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Digital School

Introduction to Front-End
Web Development Course
Curriculum
(FEWD Intro)

Are you ready to make the
jump to your next level of
tech expertise?

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Course Overview

This Introduction to Front-End Web Development Course (FEWD Intro), is a part-time, in-person course, designed to enable you to **create**, **develop**, and **maintain** web pages and blogs to be responsive, mobile-friendly, interactive, look great and provide a great user experience!

The course consists of **20 face-to-face training sessions** over 10 consecutive weeks at our Zone 1 learning studio:

> Unit 3.10, 3rd floor
> E1 Studios,
> 7 Whitechapel Road,
> London
> E1 1DU

Plus 30 hours of homework

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Who is this suitable for?

This course is suitable for:

- **Non-developers** in the tech industry (e.g. **UX, UI** / **Designer**, **Project Manager**, **Product Owner**, **Tester**) seeking to:

  Better understand, communicate and interact with code and coders, in order to express ideas that add more value, and work together more effectively.

- **Entrepreneurs** / **marketers** / **content managers** / **bloggers** seeking to:

  Learn how to customise web pages and blogs through your Content Management System (**WordPress**, **Drupal**, **Squarespace** etc.) for a great look and user experience that showcases your products, services & business more effectively.

  Communicate more effectively with developers.

- **Those <u>considering</u>** web development as a potential career, seeking to:

  Explore and experience some of the fundamentals of what it's like to be a web developer and establish the suitability of it as a career

- **Hobbyists** seeking to:

  Learn new skills and deliver better personal projects

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Who is this NOT suitable for?

This course is **NOT** suitable for:

- Career-change - It is NOT for those who **know** they want to enter the web development profession.

To become a professional web developer, you'll need to undertake one of our much more extensive and in-depth training bootcamps:

Pro-FED: Professional **Front-End** Web Developer

or

Pro F-Stack: Professional **Full-Stack** Web Developer

We run **London's ONLY part-time coding bootcamps**, so you don't have to quit your job, lose thousands of pounds of your income, and abandon your life, family and fun while you train!!

https://www.thejump.tech/bootcamps

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What will I come away with?

- **Insight into**:
    - The development process
    - How to work with developers more effectively
    - Whether web development is a suitable career for you.

- **Developer skills:** To create, develop and maintain web pages and blogs, for a great look and user experience

- **Hands-on experience** in applying those skills & setting up your developer environment to develop a web page from scratch to completion.

- **The confidence** to apply these skills to other projects and to communicate with coders in their language.

- **Approach** - learning to think like a programmer.

- A ready-made fun & supportive **community**.

All of which is invaluable for thriving in the digital economy.

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What specifically will I learn?

- How the internet & web pages work
- How to set-up and operate your developer environment & tools to:
  - Understand what's working & not working on your page
  - Create, edit & deploy code
- How to host a website on a server
- How to create, manage and fix web pages and blogs using the three key languages of the web: **HTML**, **CSS** and **JavaScript**
  - **HTML** (*HyperText Markup Language*) code which you write into a .html file is converted by your browser into elements which form the content of your page e.g. headings, paragraphs, links, images, buttons, etc.
  - **CSS** (*Cascading Style Sheets*) code determines the 'presentation' of those elements such as spacing, colour, size, animation, borders, text appearance & layout (**grid** & **flexbox**)
  - **JavaScript** code is a scripting language which dynamically controls the behaviour of those elements on the page, after the **HTML** & **CSS** have been loaded, so your page can change as the user interacts with it (e.g. putting items in shopping basket or showing/hiding information)

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How is the course delivered?

- **20** in-person training sessions in an enjoyable learning environment:

  Either:

  > 3 hours per session, 2 evenings per week (Mon & Wed / Tues & Thur)

  Or

  > 6 hrs on a Saturday or Sunday

  Over 10 consecutive weeks

- **30 hours (approx)** of targeted homework to:
  - Reinforce your learning
  - Challenge your understanding
  - Speed up your development

- **A responsive course leader providing online & offline support** when you can't find your own way through.

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Course lesson structure

The 20 lessons are split into 2 phases.

- **Phase 1** consists of 12 lessons focussed on **HTML** and **CSS**.
- **Phase 2** consists of 8 lessons focused on **JavaScript**

<u>**Beginning of Phase 1**</u>

<u>Lessons 1-3:</u> **Basic** & **intermediate HTML**:

You'll cover the basics of the language, including tags and their usage; attributes that you can use to control tags, and; sound construction principles to keep your page easy to maintain. You will also learn to make/understand more complex constructions, like forms, to allow users to perform more complex tasks on the site.

<u>Lessons 4-9:</u> **Basic** & **intermediate CSS** (inc. Layout):

Now you're comfortable with the elements on a page, we'll spend these 6 lessons showing you how to style those elements to become increasingly snazzy with the right spacing, colour, size, animation, borders, text appearance so that your content looks attractive. You'll learn how to use layout systems like **Flexbox** and **Grid**, to make your site mobile friendly and easy to control/maintain.

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Lesson 10: **HTML** & **CSS** test:
In this session, we'll set a task for you to produce a web page, which will test and utilise all of the skills you have learnt so far. This is not a pass or fail test, it is there to give you time to practice your new skills, whilst helping you to solidify how everything fits together. It will also help you identify where you require further clarification to strengthen your understanding.

Lessons 11: **Intro to CSS Frameworks (Twitter Bootstrap)**:
Bootstrap is a **'framework'** originally developed by Twitter. It allows you to create content rapidly with minimal effort!
It provides you with pre-written **HTML**, **CSS** & **JavaScript**, which you simply copy/paste and tweak to get a great looking content in seconds. We'll introduce you to this **framework** and work through exercises to embed your understanding of how to use it.

Lessons 12: **SCSS**:
Now that you have a solid understanding of how to style the page and the elements on it, we'll introduce you to **SCSS** - a short form language for **CSS** - It enables you to write less so saves time, and it's nicer to write in.

Phase 1 complete

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Beginning of Phase 2

Lesson 13: **Basics of Programming**:
Now that you've got a solid handle on how to structure your page and style it so it looks attractive and is responsive and suitable for mobile, the second phase of the course focuses on how to take your page from a static display to an interactive site that engages with users.
We're going to use **JavaScript** to programme the interactive behaviour of your web page, but just before we do, we'll spend this lesson using **pseudo-code** to teach you the basics of programming to get you thinking like a programmer.
Now things start to get really interesting!

Lessons 14-17: **JavaScript Basics**:
Over the next 4 lessons you'll learn the basics of **JavaScript**, including:

- data types/structures - what types of data your program can use
- variables - how we can save that data for later/repeated use
- control structures - how we can make choices on what code to execute, having analysed that data
- functions - how we create stored procedures to reuse code
- loops - how we can execute procedures a number of times

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Lesson 18: **The User Interface** & **Intro to jQuery**:
This lesson w**i**ll focus on the using the **jQuery** library to programme the '**User Interface**' (*UI*).

A UI is what changes a static display page into an interactive web page, through buttons and forms for making choices, accessing your services and sharing info.

To make learning how to programme the UI easier, we use a library of pre-written **JavaScript** code (**jQuery**) to help you practice using **JavaScript** in the browser.

You'll learn how to use **JavaScript** from the **jQuery** library to programme the UI to:
- Listen to events: e.g. clicked buttons.
- Capture data from forms: e.g. name, address, delivery time.
- Provide the data they've requested: e.g. images, text, video.
- Enhance their journey: e.g. carousels to scroll through images rapidly or lightboxes to make thumbnail images larger

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Lesson 19-20: **JavaScript DOM Basics**:
The DOM (*Document Object Model*) is a programming interface which enables **JavaScript** to interact with a web page's **HTML** and **CSS** to respond to the user's commands

To provide a safe environment in which to learn how to use **JavaScript** with the **DOM**, we previously used pre-written **JavaScript** code from the **jQuery** library. In these last 2 sessions, to create a fully formed user experience, we'll take the stabilisers off and use **JavaScript** properly to achieve things like:

- AJAX: calling servers for more information;
- Timers: running code at timed intervals;
- page manipulation: e.g. changing text, inserting new values, changing colours, animating things etc.

Course complete

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What will I have accomplished:

- Completed 60 hours of in-person FEWD training
- Completed 30 hours of homework
- Written a few 1000 lines of code
- Learnt how the internet and web pages work
- Learnt **HTML** and **CSS (and SCSS)** to an intermediate standard to deliver the snazzy style and appearance you want
- Learnt how to use **Twitter Bootstrap** to scaffold content quickly and smoothly
- Learnt how to use **JavaScript** to turn a static web page into an interactive **User Interface** that's great for users
- Learnt how to use **jQuery** for fast results
- Experienced a lot of common problems and learnt how to overcome them in future projects
- Asked countless questions to make sense of it all
- Developed a real understanding that makes talking and working with developers much easier
- Eaten some delicious pizza and met some great people
- Become an official alumni of The Jump Digital School with access to the benefits that entails

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What are the fees and fee schedule?

Course fee: £2,400.

Without 3rd party finance:

- Payable over **10 weeks** at **0%** interest
- **Fee schedule**: **1** deposit followed by **2** instalments with 5 weeks between each one:
    - **Deposit:** A **£800** payment made when confirming your place on the course.
    - **Instalments: 2** instalments of **£800**
    - The instalments are due at the beginning of the 3rd and 8th week as per the table below

Week No.	pre-start	3	8
Instalment No.	N/A	1	2
Amount	Deposit £800	£800	£800

With 3rd party financing: Payable over a number of years. Details are dependent on the financing partner and the agreement you choose. Visit our financing partners Coursebud and Lendwise for details.

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How do I proceed?

1. Each course has a dedicated page on our website with a frequently asked question section - feel free to start there, or simply reach out to us to ask us your questions:

   Email: info@thejump.tech
   Call: **+44 207 310 8642**
                Or
                +44 7786 094 990

2. Once you've had your questions answered and you're happy to proceed, let us know and we'll work with you to arrange your start date on the next available course of your choosing, that works for you

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Post-course options

- If after completing this course you decide to become a professional web developer, then we have part-time career-change bootcamps available, so you can train without having to quit your job & lose your income:

    Pro FED: Professional **Front-End** Web Developer
  or
    Pro F-Stack: Professional **Full-Stack** Web Developer
  or
    Pro JS: Professional **JavaScript** Developer

- Once you complete a course with us you become an official alumni of The Jump Digital School which entitles you to benefits such as access to our networking events and our referral programme to earn back the costs of your course and much more!

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