

# HTML and CSS

2 week

Margit Tennosaar

# Last session:

HTML basic layout // <doctype>, <html>, <head>, <body>, <title>

Including CSS // External file, internal style, inline style

HTML attributes // name=„value“

HTML comments // <!-- Write your comments here -->

HTML typography // <h1>-<h6>, <p>,<strong>, <em>

HTML breaks // <br>, <hr>

Links // <a>, external (http://...) and internal (.../about.html or #footer)

Images in HTML and CSS // external and internal. Part of content to HTML and others to CSS

# In this session:

Lists

Box model

CSS selectors, combinators

Universal reset

CSS naming

Float

CSS colors

HTML tables

CSS borders and backgrounds

# Lists

## Unordered lists

- first item
  - first item first subitem
  - first item second subitem
- second item
- third item

## Ordered lists

1. first item
  - 1.1. first item first subitem
  - 1.2. first item second subitem
2. second item
3. third item

# Lists

```
<ul>
  <li>First item
    <ul>
      <li>first item first subitem</li>
      <li>first item second subitem</li>
    </ul>
  </li>
  <li>second item</li>
  <li>third item</li>
</ul>
```

# Use of lists

An unordered list is one common method for creating a  
**navigation**

# CSS combinators

**descendant** selector (space)

`main p {background:green}`

*All paragraphs which are in main*

**child** selector (>)

`main > p {background:green}`

*All paragraphs which are in main and are direct children*

**adjacent sibling** selector (+)

`main + p {background:green}`

*Paragraph which is directly after main*

**general sibling** selector (~)

`main ~ p {background:green}`

*All paragraphs which are coming after main*

# CSS naming



Object-oriented CSS

BEM - Block Element Modifier

<https://www.webfx.com/blog/web-design/css-methodologies/>

<https://cssguidelin.es/>

# BEM

**Block:** The sole root of the component.

**Element:** A component part of the Block.

**Modifier:** A variant or extension of the Block.

```
/* Block component */  
.btn {}  
  
/* Element that depends upon the block */  
.btn__price {}  
  
/* Modifier that changes the style of the block */  
.btn--orange {}  
.btn--big {}
```

```
<div class="card">
  
  <div class="content">
    <h2>Title</h2>
    <p>Lorem ipsum dolor sit amet.</p>
    <ul>
      <li>Lorem ipsum dolor sit amet.</li>
      <li>Lorem ipsum dolor sit amet.</li>
      <li>Lorem ipsum dolor sit amet.</li>
    </ul>
  </div>
</div>
```

```
<div class="card">
  
  <div class="card__content">
    <h2 class="card__title">Title</h2>
    <p class="card__desc">Lorem ipsum dolor sit amet.</p>
    <ul class="card__list">
      <li class="card__item card__item--highlighted">
        Lorem ipsum dolor sit amet.
      </li>
      <li class="card__item">Lorem ipsum dolor sit amet.</li>
      <li class="card__item">Lorem ipsum dolor sit amet.</li>
    </ul>
  </div>
</div>
```

# CSS colors

Hexadecimal colors

`#ff0000;`

RGB colors

`rgb(255, 0, 0);`

RGBA colors

`rgba(255, 0, 0, 0.3);`

HSL colors

`hsl(120, 100%, 50%);`

HSLA colors

`hsla(120, 100%, 50%, 0.3);`

Cross-browser color names

`green`

# Task

- Make new project (second week, task 1)
- In index.html add header element and inside it nav element with unordered list.  
Make list items to be links to Home and Contacts.
- Style header (bg, inline menu)
- Add main element and inside it a container to wrap content
- Add heading, image and paragraph

# HTML tables

# HTML tables

An HTML table is defined with the `<table>` tag.

Sections for the table: `thead`, `tbody`, `tfoot`

Each table row is defined with the `<tr>` tag. A table header is defined with the `<th>` tag. A table data/cell is defined with the `<td>` tag.



# task continues

- Add links to menu (home = index.html and contacts = contacts.html)
- Make new file contact.html
- Copy index.html and replace main container content with a similar table

Name	Title	Phone	Email
Lorem ipsum	CEO	12345677	ceo@ourcompany.com
Lorem ipsum	Designer	23435563	designer@ourcompany.com
Lorem ipsum	Developer	66453223	developer@ourcompany.com

# CSS borders and backgrounds

# CSS borders

CSS border always needs at least three properties:

**border-style:** dotted, dashed, solid, double, groove, ridge, inset, outset, none, hidden

**border-width**

**border-color**

**border-radius**

**border:** width style color

# CSS backgrounds

background-color

background-image

background-repeat

background-attachment

background-position

background-size

**background:** background-image

background-repeat background-

attachment background-position

background-size

# Box model

# Box model

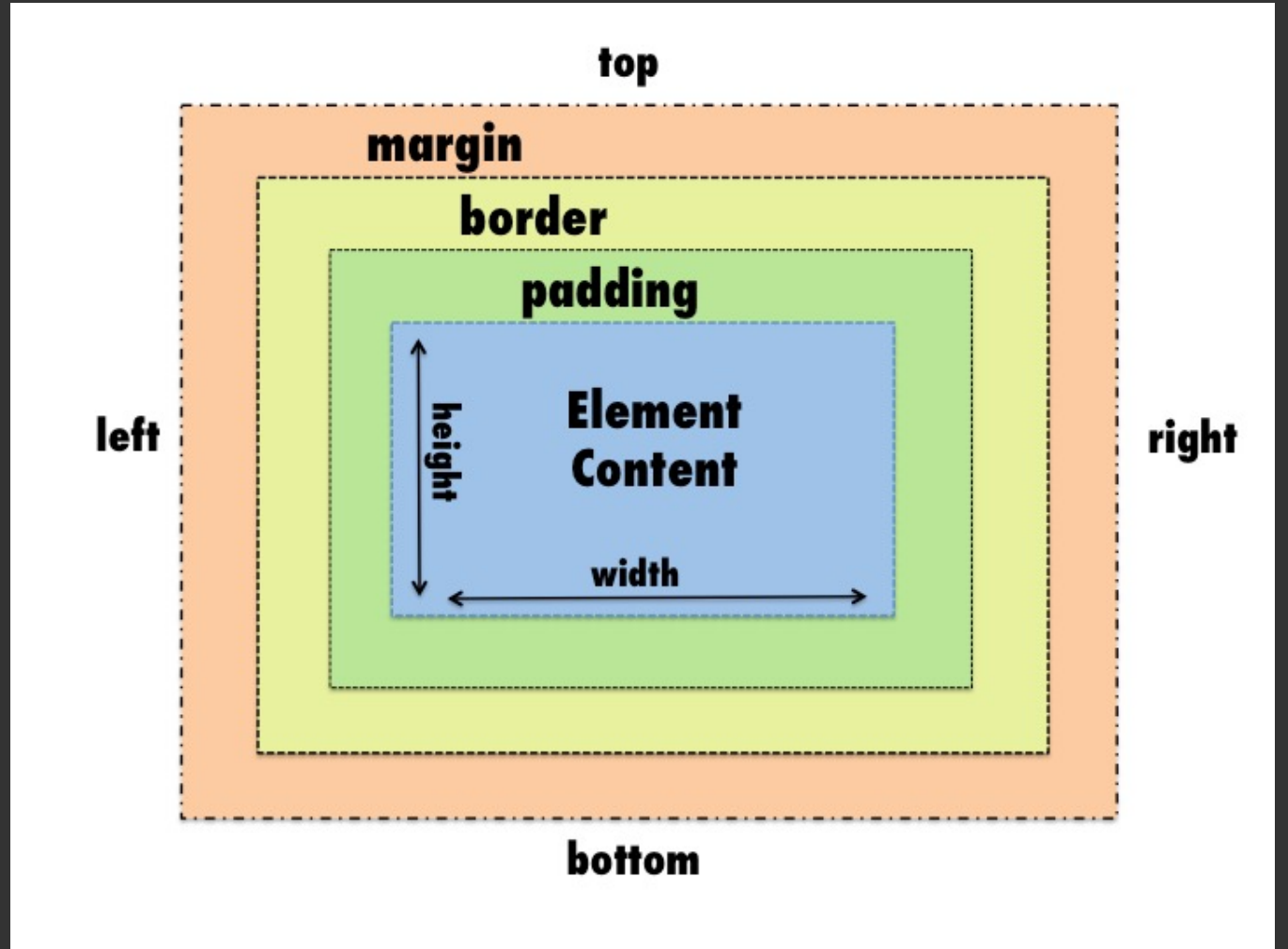


Image source: <http://espezua.github.io/blog/css-concepts.html>

# Box model recap

CSS box model is the **base of CSS layouts**

All elements have **height** and **width**

Inside space is created with **padding**

Outside space is created with **margin**

CSS "starts counting" sides from **top, right, bottom, left**

# Box model recap

`{padding: 20px;}` all four sides have same spacing

`{padding: 20px 40px;}` top-bottom have 20px space and left-right have 40px space

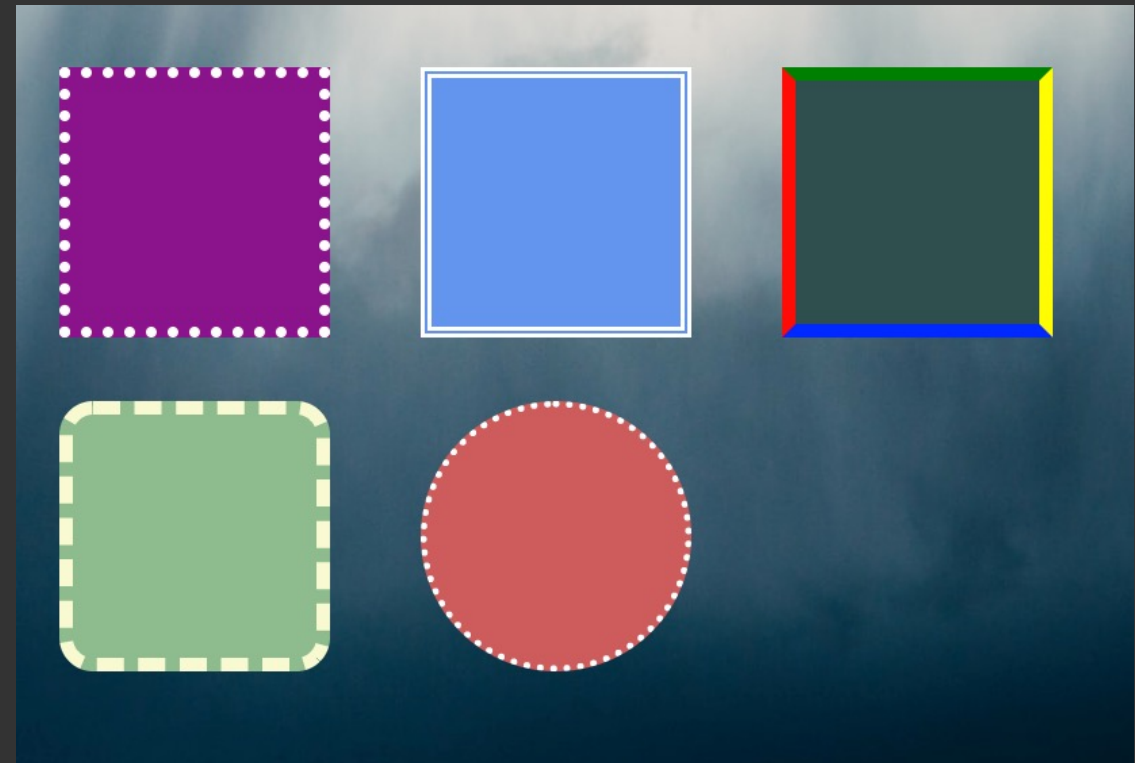
`{padding: 20px 10px 20px 30px;}` top 20px, right 10px, bottom 20px, left 30px

`{padding-top: 20px;}` top have 20px space



# Task continues

- Add fixed full cover image as a background to index.html
- Make a new section in the main container and add four different boxes and one circle.
- Add heading to boxes section and use anchor and id to make scrolling link.
- Play with box's background, borders, border-radius.



# CSS universal selector

The CSS **universal selector (\*)** matches elements of any type.

Common use is for "universal reset"

```
* {  
  margin: 0;  
  padding: 0;  
  box-sizing: border-box;  
}
```

# Float

```
Main #past img {  
  float:left;  
}
```

The **float** CSS property places an element on the left or right side of its container, allowing text and inline elements to wrap around it.

When you want to clear floating for next elements, use **clear** property

# Portfolio – step 2

## HTML

- Header with logo and nav
- Nav with unordered lists and links
- Main area with sections for hero-banner, projects, experience, skills
  - second-level heading
  - image
  - paragraph
- Footer with copyrights

## CSS

- Universal reset
- Header background image
- Floating images
- Styling sections and footer

# Welcome to my Portfolio

## Projects



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## About me

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## Skills



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