

Frontend Developer: HTML/CSS/JavaScript Web Sites Course. Module 1

Learning goal is to go from the basics of HTML and CSS to your own modern website, gaining web programming skills and colouring your vision of the web developer profession

Course Syllabus:

Day one Introduction to Webpage markup

- HTML document structure
- The first web page using HyperText markup language
- Introduction to the Sublime Text 3 Editor

Learning outcome: created the first web page, learned the basic ways to mark up text by using tags.

Practical task: create a web page using HTML.

Day two The div element and tag attributes

- Working with web inspector
- Creating a multi-page website
- Learning new tag elements and attributes

Learning outcome: learned how to add links and images to the site, added attributes to tags.

Practical task: create the first multi-page website.

Day three Cascading style sheets

- Introduction to cascading style sheets (CSS)
- Creating HTML element styles
- Using CSS selectors
- Installing and working with the Emmet plugin and adding Lorem text

Learning outcome: learned how to change the background color and text color of HTML elements, use two types of selectors, create Lorem text using Emmet plugin.

Practical task: change the page appearance using CSS properties.

Day four Creating Jaguar website

- Creating a multi-page Jaguar website
- Creating a project file structure
- Working with external and internal indents of elements

Learning outcome: learned how to work with an external CSS file, got acquainted with external and internal indents of elements.

Practical task: create a multi-page Jaguar website.

Frontend Developer: HTML/CSS/JavaScript Web Sites Course. Module 2

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Course Syllabus:

Day one

CSS Box Model

- Box model in CSS
- Creating custom-shaped blocks
- Working with the box-sizing property to change the way the width and height of an element are calculated

Learning outcome: learned how to create blocks of unusual shape, use the box-sizing property with the border-box value to calculate the width of an element, and set the dimensions of elements in different units of measurement.

Practical task: create cards with text using different values of the box-sizing property.

Day two

Advanced work with text in CSS

- Different types of fonts
- Choosing fonts for websites
- Creating new styles to customize the display of text at an advanced level

Learning outcome: created a page using different font types, improved the appearance and readability of the text using the learned properties.

Practical task: create a page using basic font types.

Day three

Positioning elements in CSS

- Working with the float property
- Types of positioning of elements on the page
- Position property

Learning outcome: learned how to work with the float and position properties, create text wrapping around images.

Practical task: create a web page and place elements on it using the float and position properties.

Day four

Creating a blog page

- Creating a blog page
- Positioning properties of elements for placing menus and posts on a page
- Semantic tags

Learning outcome: learned how to work with semantic tags using positioning properties, placed the main components of the blog on the page.

Practical task: create a blog page using semantic tags.

Frontend Developer: HTML/CSS/JavaScript Web Sites Course. Module 3

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Course Syllabus:

Day one Pseudo-classes and working with images in CSS

- Using background images on a web page
- Hover, active, and visited pseudo-classes
- Changing the style of one element when activating a pseudo-element
- Creating background patterns

Learning outcome: learned how to work with background images, learned the properties for working with images.

Practical task: add external changes to elements when the mouse cursor hovers over them.

Day two FlexBox in CSS

- Working with CSS Flexible Box Layout
- Properties for aligning elements in the Flex container
- Flexbox froggy educational game

Learning outcome: learned how to work with Flex technology to create flexible layouts, completed Flexbox froggy game to consolidate knowledge gained.

Practical task: complete Flexbox froggy game to consolidate the completed topic.

Day three Sneakers shop website development. Part 1

- Creating a site structure with models
- Connecting google font to the site
- Site header properties and its child elements
- Functions for creating a gradient page background

Learning outcome: created a site structure with sneakers models, connected the font to the site.

Practical task: select and download images with models, add a shadow to the site header.

Day four Sneakers shop website development. Part 2

- Completing work on the site
- Creating a block with cards
- Changing the behavior of elements when hovering over them
- FlexBox technology for positioning cards

Learning outcome: created a website with sneakers models cards.

Practical task: add a gallery using FlexBox technology.

Frontend Developer: HTML/CSS/JavaScript Web Sites Course. Module 4

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Course Syllabus:

Day one **Grid Layout in CSS**

- Introduction to the Grid System
- Creating a page using Grid
- Properties for advanced work with Grid cells

Learning outcome: studied the two-dimensional layout system (CSS Grid Layout), learned how to position Grid cells on the page.

Practical task: complete the Grid Garden educational game to consolidate the completed topic.

Day two **Pseudo-elements after and before**

- Pseudo-elements before and after
- Combining an image with text
- Elements with first-letter and first-line pseudo-elements

Learning outcome: learned how to work with pseudo-elements before, after, first-letter and first-line, combine pseudo-elements with different properties to create beautiful blocks.

Practical task: create an element using pseudo element before and after.

Day three **Animations and transformations in CSS**

- CSS transformations
- Applying transformations to HTML elements
- Creating animated blocks in CSS
- Applying time functions to keyframes

Learning outcome: learned how to work with transformations in CSS, create endless animations in CSS.

Practical task: create a button and add hover transformations to it.

Day four **Practice creating animations in CSS**

- Practice creating animation and transformation
- Creating an animated orbital system with our Solar system planets

Learning outcome: created a page with a demonstration of the movement of planets in the Solar System and an animated background.

Practical task: create our animated Solar System.

Frontend Developer: HTML/CSS/JavaScript Web Sites Course. Module 5

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Course Syllabus:

Day one **Creating an online store**

- What is an "online store"?
- What are "global variables" in CSS?
- Creating a project structure
- Setting up a project

Learning outcome: we started creating an online store.

Practical task: choose the icons that will be used on the site, create variables.

Day two **Creating an online store header**

- CSS variables and how to use them
- Connecting fonts to an external style sheet using the url function
- Online store header, its styling
- Adding extra menu functionality using JavaScript programming language

Learning outcome: we set up global variables in the project, created a multifunctional header with a menu, and connected a Javascript file to add extra menu functionality.

Practical task: add a change in the background of the site header when scrolling the page.

Day three **Creating the first screen with the main product**

- HTML structure of the presentation block
- Grid system for correct display of elements
- CSS property values using variables
- Stylization of elements

Learning outcome: created a presentation part of an online store.

Practical task: create a presentation part of an online store.

Day four **Creating a block with popular products**

- HTML markup for a block with products
- Styling product cards
- Using grid for positioning cards
- Styling a block with the company story

Learning outcome: created a block with popular products and the company story.

Practical task: add external and internal margins to elements in the block with the company story.

Frontend Developer: HTML/CSS/JavaScript Web Sites Course. Module 6

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Course Syllabus:

Day one **Creating a slider with customer reviews**

- Feedback block
- Ways to create scrollable containers in CSS
- Scroll-behavior and scroll-snap-type properties
- Anchor points in the slider

Learning outcome: created a slider with customer feedback using HTML and CSS.

Practical task: add anchor points to the main sections of the site and create an automatic scroll to these blocks when you click on the button.

Day two **Working with forms and video content**

- HTML5 tags for embedding video content on your site
- Styling a section with a full-screen video clip
- Input tag and its attributes
- Tag for creating HTML forms
- Text input element styling

Learning outcome: created a section with a video and a block with a feedback form.

Practical task: create a feedback form, set the styling of elements.

Day three **Creating a separate page with the gallery**

- Custom grid for gallery page
- Adding image blocks to the grid
- Pseudo elements and various block animations with images
- CSS filters to improve the visual design of the gallery

Learning outcome: created a separate page with a photo gallery.

Practical task: use different types of positioning to create a semi-transparent unusual background.

Day four **Content adaptation for all types of devices**

- Ways to adapt content to mobile devices
- Media queries for applying different properties to a single element on devices with different widths
- CSS rules for three types of devices

Learning outcome: we adapted the site for tablets and phones.

Practical task: using media queries, change the property values of HTML elements to adapt content for all types of devices.

Frontend Developer: HTML/CSS/JavaScript Web Sites Course. Module 7

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Course Syllabus:

Day one Site testing

- Testing the site for various indicators
- Using basic tools to evaluate the site's speed
- Optimize isite mages

Learning outcome: learned how to test websites for various indicators.

Practical task: make site testing using various tools.

Day two Introduction to the Tailwind CSS framework

- What are frameworks and how do they speed up the project development process
- Installing the Tailwind CSS framework and plugins
- Creating a card using Tailwind CSS

Learning outcome: created the first web page using the Tailwind CSS framework.

Practical task: conduct an experiment on creating a card using simple CSS and using Tailwind CSS.

Day three Tailwind classes for creating an adaptive website

- Working with Tailwind classes for creating an adaptive website
- Learning the concept of "site adaptability"
- Working with Flex in Tailwind
- Working with Grid in Tailwind

Learning outcome: created an adaptive page for all types of devices.

Practical task: create buttons, add their click effects using the Tailwind classes.

Day four Grid system in Tailwind CSS

- Working with the Grid system in Tailwind CSS
- Properties of adaptive site page elements in the Grid
- Page with feedback

Learning outcome: created an adaptive page with a grid of blocks using the Tailwind Grid system.

Practical task: add grid elements with feedback to adaptive page using Tailwind CSS.

Frontend Developer: HTML/CSS/JavaScript Web Sites Course. Module 8

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Course Syllabus:

Day one **Configuring the Manage project**

- Setting up the project of the Manage site app
- Creating an adaptive site header
- Creating a Hamburger menu using JavaScript
- Creating a presentation section with the product

Learning outcome: created the first screen of the Manage site app.

Practical task: add a background image to the first screen.

Day two **Create a section describing the Manage app**

- Section with app description and its benefits
- Adapt the created block to all types of devices
- Section with how the app works
- Apply Tailwind filters to the image

Learning outcome: created two sections of the Manage website.

Practical task: create an additional section with the app creation story.

Day three **Creating a FAQ section for the Manage website app**

- Working on the FAQ section
- Adding animation and collapse functionality to the FAQ section
- Adding interactive blocks

Learning outcome: created the FAQ section for the Manage website app.

Practical task: create a FAQ section and add interactive blocks.

Day four **Creating Manage website app footer**

- Creating an adaptive footer for site
- Code a block with social network icons and feedback form
- Finish working on the Manage website app project
- Publish the site to the internet

Learning outcome: created the footer of the Manage site app.

Practical task: create adaptive footer, publish the site to the internet.

Frontend Developer: HTML/CSS/JavaScript Web Sites Course. Module 9

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Course Syllabus:

Day one **Creating the first screen of your own website**

- Selecting the final project theme
- Choosing a color palette for the site
- Creating the first screen of the site

Learning outcome: we selected a color palette for the site, created the first screen of the site.

Practical task: create the first screen.

Day two **Creating a block with cards for your own project**

- Creating a Feature Section
- Creating a block with cards
- Using video content and effects for the Feature section

Learning outcome: created a Feature section.

Practical task: create a Feature section and slider.

Day three **Create a Footer and CTA for your own project**

- Creating a site footer
- Creating a block with a CTA
- Final testing and preparation for project presentation

Learning outcome: created a site footer and a CTA block, passed the final test.

Practical task: create a site footer and a CTA block, prepare a project presentation, publish the site on the Internet.

Day four **Project presentation**

- Project presentation rehearsal and presentation completion
- Project presentation in front of the audience

Learning outcome: presented final project.

Practical task: finalize the presentation, present the project.