

THE SKY IS THE LIMIT WHEN YOU < / > LEARN TO CODE

Programmer Journey Overview (Ages 12+)

Learning Objective:

You will learn the basics of web development by completing coding lessons and personal projects. In the process you will learn to code pages, overcome obstacles, build problem solving skills and develop self confidence as an independent developer.

Prerequisite: None

Projects & Challenges:

HTML Basics (est. 20 min)

- Learn the basic tags needed to create a valid page.
- Your Project: Create your first page and show it to the world.

CSS Basics (est. 20 min)

- Learn how to create and apply CSS styles to achieve effects.
- Your Project: Create your first CSS style and apply it.

CSS Box Model (est. 20 min)

- Learn about borders, margin & padding and how they affect the spacing of elements.
- Your Project: Use your browser's "developer tools" to manipulate margin, padding and other elements on a page.

London Bridge at Night (est. 40 min)

- Learn about graphic images, links, background colors, font colors & page centering.
- Your Project: Build your first page. You will go to Creative Commons and source free images to reference on your page.

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Working with Text & Backgrounds (est. 60 min)

- Learn various CSS properties for manipulating text on the page, creating page backgrounds and using professional icons with Font Awesome.
- Your Project: Replicate an example page but customize it to your liking by changing the Font Awesome icons, background graphic and text.

Working with Tables Lists & iFrames (est. 60 min)

- Learn how to construct various types of HTML table structures, ordered & unordered lists, and iFrames using YouTube as an example.
- Your Project: This is a MAJOR project and your opportunity to use everything you have learned so far to create your own themed page.

The Email Form Processor (est. 60 min)

- Learn about HTML Forms and the different question types available. This form will allow you to solicit feedback from users and have the information sent to your email box.
- Your Project: Add Audio or Video to a page with a feedback form. You will need to submit this challenge for a code review before moving on. Please submit a code review before moving on. (est. 30+ min)

Your Final Project: (est. up to you)

- This project is all up to you! Bring together everything you have learned and create a page according to a theme of your choosing.
- If you are using the final project for a badge, please be sure the theme is to help others in some way in order for it to be considered.

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Girl Scouts - Your Completion Certificate:

When your Final Project is accepted a Certificate of Completion will be emailed. You can use this with participating Girl Scout councils for your [Think Like A Programmer Journey Badge\(s\)](#) © Girl Scouts of the USA. Check with your Council if the badge is included.

Certificate of Completion

THIS CERTIFIES THAT

[Your Name]

HAS SUCCESSFULLY COMPLETED THE
PROGRAMMING JOURNEY

[Competition Date]

[\[Your Page Url\]](#)

