Arbeta med bilder på webben

Hur du inkluderar en bild på dina webbsidor med HTML?

Hur du väljer vilket bildformat som ska användas?

Hur du visar en bild i rätt storlek?

Hur du optimerar en bild för användning på webben för att få sidor att laddas snabbare?

Bilderna ska:

vara relevanta

förmedla information

förmedla rätt stämning

kunna kännas igen omedelbart

passa färgpaletten

Att välja bilder för din webbplats (tips and tricks med gallery):
Choosing Images For Your Site (htmlandcssbook.com)

Bild resurser

Bildbanksfoton, royaltyfria bilder och videoklipp - iStock (istockphoto.com)

2.7 million+ Stunning Free Images to Use Anywhere – Pixabay

Beautiful Free Images & Pictures | Unsplash

GIPHY - Be Animated

Free Stock Photos, Royalty Free Stock Images & Copyright Free Pictures · Pexels

Free Vectors, Stock Photos & PSD Downloads | Freepik

Bildformat som används på webben

JPEG/JPG (Joint Photographic Experts Group

- Används för komprimerade fotografier.

PNG (Portable Network Graphics)

- Har stöd för transparens.

GIF(Graphics Interchange Format)

- Används för animerade bilder.

SVG (Scalable Vector Graphics)

- Används för vektorgrafik.

kapitel 5, sid. 110–118 i boken HTML & CSS

Bilder <img>

Visa bilder i HTML-dokument med img-taggen

OBS! <img> har ingen sluttagg!

Några viktiga attribut:

- **src** (Source): Anger bildens sökväg och filnamn t.ex. "images/logo.png"

- **alt**: Anger alternativ text till bilden. Visas t.ex. om bilden saknas!

- **title**: Anger extra info om bilden. Visas som tooltip (vid pekning).

- **width** och **height**: Anger bredd och höjd i pixels

Var du ska placera bilder i din kod?

<img src="bird.gif" alt="Bird" width="100" height="100">

<p>There are.....</p>

<hr>

<p><img src="bird.gif" alt="Bird" width="100" height="100"> There are.....</p>

<hr>

<p>There are..... <img src="bird.gif" alt="Bird" width="100" height="100"> Many species...</p>
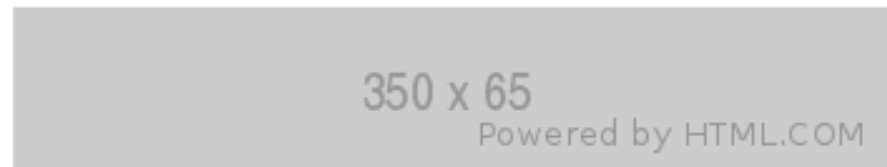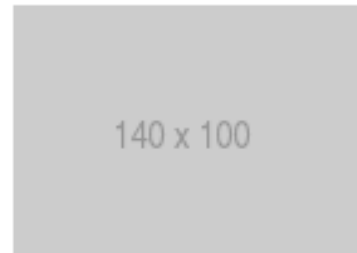

There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.
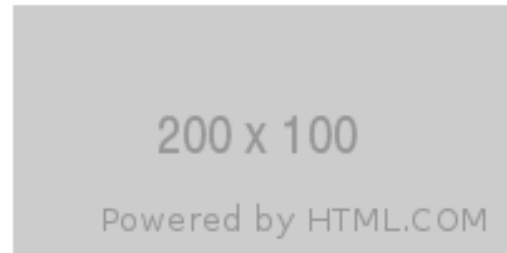
There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.
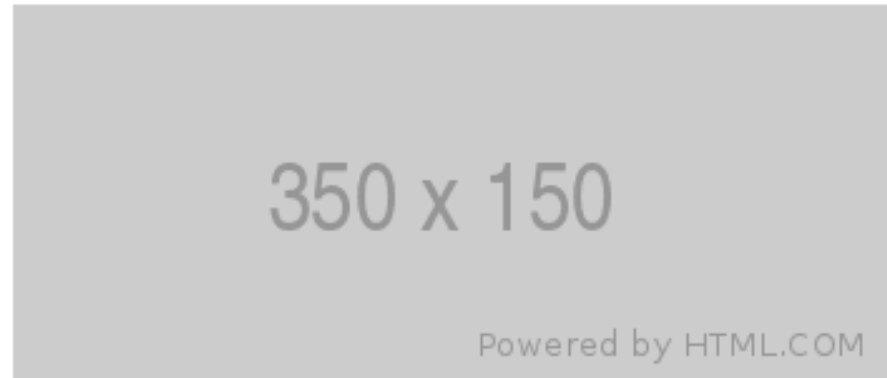
There are around 10,000 living species of birds that inhabit different ecosystems from the Arctic to the Antarctic. Many species undertake long distance annual migrations, and many more perform shorter irregular journeys.

Where to Place Images in Your Code (htmlandcssbook.com)

Placeholder bilder

[Lorem Picsum](#)

[Placeholder.com: Placeholder.com – The Free Image Placeholder Service Favoured By Designers](#)

<figure> och <figcaption>

```
<figure>

    <img src="https://picsum.photos/id/237/200/300"

    alt="Black dog">

    <br>

    <figcaption>Black Dog Syndrome: Fact or Fiction?</figcaption>

  </figure>
```

HTML Tabeller

Tabeller kan användas för att presentera tabulär data genom att ordna information i rader och kolumner.

Tabeller presenterar fakta på ett strukturerat och lättfattligt sätt.

Tabeller har tidigare använts för utformning av layout! (Används inte idag).

HTML Tabeller

- En tabell är uppbyggd av rader och celler som bildar ett rutnät.

- För att skapa en tabell skriver man först taggen **<table>**

- Rader i tabellen får man genom att skriva **<tr>**

- Rubriker skapas med hjälp av taggen **<th>**

- Taggen **<td>** skapar celler.

- Tips! Cellernas bredd anpassas efter innehållet i den bredaste cellen i samma kolumn. Detta är extra viktigt att tänka på när du visar bilder i en cell

Kantlinjer

Kantlinjer sätts med attributet border

<table border="1">

OBS! Border är föråldrad. Använd CSS istället! Mer om detta senare i kursen.

Läs mer

http://www.w3schools.com/tags/att_table_border.asp

Attributet scope

```
<table>
    <tr>
        <th></th>
        <th scope="col">Saturday</th>
        <th scope="col">Sunday</th>
    </tr>
    <tr>
        <th scope="row">Tickets sold:</th>
        <td>120</td>
        <td>135</td>
    </tr>
    <tr>
        <th scope="row">Total sales:</th>
        <td>$600</td>
        <td>$675</td>
    </tr>
</table>
```

	Saturday	Sunday
Tickets sold:	120	135
Total sales:	$600	$675

Sammanfoga celler

colspan sammanfogar två kolumner

Exempel:

<tr><th colspan="2"> Slår ihop två kolumner </th></tr>

rowspan sammanfogar två rader

Exempel:

<td rowspan="2">Slår ihop två rader</td>

OBS! Glöm inte att ta bort ev. extra rader eller celler!

Långa tabell -

```
<table>
    <thead>
        <tr> ...</tr>
    </thead>

    <tbody>
        <tr> ...</tr>
    </tbody>

    <tfoot>
        <tr> ...</tr>
    </tfoot>
</table>
```

Date	Income	Expenditure
1st January	250	36
2nd January	285	48
3rd January	260	42
4th January	290	38
5th January	310	115
6th January	168	14
7th January	226	20
8th January	253	37
9th January	294	33
10th January	216	46
11th January	244	29
12th January	297	32
13th January	328	86
14th January	215	38
15th January	254	30
16th January	256	27
17th January	311	68
18th January	212	39
19th January	234	36
20th January	221	43
21st January	259	38
22nd January	246	31
23rd January	248	17
24th January	229	45
25th January	263	34
26th January	258	41
27th January	283	22
28th January	256	30
29th January	278	47
30th January	251	15
31st January	129	64
	7824	1241

Form controls

Lägger till text:
1. Text input
2. Password input
3. Text area

Att göra val:
4. Radio buttons
5. Checkboxes
6. Drop-down boxes

Skicka in formular:
7. Submit buttons
8. Image buttons

Ladda upp filer:
9. File uppload

1 Username: [   ]

2 Password: [••   ⊚]

What did you think of this gig?

3 [   ]

4 Please select your favorite genre:
⦿ Rock ○ Pop ○ Jazz

5 Please select your favorite music service(s):
☑ iTunes ☐ Last.fm ☑ Spotify

What device do you listen to music on?

iPod ⌄
iPod
Radio
Computer

7 [Subscribe]

8 [SUBSCRIBE]

9 Upload your song in MP3 format:

[Välj fil] Ingen fil vald
[Upload]

HTML Formulär – Grunderna

```
<form action="action_page.php" method="post">

        First name: <br>

        <input type="text" name="firstname">
<br>

        Last name: <br>

        <input type="text" name="lastname"> <br>

        <input type="submit" value="Submit">
</form>
```

First name:

Last name:

Submit

Inloggningsformulär

```
<form action="action_page.php" >
    <p>Username:
    <input type="text" name="username" size="15"
    maxlength="10">
    </p>
    <p>Password:
    <input type="password" name="password" size="15"
    maxlength="20">
    </p>
    <p>
    <input type="submit" value="Submit">
    </p>
</form>
```

Username: _____

Password: _____

[Submit]

Textarea

<p>Would you like to give us a comment?</p>
  <textarea name="comments" cols="20" rows="4"></textarea>

Would you like to give us a comment?

Radioknappar

<p>Please select your favorite genre:

    <input type="radio" name="genre" value="rock" checked="checked">

    Rock

    <input type="radio" name="genre" value="pop">

    Pop

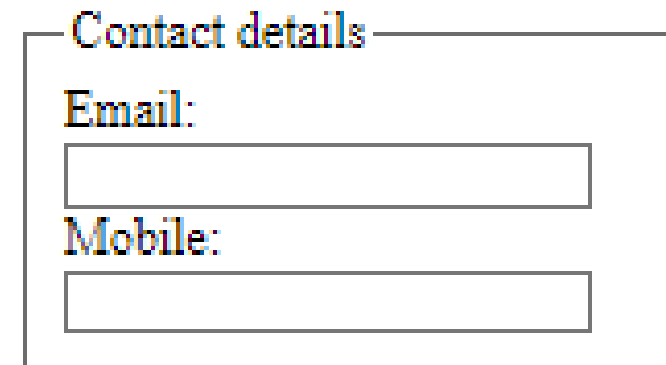   <input type="radio" name="genre" value="jazz">

    Jazz

  </p>

Please select your favorite genre:
◉ Rock ○ Pop ○ Jazz

Label

<label>Age:<input type="text" name="age"></label>

Gender:

<input id="female" type="radio" name="gender" value="f">

<label for="female">Female</label>

<input id="male" type="radio" name="gender" value="m">

<label for="male">Male</label>

Fieldset

```
<fieldset>
    <legend>Contact details</legend>
    <label>Email:<br>
    <input type="text" name="email">
    </label>
    <br>
    <label>Mobile:<br>
    <input type="text" name="mobile">
    </label>
</fieldset>
```

Kryssrutor (Checkbox)

Please select your favorite music service(s):
☑ iTunes ☐ Syntax.fm ☐ Spotify

```
<p>Please select your favorite music service(s):<br>
    <input type="checkbox" name="service" value="itunes" checked="checked">
    iTunes
    <input type="checkbox" name="service" value="syntaxfm">
    Syntax.fm
    <input type="checkbox" name="service" value="spotify">
    Spotify
</p>
```

Drop-Down-Listor

<p>What device do you listen to music on?</p>
    <select name="devices">
        <option value="ipod">iPod</option>
        <option value="radio">Radio</option>
        <option value="computer" selected >Computer</option>
    </select>

What device do you listen to music on?

Computer ▾
iPod
Radio
Computer

Datumfält

<label for="departure">Departure date:</label>
   <input id="departure" type="date" name="depart">
   <input type="submit" value="Submit">

Sökfält och placeholder

```
<input type="search" name="search" placeholder="Sök...">
   <input type="submit" value="Sök">
   <input type="reset" value="Rensa">
```

Ladda upp en fil

```
<p>Upload your song in MP3 format:</p>
   <input type="file" name="user-song" /><br />
   <input type="submit" value="Upload" />
```

Upload your song in MP3 format:

[Välj fil] Ingen fil har valts

[Upload]

Attributet disabled

```
<form>
    First name: <input type="text" name="firstname">
    <input type="submit" disabled>
  </form>
```

First name: [_____] Skicka

Formulärvalidering – Attributet required

```
<form>
      Quantity (between 1 and 5):
      <input type="number" name="quantity" required>
      <input type="submit" value="Send">
   </form>
```

E-postfält

```
<form action="subscribe.php">
    <p>Subscribe to our email list:</p>
    <input type="email" name="email">
    <input type="submit" name="subscribe" value="Subscribe">
  </form>
```
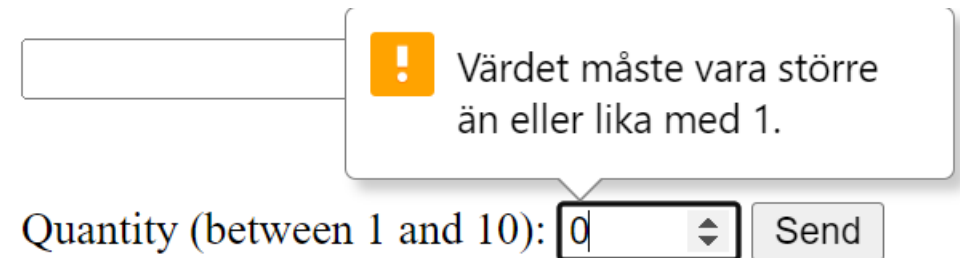
Validering – Min och Max

```
<form>
    Quantity (between 1 and 10):
    <input type="number" name="quantity"
    min="1" max="10" required>
    <input type="submit" value="Send">
</form>
```

Quantity (between 1 and 10): [0] ⬍ [Send]

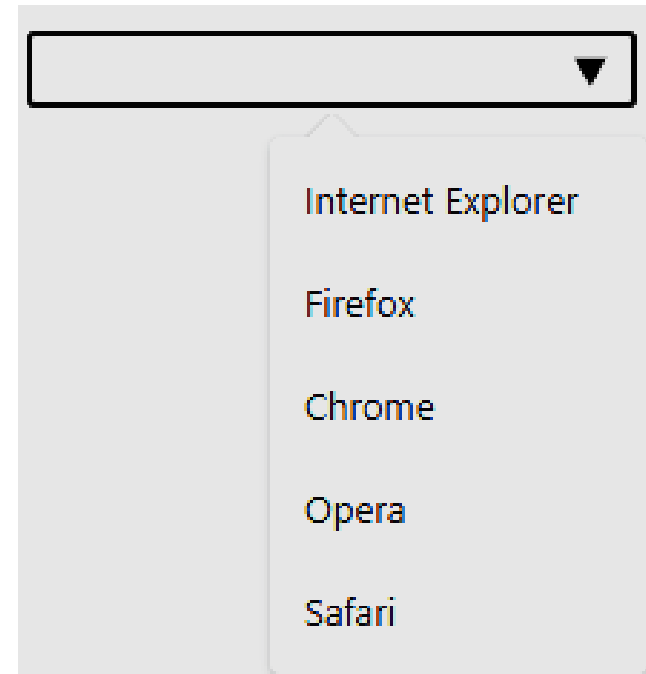⚠ Värdet måste vara större än eller lika med 1.

Datalist

```
<input list="browsers" name="browser">
  <datalist id="browsers">
    <option value="Internet Explorer">
    <option value="Firefox">
    <option value="Chrome">
    <option value="Opera">
    <option value="Safari">
  </datalist>
```

Ytterligare input-typer

Select a time:

`<input type="time" name="time"> <br>`

Select a week:

`<input type="week" name="week"> <br>`

Select your favorite color:

`<input type="color" name="favcolor" value="#8E269C"> <br>`

Your favorite website

`<input type="url" name="website">`

`<input type="hidden" name="custId" value="3487">`

Select a time: `-- : --` 🕐
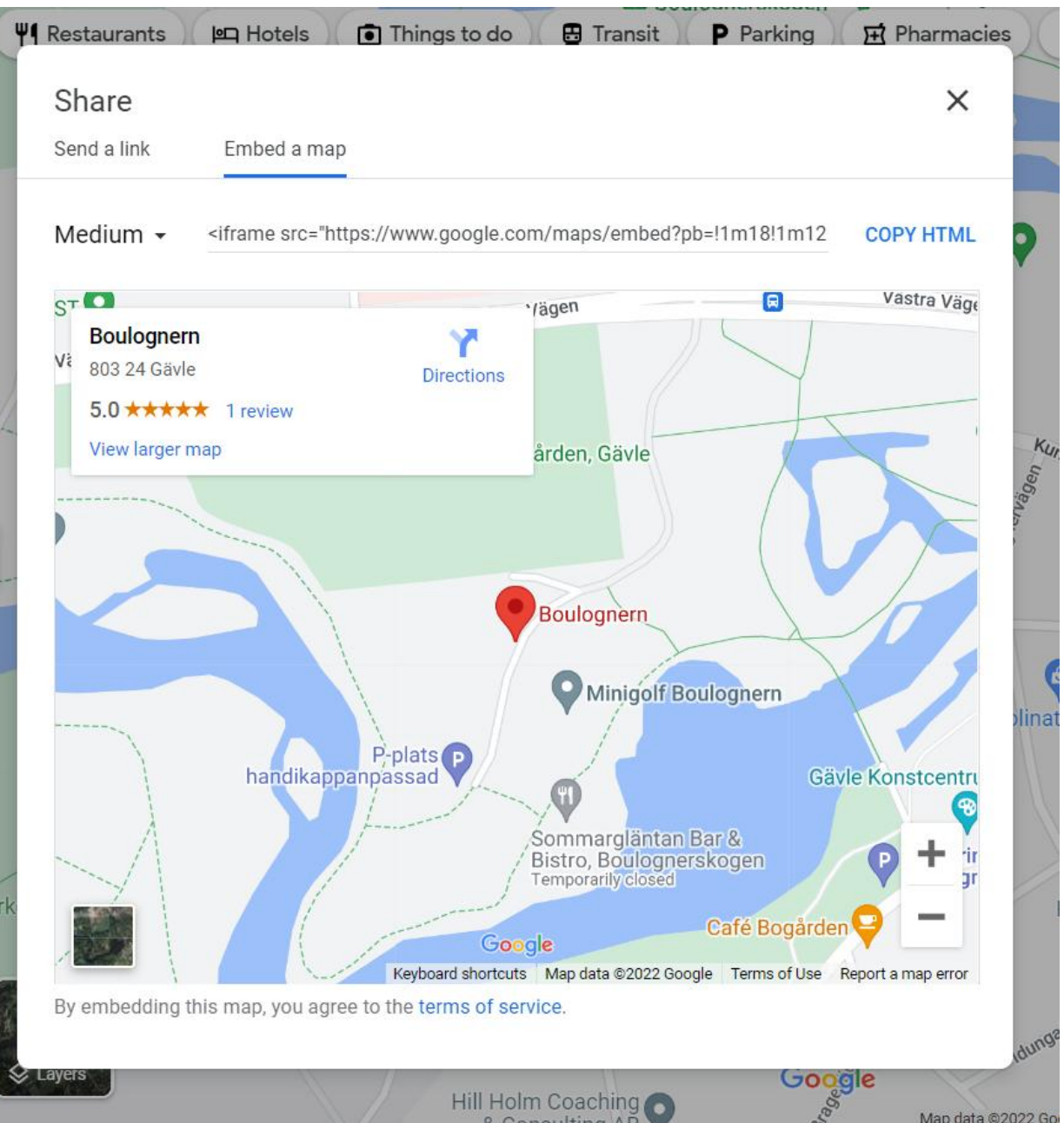Select a week: `Vecka  --  ----` 📅
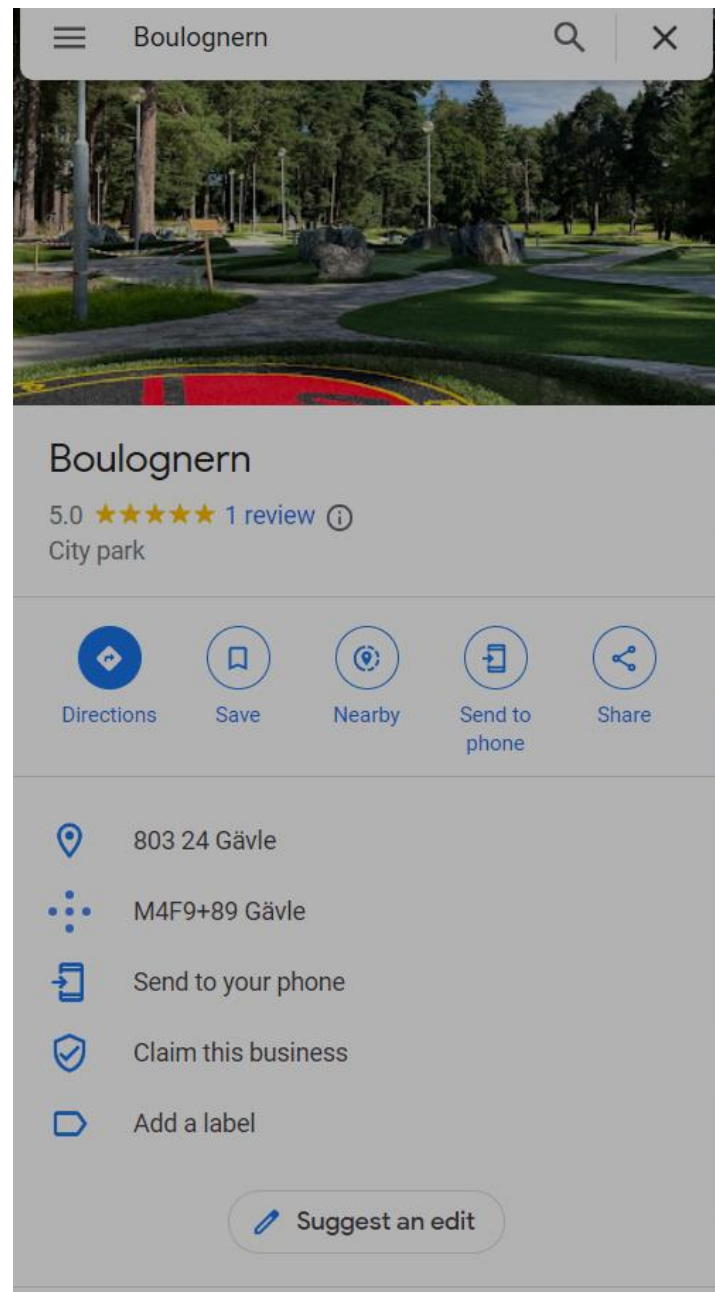Select your favorite color: 🟥
Your favorite website

<iframe> – Inline Frame

- Skapa flytande/inbäddade ramar med <iframe>.

- Iframe-taggen ger möjlighet att skapa ett fönster som visar innehåll från ett annat dokument eller URL, var som helst på en webbsida.

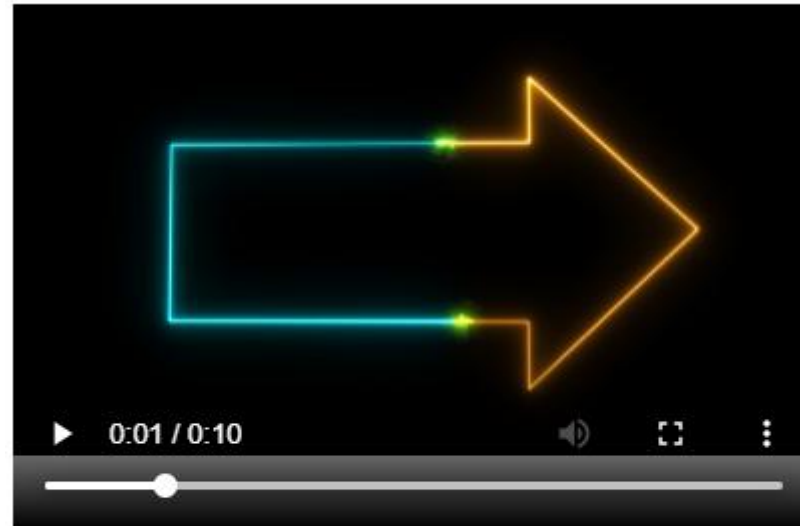- Youtube, Google Maps och många andra webbtjänster generar en iframe-kod åt dig!

Iframe exempel

Teckenkoder (entiteter)

Symbol	Name	Code 1	Code 2
<	Less-than sign	<	<
>	Greater-than sign	>	&
&	Ampersand	&	&
"	Quotation mark	"	"
¢	Cent sign	¢	¢
£	Pound sign	£	£
¥	Yen sign	¥	¥
€	Euro sign	€	€
©	Copyright symbol	©	©
®	Registered trademark	®	®
'	Left single quote	‘	‘
'	Right single quote	’	’
"	Left double quotes	“	“
"	Right double quotes	”	”
×	Multiplication sign	×	×
÷	Division sign	÷	÷

Video på webben

```
<video src="video/puppy.mp4"poster="images/puppy.jpg"

    width="400" height="300"

    preload

    controls

    loop>
</video>
```

Multiple video sources

<video poster="images/puppy.jpg" width="400" height="320"

preload="" controls="" loop="">

==<source== src="video/puppy.mp4" type="video/mp4;codecs="avc1.42E01E, mp4a.40.2"">

==<source== src="video/puppy.webm" type="video/webm;codecs="vp8, vorbis"">

<p>A video of a puppy playing in the snow</p>

</video>

Ljud på webben


```
<audio src="audio/test-audio.ogg" controls autoplay>
    <p>This browser does not support our audio format.</p>
    </audio>
```

Multiple audio sources

```html
<audio controls="" autoplay="">

    <source src="audio/test-audio.ogg">

    <source src="audio/test-audio.mp3">

    <p>This browser does not support our audio format.</p>

</audio>
```

Bra övningar från w3schools

https://www.w3schools.com/html/html_examples.asp

- HTML Froms
- HTML Form Elements
- HTML Input Types