Lesson 10

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What we learnt last time?

- 3 different ways of including fonts into your project
- Font families: serif, sans-serif, monospace, proportional, script, fantasy
- Web safe fonts what does it mean
- HTML-forms: types of inputs, required attributes
- How to combine all icons from page into one big picture and how to use it



Our targets for today

- How to create a table with header, footer and content
- How to combine table cells horizontally and vertically
- Background color with gradient
- Difference between radial and linear gradient;
- How to add shadow for a text
- How to add colorful shadow for block elements



Tables

- → An HTML table is defined with the tag
- → Each table row is defined with the
 tag
- → A table header is defined with the tag
 - → By default, table headings are bold and centered
- → A table data/cell is defined with the tag

```
Firstname
  Lastname
  Age
 Jill
  Smith
  50
 Eve
  Jackson
  94
 John
  Doe
  80
```

Firstname Lastname Age

Jill Smith 50 Eve Jackson 94 John Doe 80



Tables – Adding a Border

- → If you do not specify a border for the table, it will be displayed without borders.
- → A border is set using the CSS border property:

```
table, th, td {
    border: 1px solid black;
}
```

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

→ If you want the borders to collapse into one border, use border-collapse

property:

```
table, th, td {
     border: 1px solid black;
    border-collapse: collapse;
}
```

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80



Tables – Adding a Caption

- → To add a caption to a table, use the <caption> tag
 - → The <caption> tag must be inserted immediately after the tag

```
<caption>Monthly savings</caption>

Month
<
<th><
<tr>

January
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<td><
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```

Monthly savings

Month	Savings
January	\$100
February	\$50



Tables – Cells That Span Many Columns

→ To make a cell span more than one column, use the colspan attribute:

Name	Telephone	
Bill Gates	55577854	55577855



Tables – Cells That Span Many Rows

→ To make a cell span more than one row, use the rowspan attribute:

```
        Name:
        Image: Ith items of the image: Ith items of the items of the
```

Name:	Bill Gates
Talankana	55577854
Telephone:	55577855



[Exercise (1)]

→ Build the following table:

November						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	-				



CSS Gradients

- → CSS gradients let you display smooth transitions between two or more specified colors
- → CSS defines two types of gradients:
 - → Linear Gradients (goes down/up/left/right/diagonally)
 - → Radial Gradients (defined by their center)
- → IE9 and earlier versions do not support gradients

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recusabo nominati ius. Tollit scripserit
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consequuntur. Per et inani noluisse
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maiestatis, sea id meis aliquip impedit.



Linear Gradients

- → To create a linear gradient you must define at least two color stops
- → Color stops are the colors you want to render smooth transitions among
- → You can also set a starting point and a direction (or an angle) along with the gradient effect
- → Syntax:

background: linear-gradient(direction, color-stop1, color-stop2, ...);



Linear Gradients

→ Top to bottom (default)

```
#grad1 {
    background: linear-gradient(blue, lightblue);
}
```

→ Left to right

```
#grad2 {
    background: linear-gradient(to right, blue,
lightblue);
}
```

→ Diagonal

```
#grad3 {
     background: linear-gradient(to bottom right,
blue, lightblue);
}
```



Using Angles

- → If you want more control over the direction of the gradient, you can define an angle, instead of the predefined directions
- → Syntax:

```
background: linear-gradient(angle, color-stop1, color-stop2);
```

→ The angle is specified as an angle between a horizontal line and the gradient line

```
#grad4 {
    background: linear-gradient(30deg, yellow, red);
}
```



Using Transparency

- → CSS gradients also support transparency, which can be used to create fading effect.
- → To add transparency, we use the rgba() function to define the color stops
- → The following example shows a linear gradient that starts from the left fully transparent, transitioning to full color red:

```
#grad5 {
    background: linear-gradient(to right, rgba(255,0,0,0), rgba(255,0,0,1));
}
```



Using Multiple Color Stops

→ The following example shows how to create a linear gradient (from left to right) with the color of the rainbow and some text:

Gradient Background



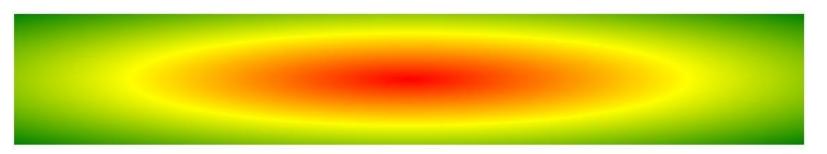
Radial Gradients

- A radial gradient is defined by its center
- → Syntax:

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

- → By default, shape is ellipse, size is farthest-corner, and position is center
- → The following example shows a radial gradient with evenly spaced color stops:

```
#grad1 {
    background: radial-gradient(red, yellow, green);
}
```

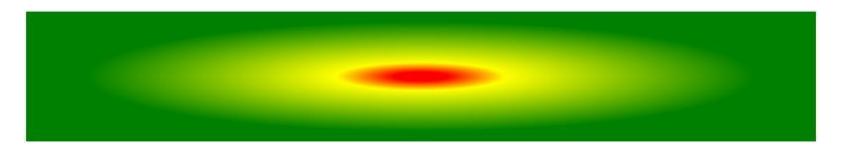




Radial Gradients - Differently Spaced Color Stops

→ The following example shows a radial gradient with differently spaced color stops:

```
#grad2 {
    background: radial-gradient(red 5%, yellow 15%, green 60%);
}
```

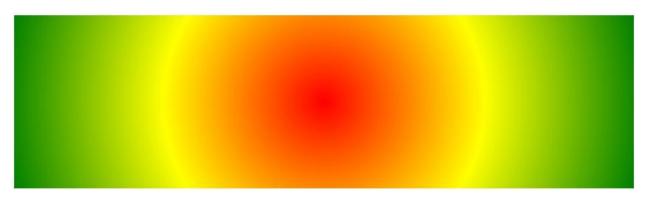




Set Shape

- → The shape parameter defines the shape. It can take the value circle or ellipse.
 - → The default value is ellipse
- → The following example shows a radial gradient with the shape of a circle:

```
#grad3 {
    background: radial-gradient(circle, red, yellow, green);
}
```





CSS Shadows

- → With CSS you can add shadow to text and to elements
- → The text-shadow property applies shadow to text
- In its simplest use, you only specify the horizontal shadow and the vertical shadow:

```
h1 {
    text-shadow: 2px 2px;
}
```

Text-shadow effect

→ Next, add a color to the shadow:

```
h1 {
    text-shadow: 2px 2px red;
}
```

Text-shadow effect

→ Then, add a blur effect to the shadow:

```
h1 {
    text-shadow: 2px 2px 5px red;
}
```

Text-shadow effect



Multiple Shadows

- → To add more than one shadow to the text, you can add a comma-separated list of shadows
- → The following example shows a white text with black, blue, and darkblue shadow:

```
h1.multiple-shadows { color: white; text-shadow: 1px 1px 2px black, 0 0 25px blue, 0 0 5px darkblue; }
```

Text-shadow effect



Box Shadow

→ The CSS box-shadow property applies shadow to elements

→ In its simplest use, you only specify the horizontal shadow and the vertical

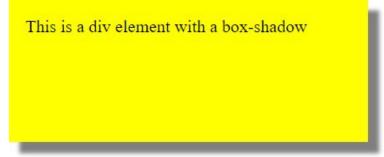
shadow:

```
div {
    width: 300px; height: 100px;
    padding: 15px;
    background-color: yellow;
    box-shadow: 10px 10px;
}
```

This is a div element with a box-shadow

→ You can also add a color and a blur effect to the shadow:

```
div {
    width: 300px; height: 100px; padding:
    15px;
    background-color: yellow;
    box-shadow: 10px 10px 5px grey;
}
```





Exercise (2)

→ Use the box-shadow property to create a paper-like card:





Control questions

- How to create table header?
- how to combine 3 elements horizontally?
- How to combine 2 elements vertically?
- How to create table footer?
- What is difference between linear and radial gradients?
- What is the syntax of text-shadow?
- How to create grey shadow for <div>?



Materials

Core materials:

https://html5book.ru/html-table/

https://puzzleweb.ru/css/9_table.php

https://html5book.ru/html5-semantic-elements/

https://html5book.ru/css3-text/

https://html5book.ru/css3-ten-teksta/

https://html5book.ru/css3-borders/

https://html5book.ru/css3-gradient/



Materials

Additional materials:

https://html5book.ru/css3-tables/

https://html5book.ru/krasivoe-oformlenie-tablic/

https://html5book.ru/oformlenie-tablicy-psevdoklassami/

http://html5doctor.com/

http://www.css3files.com/



Materials

Video materials:

https://www.youtube.com/watch?v=OicAufYXUKU

https://www.youtube.com/watch?v=oKjHixIW22I

https://www.youtube.com/watch?v=7ftsTkMg5nw

https://www.youtube.com/watch?v=vXxOcCBLX4w

https://www.youtube.com/watch?v=tf8S5EJWeVs

https://www.youtube.com/watch?v=Y_dsckWhclE&index=8&list=PLAKxGhxbBWw_jeD7pBLK8-V_ehxGgy11Z

https://www.youtube.com/watch?v=eSWK8r6Tpp4

