

# Web Design Summer Program Live Online

Get started in web design with this summer course. Students first learn to build and design webpages by coding HTML & CSS. Students will also learn to create webpage layouts in Sketch, as well as optimize web graphics for hi-res screens and fast downloads.

Group classes in Live Online and onsite training is available for this course. For more information, email [hello@nextgenbootcamp.com](mailto:hello@nextgenbootcamp.com) or visit: <https://www.nextgenbootcamp.com/classes/web-design-summer-camp-live-online>



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## Course Outline

### Section 1

#### Coding Basics: Intro to HTML Syntax

- The HTML, head, title, & body tags
- Headings, paragraphs, & lists
- The strong & em tags
- The doctype
- The lang attribute
- The meta tag & the unicode character set

#### Coding Links: Absolute & Relative URLs

- Anchor tags & hrefs
- Linking to other websites
- Linking to pages within a website
- Opening a link in a new browser window/tab

#### Adding Images

- The break tag
- The image tag & source attribute
- Using the width, height, & alt attributes
- Using horizontal rules

#### Intro to Cascading Style Sheets (CSS)

- The style tag
- Tag selectors
- The font-size, font-family, color, & line-height properties

- Hexadecimal color codes

## Section 2

### CSS Class Selectors

- The class attribute
- CSS class selectors
- The span tag
- CSS opacity

### Div Tags, ID Selectors, & Basic Page Formatting

- Dividing up content with the div tag
- Assigning IDs to divs
- Setting width & max-width
- CSS background-color
- Adding padding inside a div
- Centering content
- CSS borders
- CSS shorthand & the DRY principle

### Using Browser Developer Tools

- Opening the DevTools in Chrome
- Editing HTML in the DevTools Elements panel
- Enabling, disabling, & editing CSS in the DevTools
- Using DevTools to fine-tune your CSS
- Hexadecimal shorthand

### HTML5 Semantic Elements & Validating HTML

- The outline algorithm
- The header, nav, aside, & footer elements
- Understanding articles & sections
- The main element
- The figure & figcaption elements
- Checking for errors: validating your code

## Section 3

### Revolution Travel: Page Layout

- Organizing content into semantic sections
- Adding images
- Tagging headings

### The Box Model

- What is the box model?
- Setting div width
- Fixing a display issue with main element in Internet Explorer
- Setting a default font for the page

- Margin & padding spacing

## **Floats & Images**

- Adding a hero image
- Fluid images
- Floating images
- Class selectors
- Margins

## **Coding Links: Images & Page Jumps**

- Anchor tags & relative URLs
- Wrapping links around images
- External links (using the target attribute)
- Links within a page

# **Section 4**

## **Styling Links**

- Styling the anchor tag
- The :link, :visited, :hover, :focus, & :active pseudo-classes
- Ordering link styles

## **Styling the Navigation**

- Semantically correct navigation
- Overriding default list styles
- CSS navigation styles
- Using descendant selectors

## **Specificity, Shared CSS, & Centering Content**

- CSS specificity
- Overriding other link rules
- Moving embedded styles into an external CSS file
- Sharing styles across a site
- The text-align property
- Centering divs

## **Setting the Viewport Meta Tag**

- Disabling mobile browser text size adjustment
- The viewport meta tag
- device-width
- initial-scale
- maximum-scale

# **Section 5**

## **Starting a New Site & CSS Background Images**

- Setting a default font

- Removing default page margin
- Linking to an external style sheet
- CSS background images
- background-position
- background-repeat
- background-size

### **Fun with Fonts**

- How to use Google Fonts
- Safe fallbacks in the font stack
- Improving line-height & margin for text legibility

### **Hipstirred Layout: Fine-Tuning with the Box Model**

- Removing the extra space below an image
- Setting a max-width
- Outer & inner wrappers
- The difference between ID & class selectors

### **CSS Buttons & Floats**

- Styling semantically correct navigation
- Floats for layout
- Float insert position
- Vertical alignment & line-height
- Simple CSS buttons
- CSS border-radius
- Reusing class selectors

## **Section 6**

### **Hipstirred: Hi-Res Images**

- Retina or HiDPI graphics (@2x images)
- Setting HTML & CSS size to half the image's native size
- Code pixels vs. hardware pixels

### **Uploading to a Live Website via FTP**

- Web hosts & domain names
- Things you'll need to upload a website
- Using an FTP client & going live

### **Creating Columns (Floats & Clearing)**

- Creating a 2-column layout with floats
- Using the clear property
- Adding a border between the columns
- Setting the overflow property to hidden

### **Introduction to Media Queries**

- Finding an appropriate breakpoint
- Using a media query to change the layout at a specific screen size

- Max-width media queries
- Disabling mobile browser text size adjustment
- The viewport meta tag
- Adjusting text size across screens