

Internet Programming

Web Page Graphic Design

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Figure Boxes

- figure and figcaption elements:
 - The figcaption element is optional and can be be placed directly before or after a figure box content
- General syntax to create a figure box:

```
<figure>
  content
  <figcaption>caption text</figcaption>
</figure>
```

where content is the content appearing in a figure box and caption text is the description text that accompanies the figure

Figure Boxes (con't)

CSS styles can be set for both the figure and figcaption, as:

```
<style>
figure {
    display: block;
    margin-top: 1em;
    margin-bottom: 1em;
    margin-left: 40px;
    margin-right: 40px;
}
</style>
```

```
caption associated
with the image

caption associated
caption asso
```

Background Styles

The use of images for backgrounds is supported by CSS using the following background-image style:

```
background-image: url(url);
where url specifies the name and location of the background image
```

- **Tiling** is the process of repeating an image both vertically and horizontally until the background is filled
- The type of tiling can be specified by applying the following background-repeat style:

```
background-repeat: type;
where type can be repeat (the default), repeat-x,
repeat-y, round, Or space
```

Repeating An Image

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
    background-image: url("paper.gif");
    background-repeat: repeat-y;
}
</style>
</head>
<body>
<h1>The background-repeat Property</h1>
Here, the background image is repeated only vertically.
</body>
</html>
```

The background-repeat Property

Here, the background image is repeated only vertically.

Repeating An Image (con't)

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
 background-image: url("paper.gif");
 background-repeat: repeat-x;
</style>
</head>
<body>
<h1>The background-repeat Property</h1>
Here, the background image is repeated only horizontally.
</body>
</html>
```

The background-repeat Property

Here, the background image is repeated only horizontally.

Repeating An Image (con't)

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
    background-image: url("paper.gif");
    background-repeat: repeat;
}
</style>
</head>
<body>
<h1>The background-repeat Property</h1>
Here, the background image is repeated both vertically and horizontally.
</body>
</html>
```

The background-repeat Property

Here, the background image is repeated both vertically and horizontally.

Repeating An Image (con't)

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
 background-image: url("paper.gif");
 background-repeat: no-repeat;
</style>
</head>
<body>
<h1>The background-repeat Property</h1>
Here, the background image is not repeated. The image will only be shown once.
</body>
</html>
```

The background-repeat Property

Here, the background image is not repeated. The image will only be shown once.

Background Styles (con't)

- A background image is attached to its element so that it scrolls when the element content is scrolled
- The attachment can be changed using the following property:

```
background-attachment: type;
```

where type is scroll (the default), fixed, or local

- type in the background-attachment property:
 - scroll sets the background to scroll with the element content
 - fixed creates a background that stays in place even as the element content is scrolled
 - local allows the element background to scroll along with the content within the box

Background Image Position

- Watermarks are translucent graphics displayed behind a content
- They can be created using fixed backgrounds
- They are often used to indicate that a content material is copyrighted
- By default, background images are placed in an element's top-left corner
- The following property can be used to set the position of a background image:

background-position: horizontal vertical;

where horizontal and vertical provide the coordinates of an image within the element background

Background Image Position (con't)

- Keywords to position a background image are as follows:
 - left, center, and right are used to position the background horizontally
 - top, center, and bottom are used to position the background vertically
- The background-position property is only useful for non-tiled images

Background Image Clip

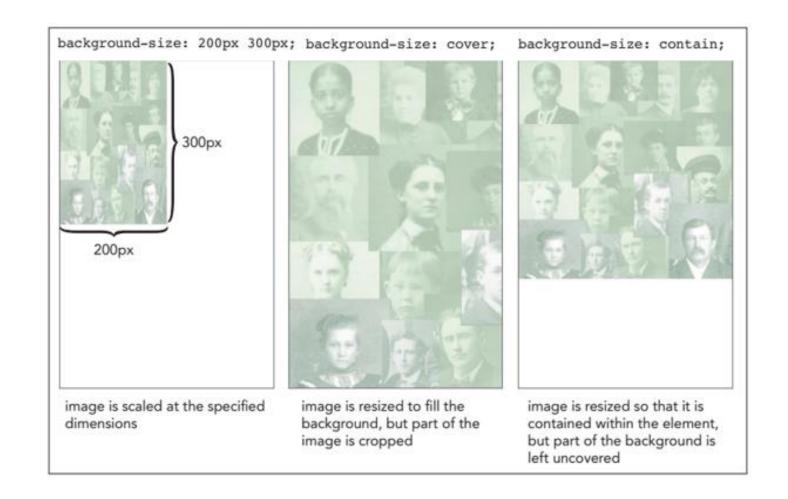
- An element's background extends only through the padding space excluding the border space
- This can be changed using the following property: background-clip: type;
- type in the background-clip property:
 - content-box extends the background only through the element content
 - padding-box extends the background through the padding space
 - border-box extends the background through the border space

Background Image Size

- By default, the size of a background image equals the size stored in its image file
- This size can be changed by using the following property:

```
background-size: width height; where width and height can be specified in pixels or by using the keywords auto, cover, and contain
```

Background Image Size (con't)



Background Styles (con't)

Different background options can be organized using the following property:

```
background: color url(url) position/size repeat attachment origin clip;
```

where color is the background color, url is the source of the background image, and position is the image's position

size sets the image size

repeat sets the tiling of the image

attachment specifies whether the image scrolls with the content or is fixed

origin defines how positions are measured on the background clip specifies the extent over which the background is spread

Background Styles (con't)

Multiple backgrounds can be added to a single element by listing the backgrounds in the following comma-separated list:

```
background: background1, background2,
...;
```

```
/* Article Styles */
places the second background
                                                                             commas used to separate one
image at the lower-left corner of
                                                                             background from the next
                                  article {
the article content with no tiling
                                       background: url(tb_back2.png) bottom right / 15% no-repeat content-box,
and a width of 15%
                                                 ➤ url(tb_back3.png) bottom left / 15% no-repeat content-box,
                                                ➤ url(tb_back4.png) 100% / cover no-repeat,
                                                    rgb(211, 211, 211);
places the third background
image, scaled to cover all of the
padding box of the article
                                                  uses a gray color as the background
without repeating
                                                  if the browser doesn't support
                                                  background images
```

Borders

- There are several style properties that can be used to format the border around each element using CSS
- To define the thickness of a specific border, the following property can be used:

```
border-side-width: width;
where side is either top, right, bottom, or left and
width is the width of the border in one of the CSS units of
measure
```

The appearance of borders can be further defined by using the following style:

```
border-side-style: style;
```

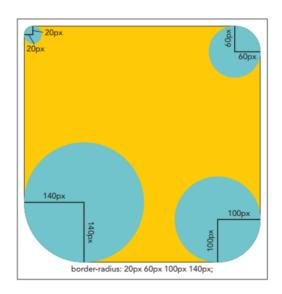
where side in indicates the border side and style specifies one of the nine border styles

```
/* Page Body Styles */
adds a 1-pixel solid
                         body {
gray border to the
                            border-left: 1px solid rgb(51, 51, 51);
                            border-right: 1px solid rgb(51, 51, 51);
left and right edges
of the page body
                         /* Aside Styles */
adds a 4-pixel double
                         aside {
medium green border
                           border: 4px double rgb(45, 93, 62);
to the aside element
```

Any of the four corners of a border can be rounded off by applying the following property:

```
border-radius: top-left top-right bottom-right
bottom-left;
```

where top-left, top-right, bottom-right, and bottom-left are the radii of the individual corners

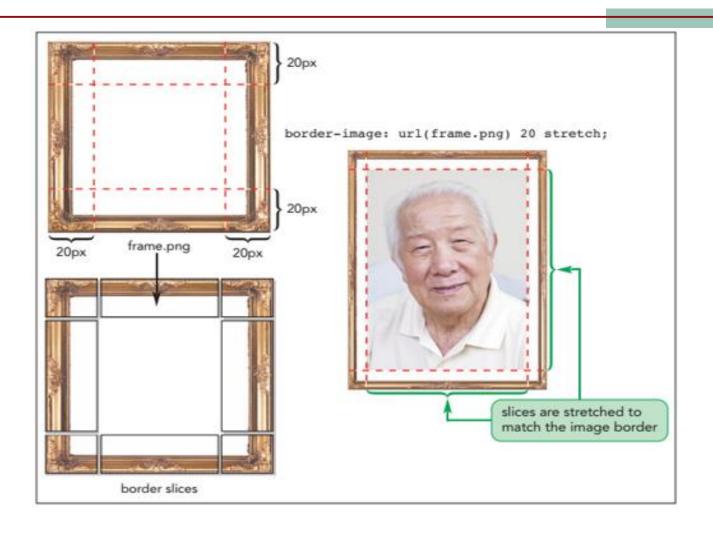


```
sets the radius at each border corner to 30 pixels

aside {
border: 4px double rgb(45, 93, 62);
border-radius: 30px;
}
```



- A border image is a border based on a graphic image
- The graphic image is sliced into nine sections representing the four corners, the four sides, and the interior piece
- The content of the object appears in the interior piece and this piece is discarded
- The four corners become the border corners
- The four sides are either stretched or tiled to fill in the border's top, right, bottom, and left sides



Border image uses the following property:

border-image: url(url) slice repeat fill; where url is the source of the graphic image, slice is the width or height of the slices used to create the sides and corners, repeat indicates whether the side slices should be stretched or tiled to cover the border's four sides, and fill is an optional attribute that fills the image background with the graphic image file

- The repeat option supports:
 - stretch: slices are stretched to fill each side
 - repeat: slices are tiled to fill each side
 - round: when the slices are tiled to fill each side, if they do not fill the sides with an integer number of tiles, the slices are rescaled until they do
 - space: when the slices are tiled to fill each side, if they do not fill the sides with an integer number of tiles, extra space is distributed around the tiles

Shadow Styles

■ To give the text on a page visual impact, use CSS to add a shadow using the following text-shadow property:

```
text-shadow: color offsetX offsetY
blur;
```

where color is the shadow color

offsetX and offsetY are the distances of the shadow from the text in the horizontal and vertical directions

blur defines the amount by which the shadow spreads out, creating a blurred effect

```
<!DOCTYPE html>
<html>
<head>
<style>
h1 {
 text-shadow: 2px 2px #FF0000;
</style>
</head>
<body>
<h1>The text-shadow Property</h1>
<b>Note:</b> Internet Explorer 9 and earlier do not support the text-shadow
property.
</body>
</html>
```

The text-shadow Property

Note: Internet Explorer 9 and earlier do not support the text-shadow property.

```
article {
    background: url(tb_back2.png) bottom right / 15% no-repeat content-box,
                url(tb_back3.png) bottom left / 15% no-repeat content-box,
                url(tb_back4.png) 100% / cover no-repeat,
                                                              light green text
                rgb(211, 211, 211);
                                                              shadow with hard
                                                              edges
article header h1 f
                                                              semi-transparent
   text-shadow: rgb(181, 211, 181) 2px 2px 1px,
                                                              gray shadow
                rgba(21, 21, 21, 0.66) 5px 5px 25px;
                                                              with soft edges
                shadow
                                                       blur
                            horizontal
                                           vertical
                color
                            offset
                                                       size
                                           offset
```

Any block element can be shadowed by using the box-shadow property

```
box-shadow: color offsetX
offsetY blur;
```

- where color, offsetX, offsetY, and blur have the same meanings for box shadows as they do for text shadows
- Multiple shadows can be added by including them in a comma-separated list

```
<!DOCTYPE html>
<html>
<head>
<style>
#example1 {
 border: 1px solid;
 padding: 10px;
 box-shadow: 5px 10px;
#example2 {
 border: 1px solid;
 padding: 10px;
 box-shadow: 5px 10px #888888;
#example3 {
 border: 1px solid;
 padding: 10px;
 box-shadow: 5px 10px red;
</style>
</head>
<body>
<h1>The box-shadow Property</h1>
The box-shadow property defines the shadow of an element:
<h2>box-shadow: 5px 10px:</h2>
<div id="example1">
 A div element with a shadow. The first value is the horizontal offset and the second value is the vertical
offset. The shadow color will be inherited from the text color.
</div>
<h2>box-shadow: 5px 10px #888888:</h2>
<div id="example2">
 You can also define the color of the shadow. Here the shadow color is grey.
kh2>box-shadow: 5px 10px red:</h2>
<div id="example3">
 A red shadow.
</div></body></html>
```

The box-shadow Property

The box-shadow property defines the shadow of an element:

box-shadow: 5px 10px:

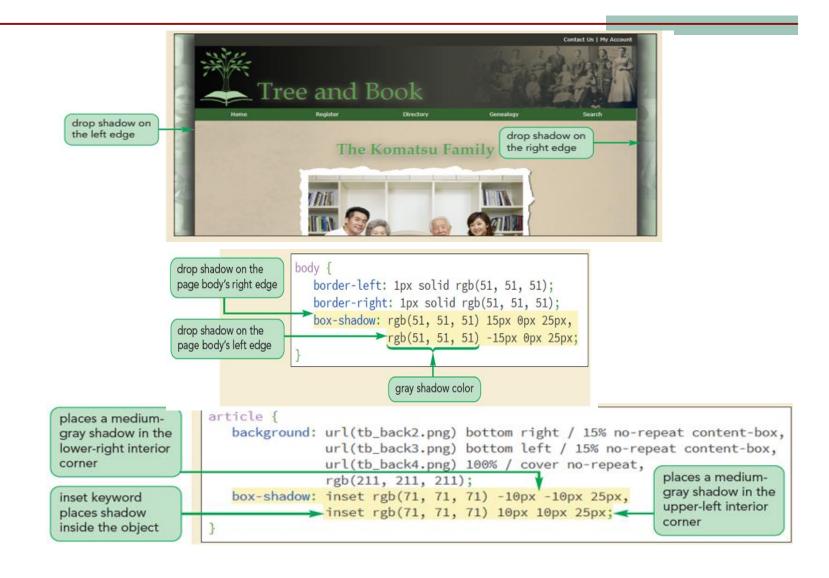
A div element with a shadow. The first value is the horizontal offset and the second value is the vertical offset. The shadow color will be inherited from the text color.

box-shadow: 5px 10px #888888:

You can also define the color of the shadow. Here the shadow color is grey.

box-shadow: 5px 10px red:

A red shadow.



Color Gradient

Color gradient:

- One color gradually blends into another color or fades away if transparent colors are used
- It can be used to modify a background color
- CSS allows two types of gradients
 - Linear Gradients (goes down/up/left/right/diagonally)
 - Radial Gradients (defined by their center)
- A linear gradient is a color gradient in which the background color transitions from a starting color to an ending color along a straight line

Linear gradients are created using the lineargradient function:

```
linear-gradient (color1, color2, ...)
```

- where color1, color2, and so on are the colors that blend into one another starting from color1, through color2, and onto the last color listed
- The following gradient starts with a solid red, solid green appears halfway through the gradient, and finishes with solid blue:

```
background: linear-gradient(red, green, blue)
```

```
<!DOCTYPE html>
<html>
<head>
<style>
#grad1 {
 height: 200px;
 background-color: red; /* For browsers that do not support gradients */
 background-image: linear-gradient(red, yellow);
</style>
</head>
<body>
<h1>Linear Gradient - Top to Bottom</h1>
This linear gradient starts red at the top, transitioning to yellow at the
bottom:
<div id="grad1"></div>
</body>
</html>
```

Linear Gradient - Top to Bottom

This linear gradient starts red at the top, transitioning to yellow at the bottom:

```
<!DOCTYPE html>
<html>
<head>
<style>
#grad1 {
 height: 200px;
 background-color: red; /* For browsers that do not support gradients */
 background-image: linear-gradient(to right, red , yellow);
</style>
</head>
<body>
<h1>Linear Gradient - Left to Right</h1>
This linear gradient starts red at the left, transitioning to yellow (to the
right):
<div id="grad1"></div>
</body>
</html>
```

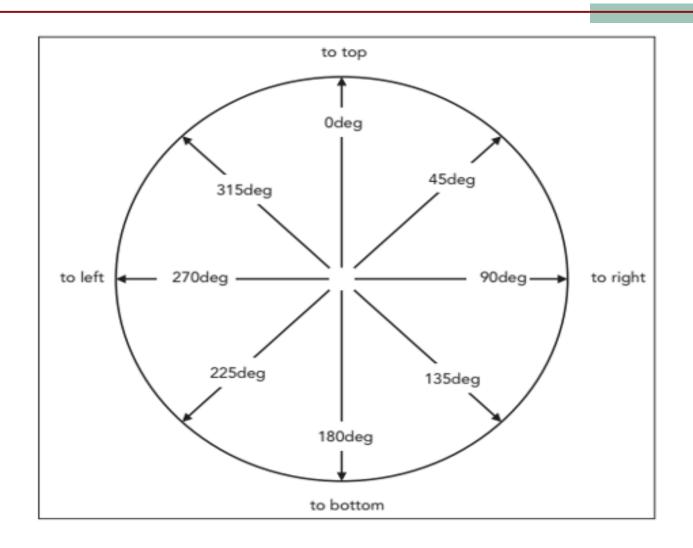
Linear Gradient - Left to Right

This linear gradient starts red at the left, transitioning to yellow (to the right):

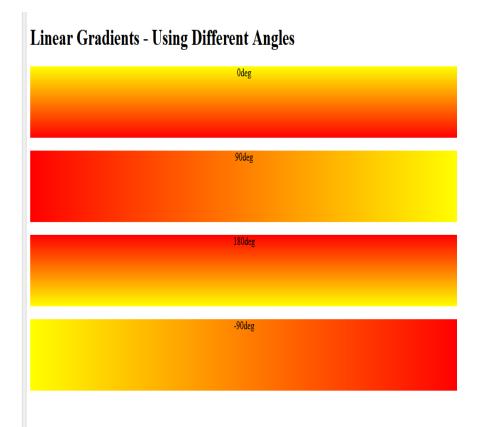
```
<!DOCTYPE html>
<html>
<head>
<style>
#grad1 {
 height: 200px;
  background-color: red; /* For browsers that do not support gradients */
 background-image: linear-gradient(to bottom right, red, yellow);
</style>
</head>
<body>
<h1>Linear Gradient - Diagonal</h1>
This linear gradient starts red at top left, transitioning to yellow (at bottom)
right):
<div id="grad1"></div>
</body>
</html>
```

Linear Gradient - Diagonal

This linear gradient starts red at top left, transitioning to yellow (at bottom right):



```
<!DOCTYPE html>
<html>
<head>
<style>
#grad1 {
 height: 100px;
 background-color: red; /* For browsers that do not support gradients */
  background-image: linear-gradient(0deg, red, yellow);
#grad2 {
 background-color: red; /* For browsers that do not support gradients */
 background-image: linear-gradient(90deg, red, yellow);
#grad3 {
 height: 100px:
  background-color: red; /* For browsers that do not support gradients */
 background-image: linear-gradient(180deg, red, yellow);
#grad4 {
 height: 100px;
 background-color: red; /* For browsers that do not support gradients */
  background-image: linear-gradient(-90deg, red, yellow);
</style>
</head>
<body>
<h1>Linear Gradients - Using Different Angles</h1>
<div id="grad1" style="text-align:center;">0deg</div><br>
<div id="grad2" style="text-align:center;">90deg</div><br>
<div id="grad3" style="text-align:center;">180deg</div><br>
<div id="grad4" style="text-align:center;">-90deg</div>
</body>
</html>
```



- A radial gradient is a color gradient that starts from a central point and proceeds outward in a series of concentric circles or ellipses
- Radial gradients are created using:

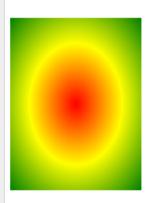
```
radial-gradient(shape size at position, color-stop1, color-stop2, ...)
```

The shape value defines the shape of the gradient and is either ellipse (default) or circle

- The position defines where the gradient radiates from and can be expressed in coordinates using pixels, percentages of the element's width and height, or with the keywords: left, center, right, top, and bottom
- The default is to place the gradient within the center of the background

```
<!DOCTYPE html>
<html>
<head>
<style>
#grad1 {
 height: 150px;
 width: 200px;
 background-color: red; /* For browsers that do not support gradients */
 background-image: radial-gradient(red, yellow, green);
</style>
</head>
<body>
<h1>Radial Gradient - Evenly Spaced Color Stops</h1>
<div id="grad1"></div>
</body>
</html>
```

Radial Gradient - Evenly Spaced Color Stops



- The color-stop1, color-stop2 ... values are the colors and their stopping positions within the gradient and have the same interpretation used for linear gradients except they mark stopping points as the gradient radiates outward
- The color stops are optional, just as they are in linear gradients

```
<!DOCTYPE html>
<html>
<head>
<style>
#grad1 {
 height: 150px;
 width: 200px;
 background-color: red; /* For browsers that do not support gradients */
 background-image: radial-gradient(red 5%, yellow 15%, green 60%);
</style>
</head>
<body>
<h1>Radial Gradient - Differently Spaced Color Stops</h1>
<div id="grad1"></div>
</body>
</html>
```

Radial Gradient - Differently Spaced Color Stops



- The size value defines the extent of the gradient as it radiates outward and can be expressed with a CSS unit of measure, a percentage of the background's width and height, or with one of the following keywords:
 - farthest-corner (default): Gradient extends to the background corner farthest from the gradient's center
 - farthest-side: Gradient extends to background side farthest from the gradient's center
 - closest-corner: Gradient extends to the nearest background corner
 - closest-side: Gradient extends to the background side closest to the gradient's center

Opacity

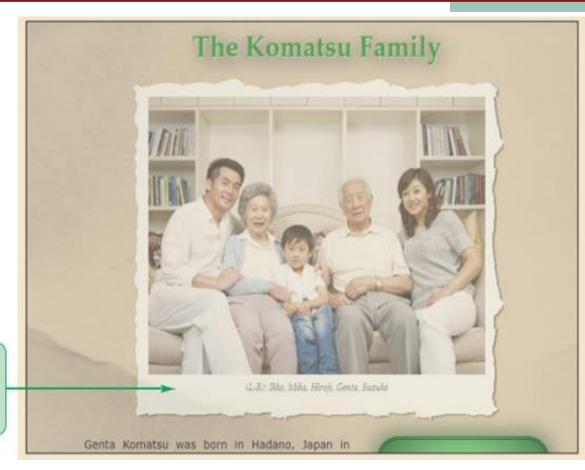
Semi-Transparent colors can be created using the following opacity property:

```
opacity: value;
```

where value ranges from 0 (completely transparent) up to 1 (completely opaque)

```
figure {
    border-style: solid;
    border-width: 25px;
    border-image: url(tb_border.png) 50 repeat;
    margin: 20px auto 0px;
    opacity: 0.55;
    width: 80%;
}
```

Opacity (con't)



part of the background page texture shows through in the figure box

Transformations

Rotation, rescaling, and translation in space can be used to transform the appearance of page objects

```
transform: effect(params);
```

where effect is the transformation function that will be applied to page objects and params specify the parameters required by the transformation function

Function	Description
translate(offX, offY)	Moves the object $offX$ pixels to the right and $offY$ pixels down; negative values move the object to the left and up
translateX(<i>offX</i>)	Moves the object $offX$ pixels to the right; negative values move the object to the left
translateY(offY)	Moves the object offy pixels down; negative values move the object up
scale(x, y)	Resizes the object by a factor of x horizontally and a factor of y vertically
scaleX(x)	Resizes the object by a factor of x horizontally
scaleY(y)	Resizes the object by a factor of y vertically
skew(angleX, angleY)	Skews the object by <pre>angleX</pre> degrees horizontally and <pre>angleY</pre> degrees vertically
skewX(<i>angleX</i>)	Skews the object by angleX degrees horizontally
skewY(angleY)	Skews the object by angley degrees vertically
rotate(angle)	Rotates the object by angle degrees clockwise; negative values rotate the object counter-clockwise
matrix(n, n, n, n, n, n)	Applies a 2D transformation based on a matrix of six values

```
/* Transformation Styles */
rotates the box 40°
                                                                      reduces the box size to
counter-clockwise
                                                                      80% of its original size
                     figure#figure2 {
                        transform: rotate(-40deg) scale(0.8, 0.8) translate(20px, -100px);
                        box-shadow: rgb(101, 101, 101) 10px 10px 25px;
                                                                           moves the box 20 pixels to
                                                                          the right and 100 pixels up
                     figure#figure3 {
                        transform: rotate(10deg) scale(0.9, 0.9) translateY(-120px);
                        box-shadow: rgb(101, 101, 101) 10px -10px 25px;
rotates the box 10°
clockwise
                                                   reduces the box size to
                                                                           moves the box 120
                                                   90% of its original size
                                                                           pixels up
```

- A 3D transformation is a change that involves three spatial axes:
 - an x-axis that runs horizontally across the page
 - a y-axis that runs vertically
 - a z-axis that comes straight out of the page toward and away from the viewer

Function	Description
translate3d(<i>offX</i> , offY, offZ)	Shifts the object $offX$ pixels horizontally, $offY$ pixels vertically, and $offZ$ pixels along the z-axis
translateX(offX) translateY(offY) translateZ(offZ)	Shifts the object $offX$, $offY$, or $offZ$ pixels along the specified axis
rotate3d(x , y , z , angle)	Rotates the object around the three-dimensional vector (x, y, z) at a direction of $angle$
rotateX(angle) rotateY(angle) rotateZ(angle)	Rotates the object around the specified axis at a direction of angle
scale3d(x, y, z)	Resizes the object by a factor of x horizontally, a factor of y vertically, and a factor of z along the z -axis
scaleX(x) $scaleY(y)$ $scaleZ(z)$	Resizes the object by a factor of x , y , or z along the specified axis
perspective(p)	Sets the size of the perspective effect to p
matrix3d(n, n,, n)	Applies a 3D transformation based on a matrix of 16 values

Perspective

- Perspective is a measure of how rapidly objects appear to recede from the viewer in a 3D space
- Perspective can be thought in terms of a pair of railroad tracks that appear to converge at a point, known as the vanishing point
- The perspective of a 3D space can be defined using

```
perspective: value;
```

- where value is a positive value that measures the strength of the perspective effect
- Lower value results in more extreme distortion 51

Perspective (con't)

```
/* Transformation Styles */
sets the perspective
                      article {
of the article space
                       perspective: 600px;
                                                               adds a box shadow
to 600 pixels
                                                               on the box's bottom
                                                               border
rotates the box 30°
                      figure#figure1 {
around the x-axis
and shifts it forward
                       transform: rotateX(30deg) translateZ(50px);
50 pixels along the
                         box-shadow: rgb(51, 51, 51) 0px 10px 25px;
z-axis
                      figure#figure2 {
                         transform: rotate(-40deg) scale(0.8, 0.8)
                                      translate(20px, -100px)
rotates the box 30°
                                    rotateZ(30deg) rotateY(60deg);
around the z-axis and
60° around the y-axis
                         box-shadow: rgb(101, 101, 101) 10px 10px 25px;
                      figure#figure3 {
rotates the box 70°
                         transform: rotate(10deg) scale(0.9, 0.9)
counter-clockwise
                                      translateY(-120px)
around the y-axis and
                                    ➤ rotateY(-70deg) translateZ(-20px);
shifts it backward
                         box-shadow: rgb(101, 101, 101) 10px -10px 25px;
20 pixels along the
z-axis
```

Filters

- Filters adjust how a browser renders an image, a background, or a border
- Filters modify an object's color, brightness, contrast, or general appearance
- Filters can be applied using the following property:

```
filter: effect(params);
```

where effect is a filter function and params specify the parameters of filter function

Filters (con't)

Function	Description
blur(length)	Applies a blur to the image where $length$ defines the size of blur in pixels
brightness(value)	Adjusts the brightness where values from 0 to 1 decrease the brightness and values greater than 1 increase the brightness
contrast(value)	Adjusts the contrast where values from 0 to 1 decrease the contrast and values greater than 1 increase the contrast
<pre>drop-shadow(offsetX offsetY blur color)</pre>	Adds a drop shadow to the image where offsetX and offsetY are horizontal and vertical distances of the shadow, blur is the shadow blurring, and color is the shadow color
grayscale(value)	Displays the image in grayscale from 0, leaving the image unchanged, up to 1, displaying the image in complete grayscale
hue-rotate(angle)	Adjusts the hue by angle in the color wheel where 0deg leaves the hue unchanged, 180deg displays the complimentary colors and 360deg again leaves the hue unchanged
invert(value)	Inverts the color from 0 (leaving the image unchanged), up to 1 (completely inverting the colors)
opacity(value)	Applies transparency to the image from 0 (making the image transparent), up to 1 (leaving the image opaque)
saturate(value)	Adjusts the color saturation where values from 0 to 1 decrease the saturation and values greater than 1 increase the saturation
sepia(value)	Displays the color in a sepia tone from 0 (leaving the image unchanged), up to 1 (image completely in sepia)
url(url)	Loads an SVG filter file from url

Filters (con't)

```
/* Filter Styles */
provides more
                    figure#figure1 {
                                                                 displays the
cross-browser
                       --webkit-filter: sepia(0.8);
support by adding
                                                                figure1 figure
                        filter: sepia(0.8)
the WebKit
                                                                 box in sepia
browser extension
                    figure#figure2 {
                        -webkit-filter: grayscale(1);
                        filter: grayscale(1);
                                                              displays the
                                                              figure2 figure
                                                              box in grayscale
                    figure#figure3 {
increases the color
                        -webkit-filter: saturate(1.5) contrast(1.2);
saturation and
contrast in the
                        filter: saturate(1.5) contrast(1.2);
figure3 figure box
```

References

- Graphic Design For Everyone: Understand the Building Blocks so You can Do It Yourself by Cath Caldwell
- Web Design. The Evolution of the Digital World 1990—Today (multilingual Edition) by Rob Ford and Julius Wiedemann
- White Space Is Not Your Enemy: A Beginner's Guide to Communicating Visually Through Graphic, Web & Multimedia Design by Kim Golombisky and Rebecca Hagen

Homework

- Textbook Chapter 4
- Textbook Appendix C
- Apply some background style to you home page
 - See following slides →

Background's in John Doe's Page [htmllab13.htm]

```
<!DOCTYPE html>
<html>
            <head>
                       <meta charset="utf-8">
                       <title>John Doe's Home Page</title>
                       <style>
                                   /* structural styles */
                                   article, aside, footer, header, main, nav. section {
                                               display: block;
                                   /* layout styles */
                                   header {margin-left:auto; margin-right:auto}
                                   nay {float:left; width:15%; border:3px solid gray; background-color:tan; padding:3px; margin:3px;}
                                   aside {floatright; width:15%; border:3px solid gray; background-color:tan; padding:3px; margin:3px;}
                                   section {border:3px; padding:6px; margin:3px;}
                                   footer {clear:both;}
                                   /* grid style */
                                   div#mygrid {display:grid;}
                                   div#address-cell {background: rgb(211,211,211); outline: 3px solid gray;}
                                   div#hobby-cell {background: rgb(211,211,211); outline: 3px solid gray;}
                                   div#girl-cell {background: rgb(211,211,211); outline: 3px solid gray;}
                                   div#pet-cell {background: rgb(211,211,211); outline: 3px solid gray;}
                       </style>
            </head>
```

John Doe



సుసావగత (Hello in Japanese)

This is a picture of me.

I am so happy to be in this class.

I always do my reading and homework on time, and I never miss a class.

My address Links: My Favorite Classes 11 Peach Street MIS 470 Memphis, TN 38108 MIS 471 MIS 351 MIS231 My Hobbies Picture of Me at Gym My hobby is going to the gym. I take my text books with me to read while I use the treadmill. I tried to study while in the spa, but I dropped my homework in the water. I wish they would put internet terminals on the treadmills and stationery bikes. My Girlfriend Picture of My Girlfriend This is my girlfriend! These are the things we like to do: · Ride in my 1983 Ford Pinto · Help pick up litter on our campus · Eat in the school snack bar Sign up for 8am classes together Discuss student affairs with our school administration · Study our math class notes together « What Fun » Surf the Net! My Pets Pet Types and Names Name Туре