticala

O alta metoda pentru centrarea pe verticala este cu proprietatile line-height și vertical-align:

line-height şi height egale pentru elementul părinte vertical-align: middle/* top/* bottom pentru elementul copil display: inline-block; pentru elementul copil de tip block

```
<style>
.parinte {line-height:200px;
        height:200px; width:30%;
        border: 1px solid black;
        margin-left:10px;
        background-color:grey;
.copil {display:inline-block;
       vertical-align:middle; /*top, bottom*/
       width:200px;height:100px;
      border: 1px solid black;
      background-color:yellow; }
</style>
</head>
<body>
<h1>Centrare pe verticala</h1>
<div class="parinte">
<div class="copil"></div>
</div>
</div>
```

Centrare pe verticala



CSS-layout: multicoloane

Permite aranjarea textului pe mai multe coloane.

column-gap: spaţiul dintre coloane
column-rule-style: stilul liniei care desparte coloanele
column-rule-width:grosimea liniei dintre coloane
column-rule-color: culoarea liniei dintre coloane
column-rule: grosime stil culoare
column-span:cate coloane ocupa un element
column-width: latimea unei coloane

column-count si column-width se determina una pe cealalta

```
#col1{ column-width: 100px;
    column-gap: 6px;
    column-rule: 3px solid red;
#col2{ column-count: 4;
    column-gap: 10px;
    column-rule: 4px dotted black;
```

```
<body>
<h1>multiple colums</h1>
Lorem ipsum dolor
sit amet,....
Aliquam lectus
odio,.....>
</body>
```



multiple columns

Lorem	vitae enim	rhoncus.	viverra nisl	suscipit	imperdiet	leo euismod	purus.	placerat	id metus	Curabitur	sem. Morbi	neque.
ipsum dolor	interdum	Nam at	lobortis ut.	porttitor.	ullamcorper.	ante, et	Quisque	ligula. Ut	fermentum	venenatis	malesuada,	Donec
sit amet,	lobortis.	iaculis	Morbi et	Sed turpis	Fusce	luctus elit	fringilla	imperdiet,	lacinia. Sed	metus in	dui vel	molestie
consectetur	Duis	dolor. Proin	arcu eget	nunc,	laoreet	sem eu mi.	ante at	libero in	in blandit	vulputate	molestie	felis vel mi
adipiscing	euismod	at facilisis	purus	luctus id	fermentum	Duis	risus	iaculis	est, at	iaculis.	congue,	mollis, nec
elit. Nam	condimentur	deo, non	tristique	interdum	dui in	adipiscing	tempus, in	egestas,	vehicula	Quisque	sem dolor	suscipit
tempus	lacus, eget	ullamcorper	tempus.	nec,	tempor.	nibh sit	tristique	eros ante	tellus.	augue nisi,	aliquet	risus
rhoncus	hendrerit	urna.	Duis ac	suscipit sed	Nam	amet	nisi	pharetra	Integer	bibendum	diam, eget	malesuada.
ante	nisi semper	Mauris	urna leo.	lectus. Nam	rhoncus,	egestas	accumsan.	lacus, a	vulputate	vitae nulla	iaculis mi	
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In in nibh	suscipit	nibh, ac	enim ac	enim	porta, nisi	quam	sem, non	In eget orci	bibendum.	facilisis	quis massa	

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ut, elementum at nibh. Ut sodales est ut porttitor vel. In non eros a sapien elit tincidunt conque. Fusce tincidunt inunc ut elit sollicitudin interdum ut euismod elit. Nulla molestie tincidunt :lectus et viverra. Cras arcu risus, faucibus et tellus in, condimentum tincidunt risus. Vivamus imperdiet odio et nisl mattis eleifend sed sagittis ipsum. : Morbi arcu dolor, ultricies eu orci ac. pharetra vulputate enim. Mauris cursus tempor rutrum. In hac habitasse platea: dictumst. In ut placerat felis, ac tempor :erat. Curabitur a leo eget mi semper consequat sed sit amet diam. Proin

adipiscing scelerisque. Maecenas nisl :leo, scelerisque nec orci suscipit, tristique pharetra liquia. Sed et eleifend felis. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Integer sit amet ·lectus sit amet leo blandit malesuada scelerisque eu eros. In urna turpis, vehicula eu orci semper, dapibus rhoncus neque. Mauris non tortor enim. Suspendisse hendrerit purus non ipsum :feugiat, quis fermentum dui ultricies. Aliquam eu sapien a elit ullamcorper venenatis. Vestibulum tincidunt odio

:vitae quam condimentum, sit amet fringilla enim vehicula. Nulla ullamcorper mauris nec tellus rutrum, quis facilisis urna pulvinar. Nulla urna turpis, consequat eget posuere guis, dictum sed nibh. Sed tristique eros vitae facilisis pulvinar. Maecenas est risus, posuere in arcu et. auctor sagittis metus. Sed augue leo, placerat quis leo in, semper vehicula dolor. Nam sit amet :consectetur velit, eget tempor purus. Cras urna purus, feugiat ut pharetra in, tempus ac augue. Integer libero risus, venenatis eu sodales at, cursus pharetra :ligula.

CSS3- gradienti

Gradient: tranzitie de la o culoare la alta

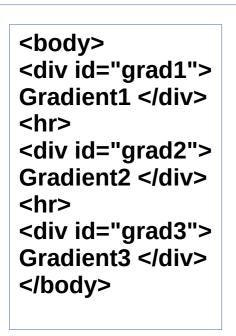
Linear gradient

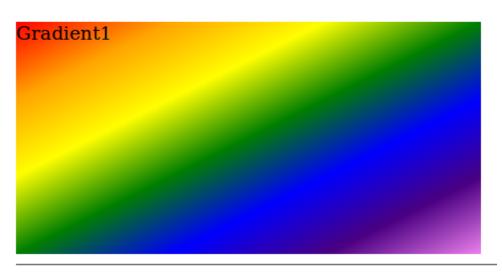
background: linear-gradient(directia, culoare1,culoare 2,...)

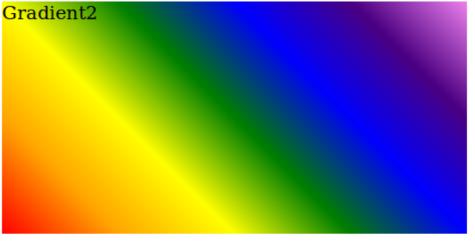
```
direcţia : to bottom (implicit) /*
to right ,
to left,
to top,
to bottom right,
unghi( 45deg) */
```

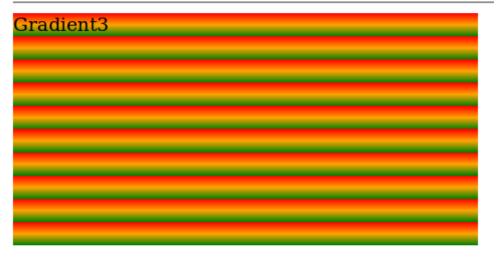
```
background: linear-gradient(to right, black, white);
background: linear-gradient(45deg, black, white);
background: repeating-linear-gradient(red, yellow 10%, green 20%);
```

```
div{ width: 400px; height:200px;}
#grad1 {
  background: linear-gradient(to right
bottom, red, orange, yellow, green,
blue, indigo, violet);
#grad2 {
  background: linear-gradient(45deg,
red, orange, yellow, green, blue, indigo,
violet);
#grad3 {
  background: repeating-linear-
gradient(red, orange 5%, green 10%);
```









Radial gradient

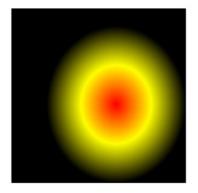
background: radial-gradient (shape size at position, start-color, ..., last-color)

shape : ellipse (implicit) /* circle*/

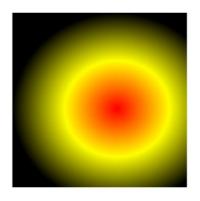
size : closest-side, farthest-side, closest-corner, farthest-corner (implicit)

position: center (implicit) 10%,60%

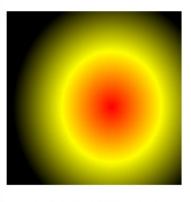
closest-side:



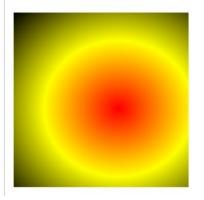
farthest-side:



closest-corner:



farthest-corner (t



```
#gr1 {background:
radial-gradient (circle at 50% 50%,
black, white);}

#gr2 {
background: radial-gradient( ellipse,
red, blue, aqua,white);}

#gr3{ background: repeating-radial-
gradient(red, yellow 10%, green 15%);}
```


div id="gr1">

Gradient1 </div>

<hr>

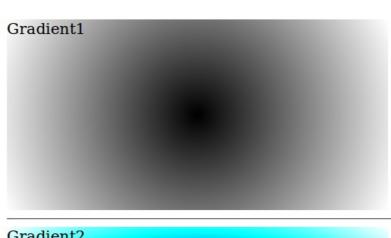
<div id="gr2">

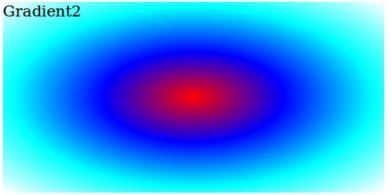
Gradient2 </div>

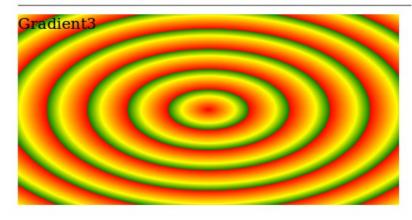
<hr><div id="gr3">

Gradient3 </div>

</body>







CSS3: border-radius (border cu colturi rotunjite)

border-radius: reuniune a proprietatilor border-top-left-radius, border-top-right-radius, border-bottom-right-radius, border-bottom-left-radius. Patru valori: 15px 50px 30px 5px:



Trei valori: 15px 50px 30px:



Doua valori: 15px 50px:



O valoare: 30px:

