Dagens agenda

- Boxmodellen

- Bild

- List

Kort summering
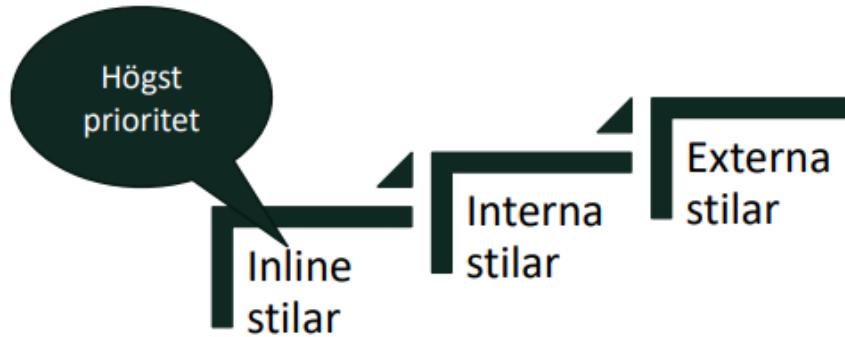
CSS – Cascading style sheets
- Extern CSS (separat CSS-fil)
- Intern CSS (i head)
- Inline CSS (inne i HTML-taggar)

Teckensnitt – font-family

Teckenstorlek – font-size
- Pt
- Px
- %
- Em
- Rem

Högst prioritet

Inline stilar

Interna stilar

Externa stilar

Färg
- Hex kod
- Hsl värde
- Rgb värde
- Namn

CSS-Regel

```
selektor {
    egenskap: värde;
    egenskap: värde;
    ...
    }
```

Boxmodellen

Boxmodellen är en av de viktigaste grundbegreppen i CSS.

Boxmodellen används för att bl.a. ange:

Width (bredd)

Height (höjd)
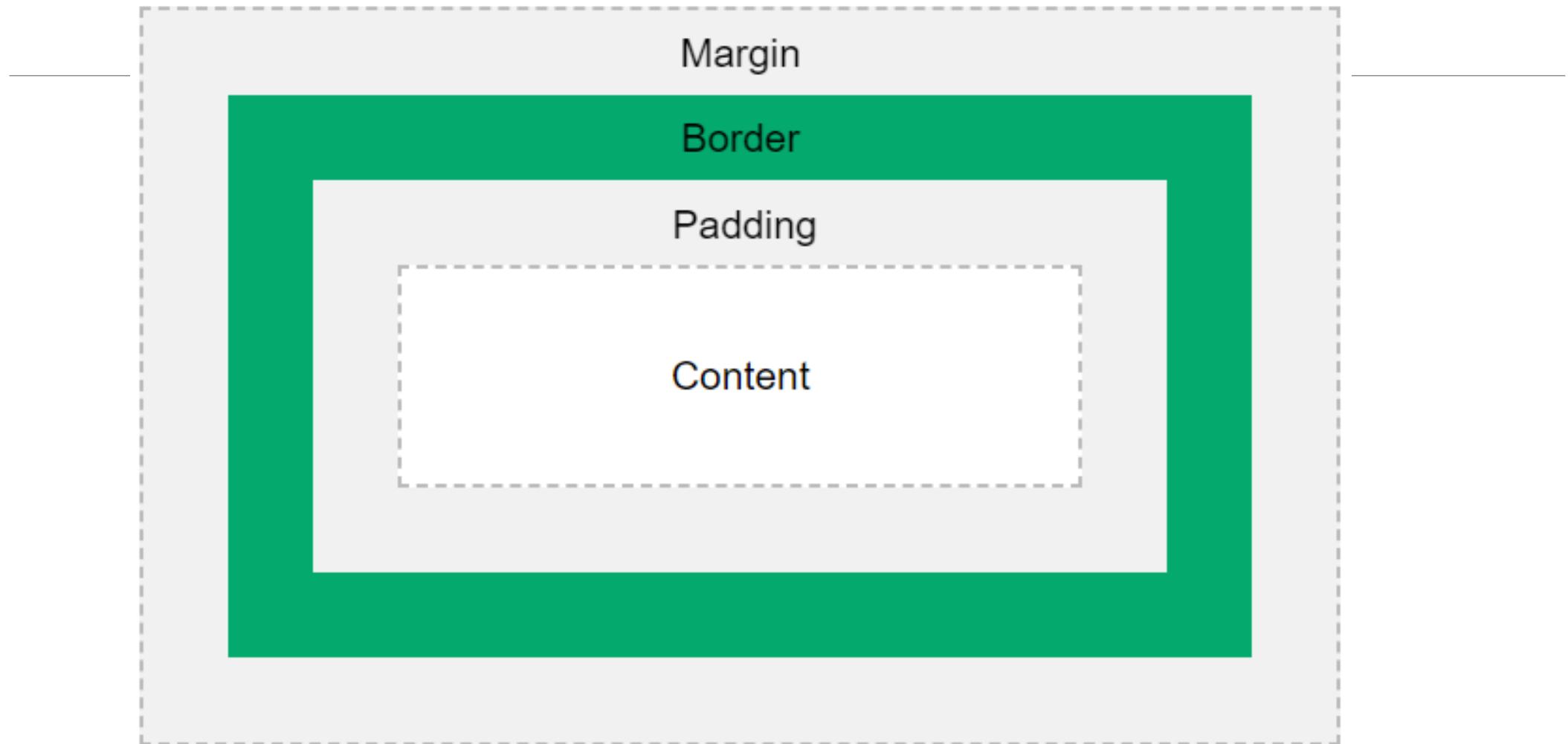
Padding (utfyllnad)

Border (kantlinjer)

Margin (marginaler)

CSS Box Model

Boxmodellen

Block och inline element

Block element

Block element ser ut som om de börjar på en ny rad. (<h1> - <h6> , <p>, <div>)

Inline element

Inline-element flyter i texten och börjar inte på en ny rad (<i>, <img>, <span>, <em>...)

CSS The display Property

Egenskapen display

Med hjälp av egenskapen display kan du t.ex. ändra inline till block.

```
a {
   width: 50px;
   height: 50px;
   background-color: black;
   color: white;
   display: block;
}
```

```
<a href="#">Länk</a>
<a href="#">Länk</a>
```

Inline-block

• Du kan visa blocken bredvid varandra med display: **inline-block**

```
a {
        width: 50px;
        height: 50px;
        background-color: black;
        color: white;
        display: inline-block;
}
```

Länk   Länk

```
<a href="#">Länk</a>
<a href="#">Länk</a>
```
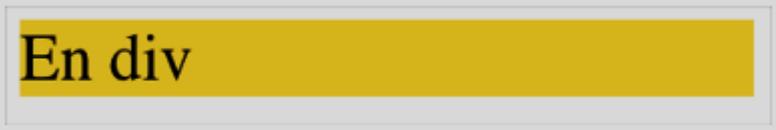
Div och span

<div> är ett blockelement
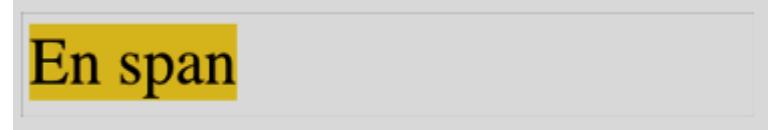
div {

background-color: gold;

}

En div

<span> är ett inline-element.

span {

background-color: gold;

}

En span

Width & Height

```
div {
    height: 300px;
    width: 400px;
    background-color: #ee3e80;
}
p{
    height: 75%;
    width: 75%;
    background-color: #e1ddda;
}
```

Lorem ipsum, dolor sit amet consectetur adipisicing elit. Dicta, sint. Quaerat incidunt, necessitatibus earum velit quidem provident natus itaque minima aliquid tempore ab unde voluptate recusandae nulla repudiandae fuga! Recusandae.

min-width & max-width

Photo	Description	Price
	The Rhodes piano is an electro-mechanical piano, invented by Harold Rhodes during the fifties and later manufactured in a number of models, first in collaboration with Fender and after 1965 by CBS. It employs a piano-like keyboard with hammers that hit small metal tines, amplified by electromagnetic pickups.	$1400
	The Wurlitzer electric piano is an electro-mechanical piano, created by the Rudolph Wurlitzer Company of Mississippi. The Wurlitzer company itself never called the instrument an "electric piano", instead inventing the phrase "Electronic Piano" and using this as a trademark throughout the production of the instrument. It employs a piano-like keyboard with hammers that hit small metal tines, amplified by electromagnetic pickups.	$1600
	A Clavinet is an electronically amplified clavichord manufactured by the Hohner company. Each key uses a rubber tip to perform a hammer on a string. Its distinctive bright staccato sound is often compared to that of an electric guitar. Various models were produced over the years, including the models I, II, L, C, D6, and E7.	$1200

```
td.description{

        min-width: 450px;

        max-width: 650px;

        text-align: left;

        padding: 5px;

        margin: 0px;

}
```

min-height & max-height

```
body {
    font-family: Arial, Verdana, sans-serif;
    color: #111111;}
h2, p{
    width: 400px;
    font-size: 90%;
    line-height: 1.2em;}
h2 {
    color: #0088dd;
    border-bottom: 1px solid #0088dd;}
p {
    min-height: 10px;
    max-height: 30px;}
```

Fender Mustang

The Fender Mustang was introduced in 1964 as the basis of a major redesign of Fender's student models then consisting of the Musicmaster and Duo-Sonic. It was originally popular in **Fender Stratocaster** sixties surf music and attained cult status in the 1990s largely as a result of its use by a number of alternative rock bands. The Fender Stratocaster or "Strat" is one of the most popular electric guitars of all time, and its design has been copied by many guitar makers. It was designed by Leo Fender, George **Gibson Les Paul** Fullerton and Fredie Tavares in 1954.

The Gibson Les Paul is a solid body electric guitar that was first sold in 1952. The Les Paul was designed by Ted McCarty in collaboration with popular guitarist Les Paul, whom Gibson enlisted to endorse the new model. It is one of the most well-known electric guitar types in the world.
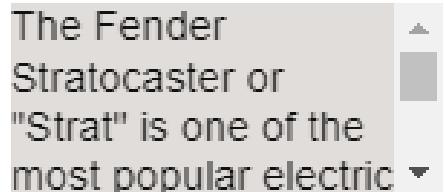
Overflow

Fender Mustang

The Fender Mustang was introduced in 1964 as the basis of a major redesign of Fender's student models then

Fender Stratocaster

The Fender Stratocaster or "Strat" is one of the most popular electric

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

CSS The overflow Property

Margin och Padding
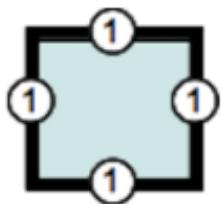
Margin anger marginaler d.v.s. avståndet mellan kanten på ett element och ett annat element.
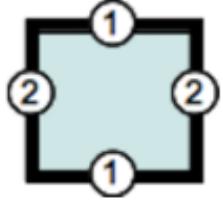
Padding anger utfyllnaden d.v.s. avståndet mellan innehållet i ett element och elementets kant.

CSS Margin
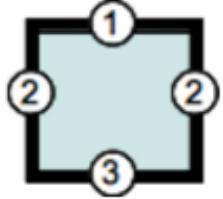
CSS Padding
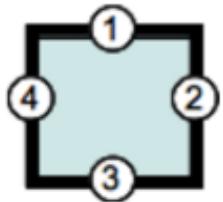
The 1-value syntax: `border-width: 1em` — The unique value represents all edges

The 2-value syntax: `border-width: 1em 2em` — The first value represents the vertical, that is top and bottom, edges, the second the horizontal ones, that is the left and right ones.

The 3-value syntax: `border-width: 1em 2em 3em` — The first value represents the top edge, the second, the horizontal, that is left and right, ones, and the third value the bottom edge
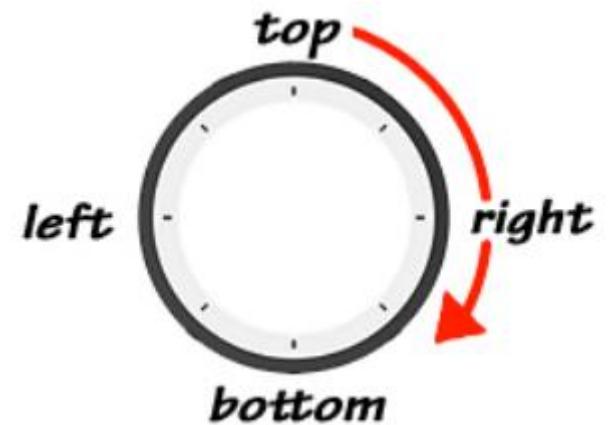
The 4-value syntax: `border-width: 1em 2em 3em 4em` — The four values represent the top, right, bottom and left edges respectively, always in that order, that is clock-wise starting at the top (The initial letter of Top-Right-Bottom-Left matches the order of the consonant of the word *trouble*: TRBL)

Kortformer för margin och padding

padding: 10px 20px 30px 40px;

margin: 10px 20px 30px 40px;

top

left   *right*

bottom
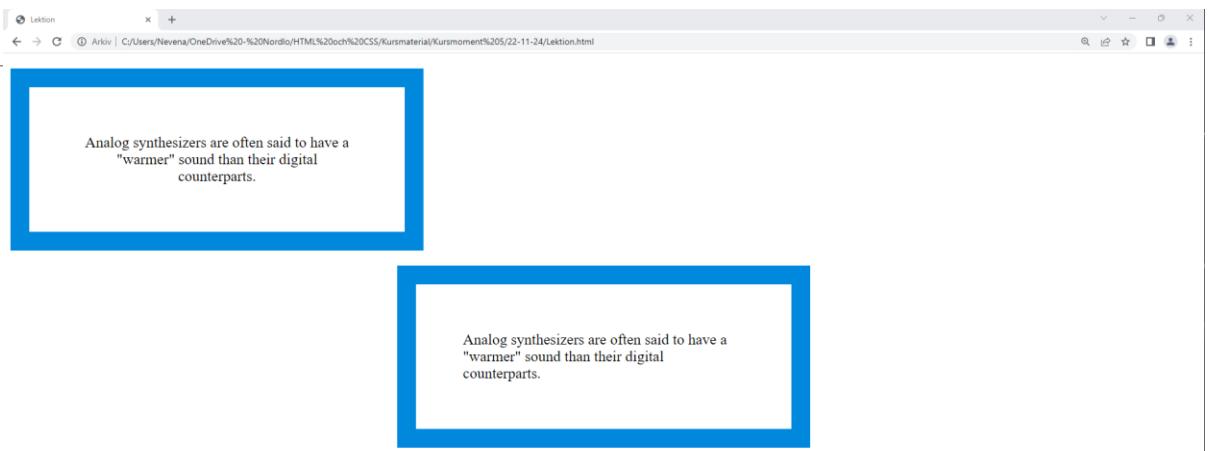
Automatiska marginaler

Automatiska marginaler tillsammans med bredd centrerar ett block.

```
.container {
          background-color: gold;
          width: 300px;
          margin: auto;
     }
```

Centering content

```
body {

    text-align: center;}

p {

    width: 300px;

    padding: 50px;

    border: 20px solid #0088dd;}

p.example {

    margin: 10px auto 10px auto;

    text-align: left;}
```



```
<p>Analog synthesizers are often
said to have a "warmer" sound than
their digital counterparts.</p>

<p class="example">Analog
synthesizers are often said to have
a "warmer" sound than their digital
counterparts.</p>
```

Border (kantlinjer)

Border-width (thin, medium, thick, px)

- ◦ Border-top-width
- ◦ Border-right-width
- ◦ Border-bottom-width
- ◦ Border-left-width

```
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 (kantlinjer)

border-width

border-style

border-color

border: 1px solid #000;

Border – Olika stilar

border-style: solid;

Border (kantlinjer)

Border-color
- Border-top-color
- Border-right-color
- Border-bottom-color
- Border-left-color

The ARP Odyssey was introduced in 1972.

The ARP Odyssey was introduced in 1972.

```
p.one {

    border-color: #0088dd;}

p.two {

    border-color: #bbbbaa #111111 #ee3e80 #0088dd;}
```

Runda hörn

```
.rounded {

    border: 5px solid #ee3e80;

    padding: 20px;

    width: 275px;

    border-radius: 10px;

}
```

Lorem ipsum dolor sit amet consectetur adipisicing elit. Expedita placeat eos animi magnam quos beatae, quas quaerat labore culpa debitis distinctio deleniti voluptatem voluptatum odio. Ex culpa sint possimus libero!

Ytligare egenskaper

visibility: hidden;

visibility: visible;
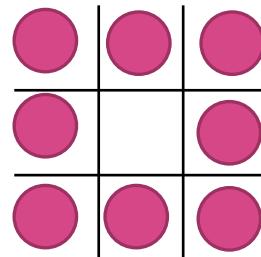
Border images
1. URL
2. Var du ska skära bilden
3. Vad man ska göra med de raka kanterna (stretch, repeat, round)

box-shadow
◦ horizontal offset
◦ vertical offset
◦ blur distance
◦ spread of shadow

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Exempel

Uppgift 2

- Skapa ett HTML-dokument.

- Skriv några rubriker och lägg till lite Lorem Ipsum.

- Formatera rubrikerna (valfri formatering).

- Skapa en CSS-klass som visar en textruta som en post-it lapp (gul bakgrund med kantlinjer).

- Koppla klassen till ett valfritt stycke.

- Flytta alla CSS-regler till en extern CSS-fil.

- Skapa 3 nya HTML-sidor.

- Koppla samma stilmall till alla sidor.

- Länka alla sidor till varandra

Uppgift 3

Skapa din bloggsida – använda margin och padding

Inspiration [Padding Versus Margin in the Real World (codepen.io)](codepen.io)
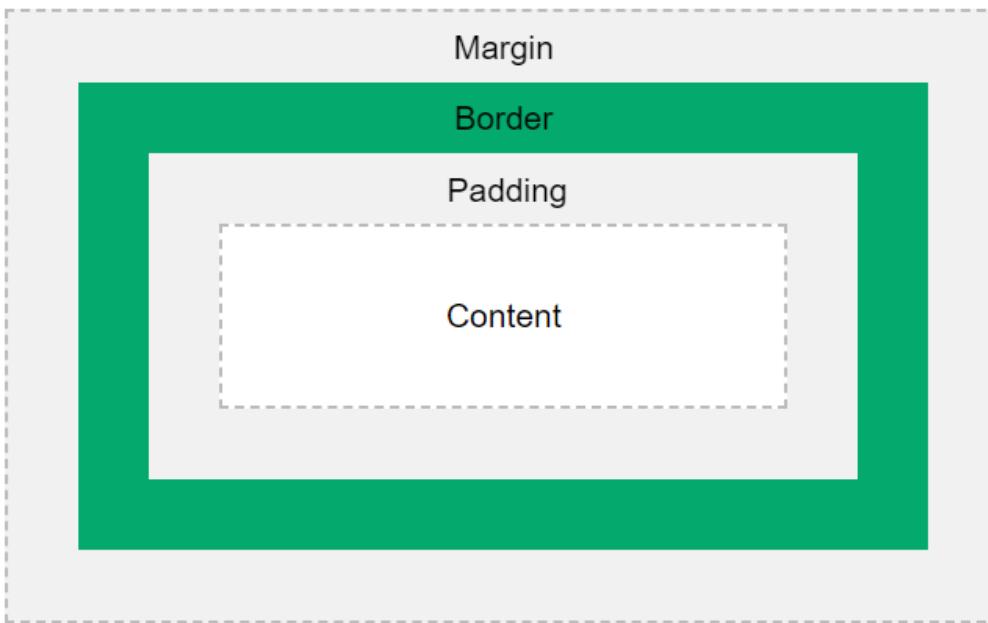
Summering

Boxmodellen

Instuderingsfrågor

- Vad innebär Boxmodellen i CSS?

- Vad är skillnaden mellan margin och padding?

- Vad är skillnaden mellan inline, block och inline-block?

- Vad är span och div? Hur fungerar dessa element med CSS?

- Varför ska vi använda automatiska marginaler i CSS?

Kort summering

Bildstorlek i CSS


```
img.large {
    width: 500px;
    height: 500px;}

img.medium {
    width: 250px;
    height: 250px;}

img.small {
    width: 100px;
    height: 100px;}
```

Justera bild position med css

Magnolia is a large genus that contains over 200 flowering plant species. It is named after French botanist Pierre Magnol and, having evolved before bees appeared, the flowers were developed to encourage pollination by beetle.

Some magnolias, such as *Magnolia stellata* and *Magnolia soulangeana*, flower quite early in the spring before the leaves open. Others flower in late spring or early summer, such as *Magnolia grandiflora*.


```
img.align-left  {
        float: left;
        margin-right: 10px;}


img.align-right{
        float: right;
        margin-left: 10px;}
```

Centrera bild med CSS

Magnolia is a large genus that contains over 200 flowering plant species. It is named after French botanist Pierre Magnol and, having evolved before bees appeared, the flowers were developed to encourage pollination by beetle.
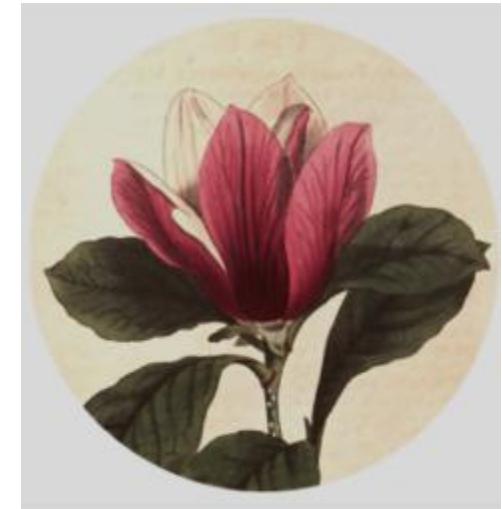
```
img.align-center {
    display: block;
    margin: 0px auto;}
```

Runda bilder
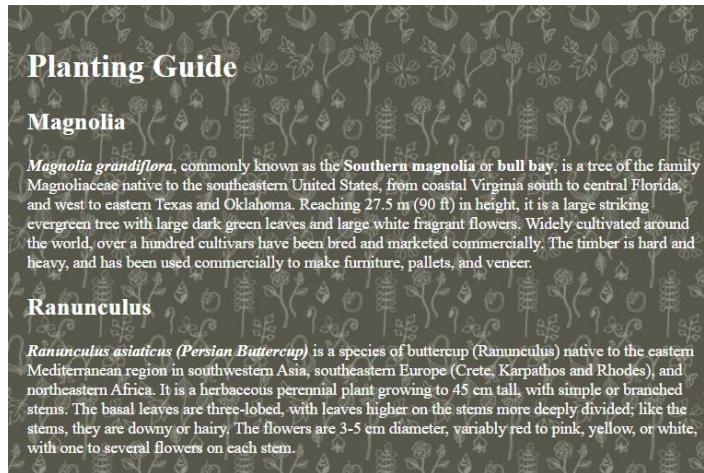
```
.image-circle {
        border-radius: 50%;
}


<img src="images/magnolia-medium.jpg"
     alt="Magnolia"
     class="image-circle">
```

Bakgrundsbilder


```
body {
        background-image:
url("images/pattern.gif");
        color: white;
        padding: 20px;}
```

```
body {
        background-image:
url("images/header.gif");
        background-repeat: repeat-x;
        color: #665544;
        padding: 20px;}
```

```
body {
        background-image:
url("images/tulip.gif");
        background-repeat: no repeat;
        background-attachment: fixed;
        color: #665544;
        padding: 20px;}
```

Bakgrundsbilder

body {
	background-image: url("images/tulip.gif");
	background-repeat: no-repeat;
	background-position: center top;
	color: #665544;
	padding: 20px;}

body {
	background-image: url("images/tulip.gif");
	background-repeat: no-repeat;
	background-position: 50% 50%;
	color: #665544;
	padding: 20px;}
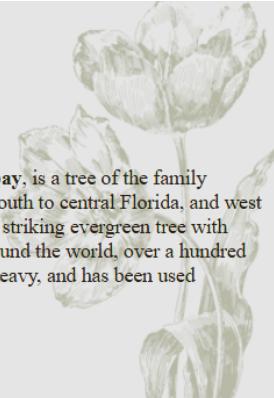
Bakgrundsbilder

body {

    background: #ffffff url("images/tulip.gif") no-repeat top right;

    color: #665544;

    padding: 20px;}

Image rollovers & sprites

```css
a.button {
	height: 36px;
	background-image: url("images/button-sprite.jpg");
	text-indent: -9999px;
	display: inline-block;}
a#add-to-basket {
	width: 174px;
	background-position: 0px 0px;}
a#framing-options {
	width: 210px;
	background-position: -175px 0px;}
a#add-to-basket:hover {
	background-position: 0px -40px;}
a#framing-options:hover {
	background-position: -175px -40px;}
a#add-to-basket:active {
	background-position: 0px -80px;}
a#framing-options:active {
	background-position: -175px -80px;}
```

Gradienter CSS3

background-image

```
#gradient {

        /* fallback color */
        background-color: #66cccc;

        /* fallback image */
        background-image: url("images/fallback-image.png");

        /* Firefox 3.6+ */
        background-image: -moz-linear-gradient(#336666, #66cccc);

        /* Safari 5.1+, Chrome 10+ */
        background-image: -webkit-linear-gradient(#336666, #66cccc);
```

Listor

Punktlistor och numrerade listor formateras med CSS.

Egenskapen list-style-type anger listelements format (punkter, siffror eller bokstäver).

```
ol {
    list-style-type: lower-roman; }
```

i. Life
ii. Nature
iii. Love
iv. Time and Eternity
v. The Single Hound

 : none, disc, circle, square

 : decimal, decimal-leading-zero, lower-alpha, upper-alpha, lower-roman, upper-roman

Listor - ta bort stiltypen

```css
ul {
    list-style-type: none;
    margin: 0;
    padding: 0;
}
```

```html
<ul>
    <li>Hem</li>
    <li>Om mig</li>
    <li>Kontakt</li>
</ul>
```

Hem
Om mig
Kontakt

Listor

list-style-image

Index of Translated Poems

Arthur Rimbaud

- ☆ Ophelia
- ☆ To Music
- ☆ A Dream for Winter
- ☆ Vowels
- ☆ The Drunken Boat

list-style-image: url ("images/star.png");

list-style-position

- That idol, black eyes and yellow mop, without parents or court ...
- Gracious son of Pan! Around your forehead crowned with flowerets ...
- When the world is reduced to a single dark wood for our four ...

list-style-position: <mark>outside</mark>;

- Once, if my memory serves me well, my life was a banquet ...
- Hadn't I once a youth that was lovely, heroic, fabulous ...
- Autumn already! - But why regret the everlasting sun if we are ...

list-style-position: <mark>inside</mark>;

Listor

Quotes from Edgar Allan Poe

○ I have great faith in fools; self-confidence my friends call it.

○ All that we see or seem is but a dream within a dream.

○ I would define, in brief, the poetry of words as the rhythmical creation of Beauty.

```
ul {
        list-style: inside circle;
        width: 300px;
}

li {
        margin: 10px 0px 0px 0px;
}
```

Skapa en vertikal navigeringsmeny

En navigeringsmeny i CSS består av två delar:

1. En punktlista med länkar till andra sidor.

2. En CSS-mall som formaterar alla element i listan.
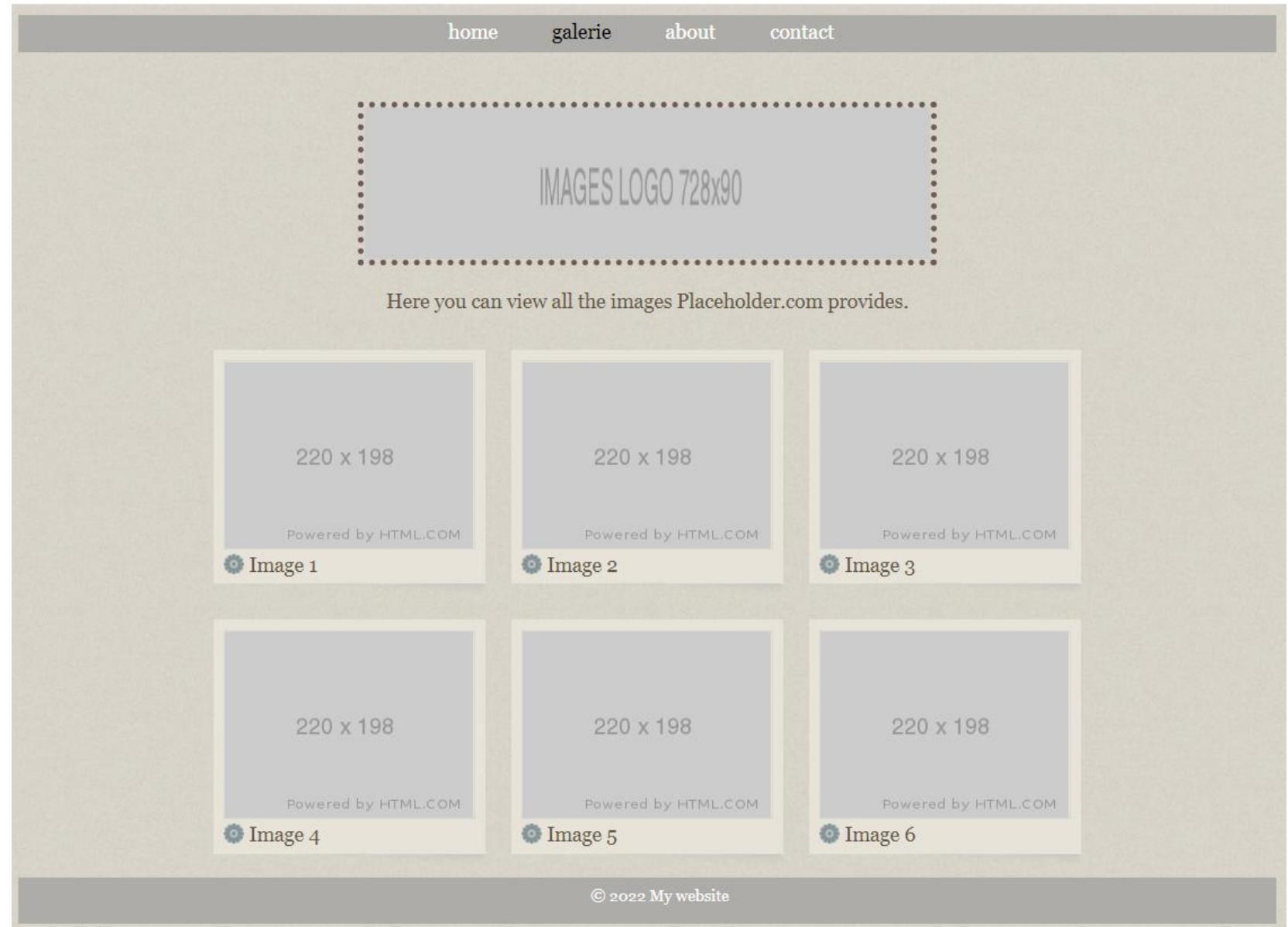
Uppgift 4

Skapa en html sida – galerie, med valfritt innehåll (text, bakgrund, bilder, färg etc.). Använda HTML och CSS.

Följa modellen till höger. Varje bild-kort har shadow bakom.

Ni får ersätta ⚙ med någon annan bild.

Summering

Bilder och listor

Instuderingsfrågor

- Hur lägger du till runda hörn på en bild i CSS?

- Hur formaterar du en enkel navigeringslista med CSS?