Virtual 2022

CODE fest

College Pathways to Digital Careers

Welcome to Week 3

July 25, 2022

Website Development

REMEMBER!!

Submit ALL of this week's challenges (or screen shots of them) to codefest@iechamilton.ca by Sunday, July 31 at noon for your chance to win **1 of 50 $10 Gift Cards** or the **GRAND PRIZE of up to $300 towards an online coding &/or technology related activity, camp, course or subscription** (subject to approval).

Web Developers work with programming languages to create websites and web applications. Keep in mind, a Website Developer is not the same as a Website Designer. Designers create the layout for the look and feel of a website making sure it is logical and user-friendly, while Developers take the design and create the code to produce a live, fully-functional website. Front-End Developers use languages like HTML, CSS, and JavaScript to build the visual designs. Back-End developers utilize other languages to set up email services, user authentication, databases, payments and other technical aspects of websites. Full-Stack Developers are able to perform both functions.

A Web Developer will find their career path may have jobs available in both the public and private sectors and is a great option for entrepreneurs and for those who wish to take on contract-based work. Salaries for this field can vary depending on where you choose to work, but you can expect to enter the occupation with a yearly income of $50,698. * This will only increase over time as skills develop further with experienced workers earning up to $85,932 per year. Locally, in Hamilton, Web Developers are in-demand and the prospects look good as Hamilton continues to become a very tech-intense city. COVID-19 has only intensified the need for Website Developers as many companies and organizations are looking to increase their online presence.

There are a few courses and programs at Mohawk College that can help lead you to a web development career path. Take a look at some of their offerings:

Computer Systems Technology - Software Development - 559 - 3 Year Advanced Diploma Program

Computer Systems Technician - Software Support - 548 - 558 - 2 Year Diploma Program

Mobile Application Development - Acknowledgement of Completion

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The Challenge!

This week, we're heading to CodeDragon to learn about web design using HTML including tags, headers, images, and attributes, and CSS, to add design elements to webpages.

To be entered to win one of the prizes this week, you will need to complete (and send in screenshots for):

1. HTML Tutorial
   Complete all steps & take screen shots on completion.

2. CSS Tutorial
   Complete all steps & take screen shots on completion.

Tips:

- Find our example challenges and projects on the next few pages.
- Remember to read the information provided in the tutorials, it will help your understanding for future use.
- BE CREATIVE!!
- If you are struggling, CODEfest Camp Mentors can help! Email: codefest@iechamilton.ca to register or to ask questions.

Send your completed exercises to codefest@iechamilton.ca.
Make sure you include your full name!
Prize winners will be contacted next week via information provided at registration

If you are interested in exploring HTML & CSS further, there are lots of additional resources like: Zim Skool, HTML Dog, Learn Ruby with rubymonk, CodeMaven, CodeWars, Learn the Basics with Educode, Responsive Web Design or W3 Schools.

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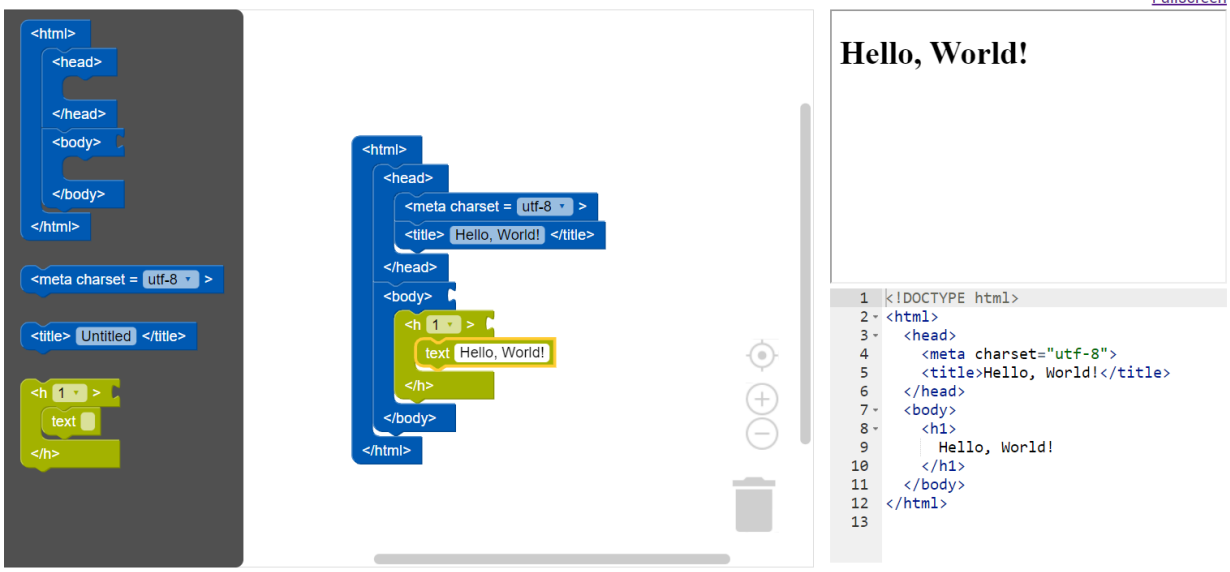
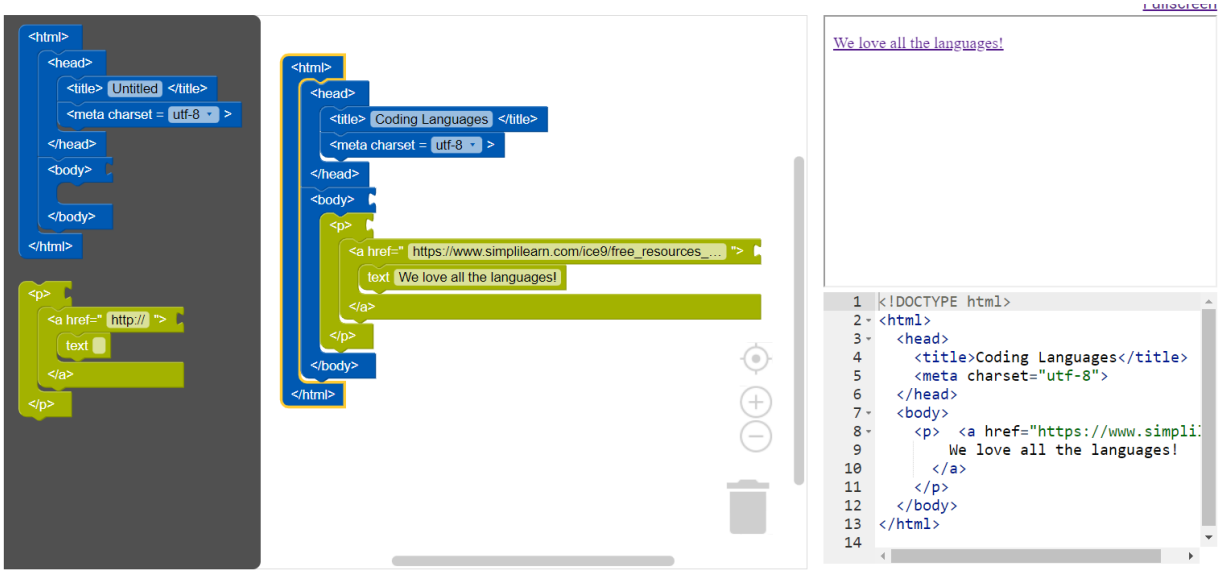
HTML Tutorial

Tags & Structure



Using Links



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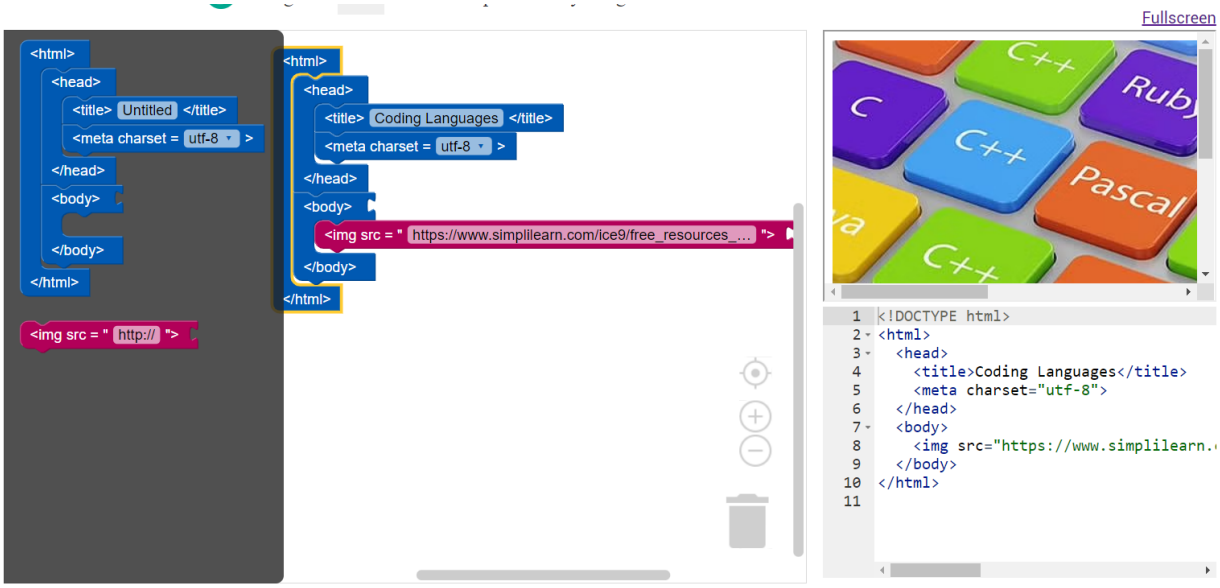
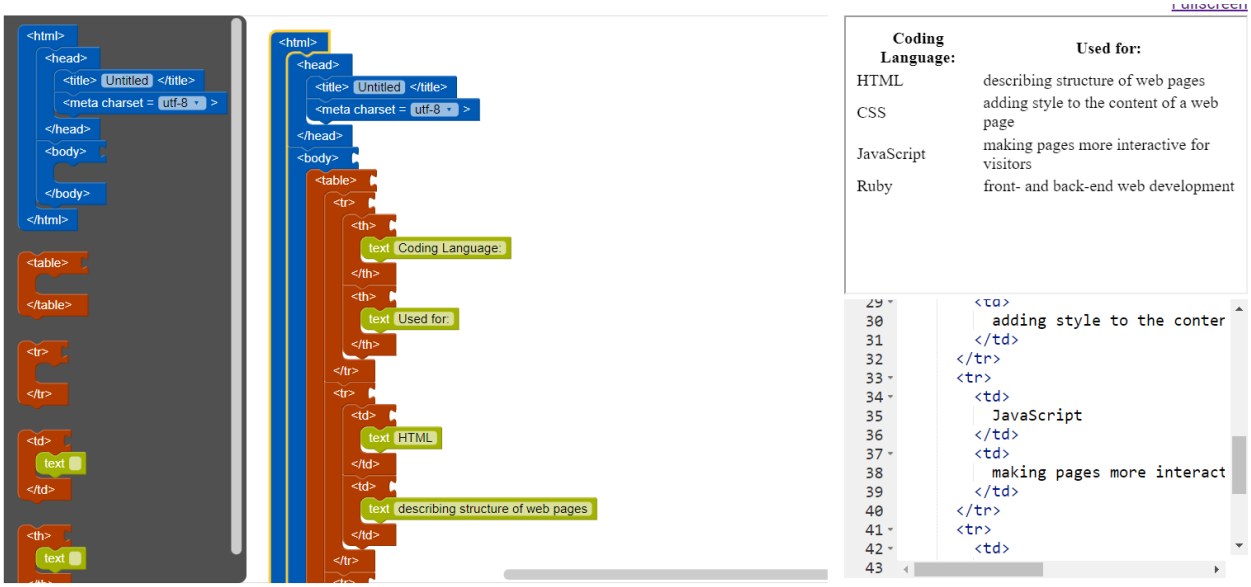
HTML Tutorial Cont'd

Adding Images



Tables



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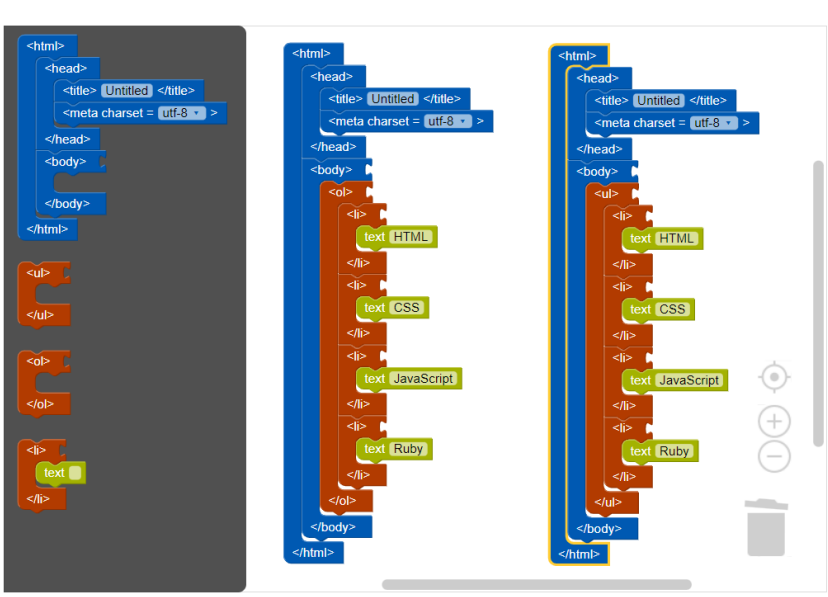
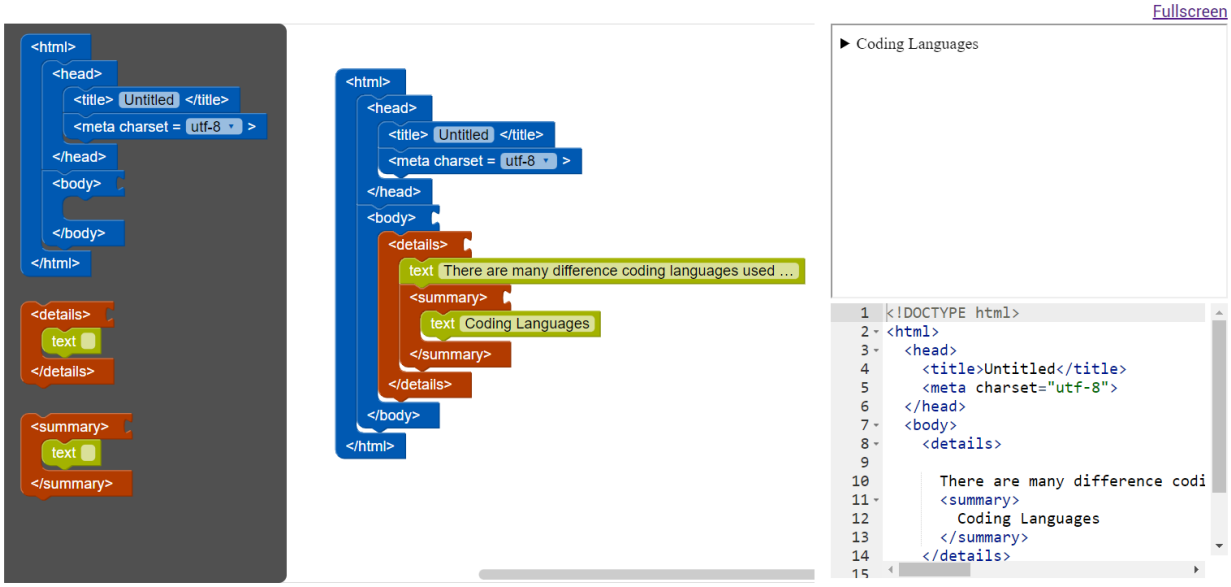
HTML Tutorial Cont'd

Ordered & Unordered Lists



Summaries



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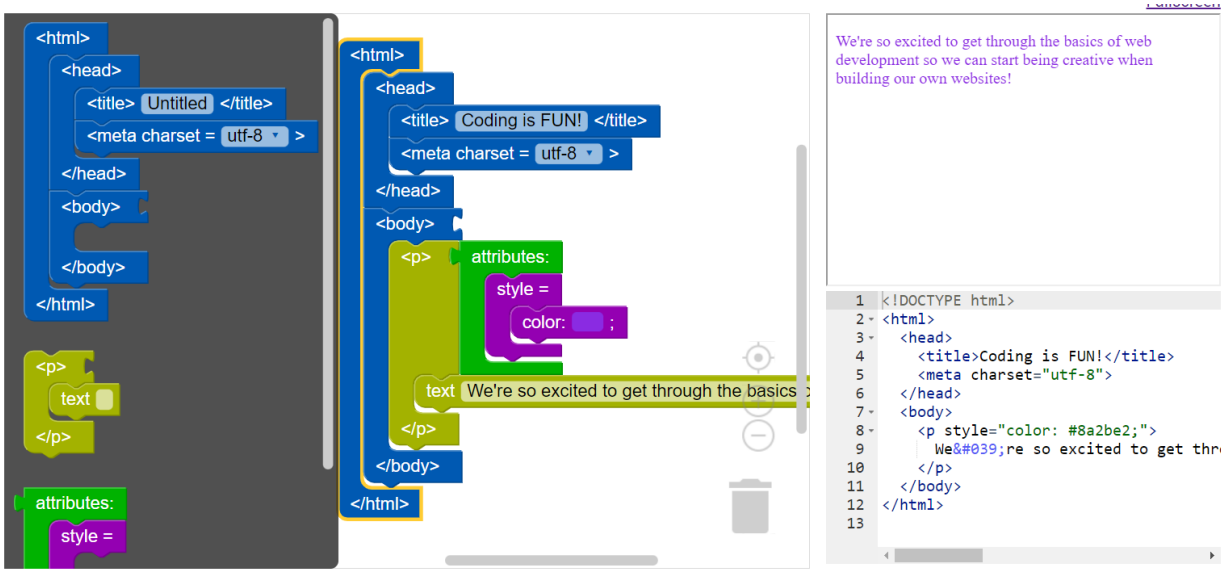
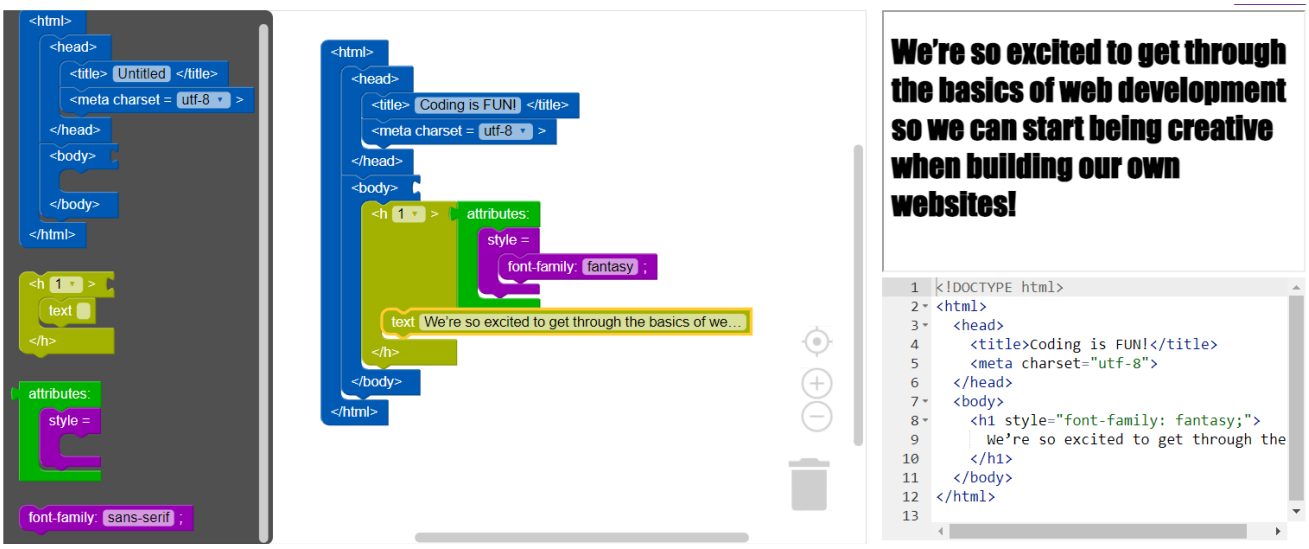
CSS Tutorial

Styling HTML with CSS



CSS Tutorial

Making Text Prettier - Using Fonts



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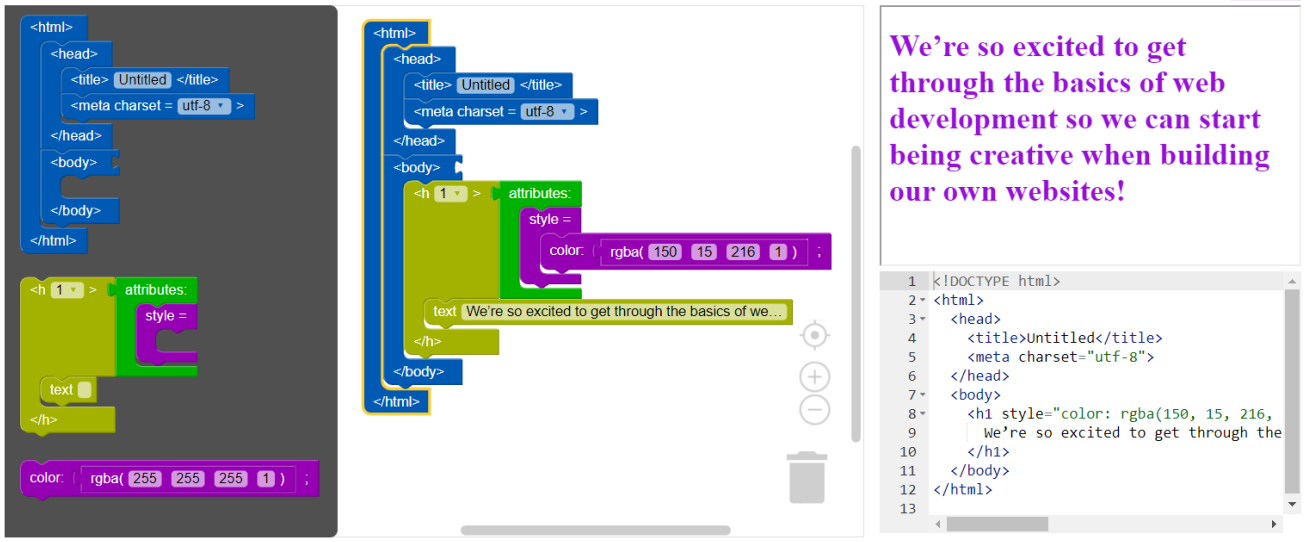
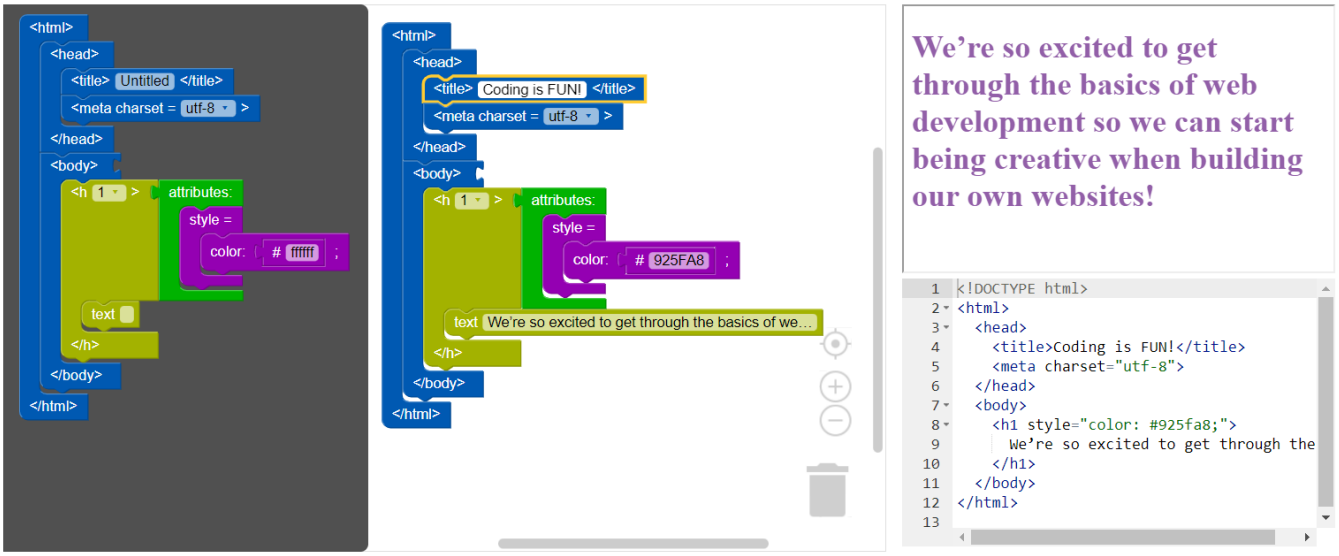
CSS Tutorial Cont'd

Making Text Prettier - Adding Colour with RGB



Making Text Prettier - Adding Colour with HEX



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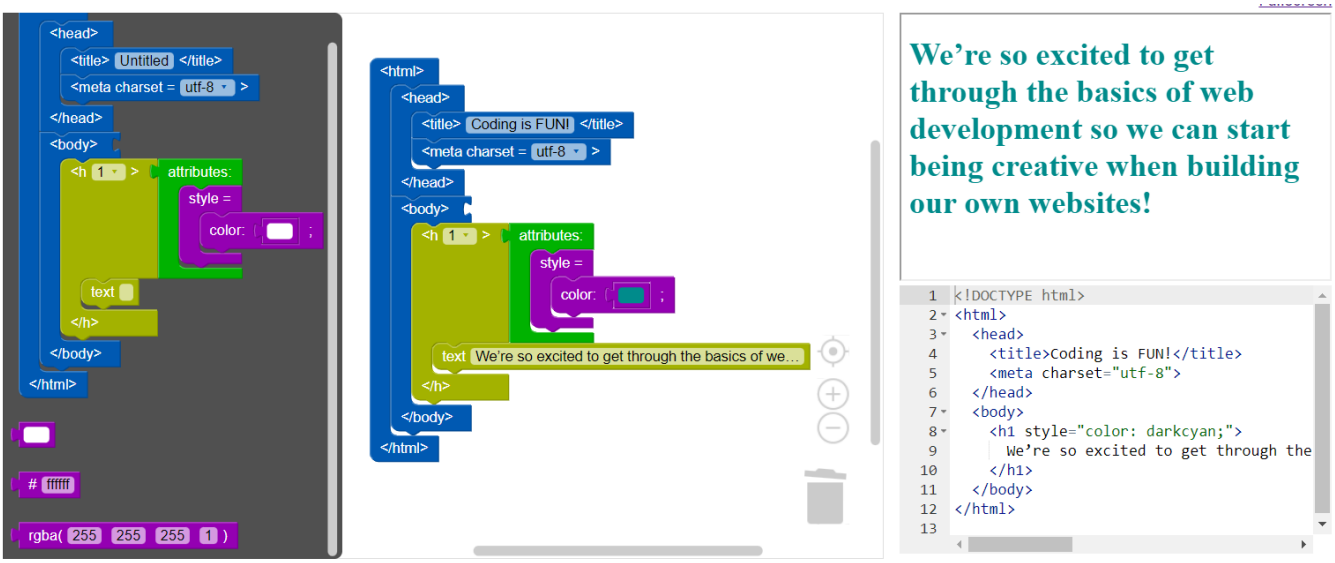
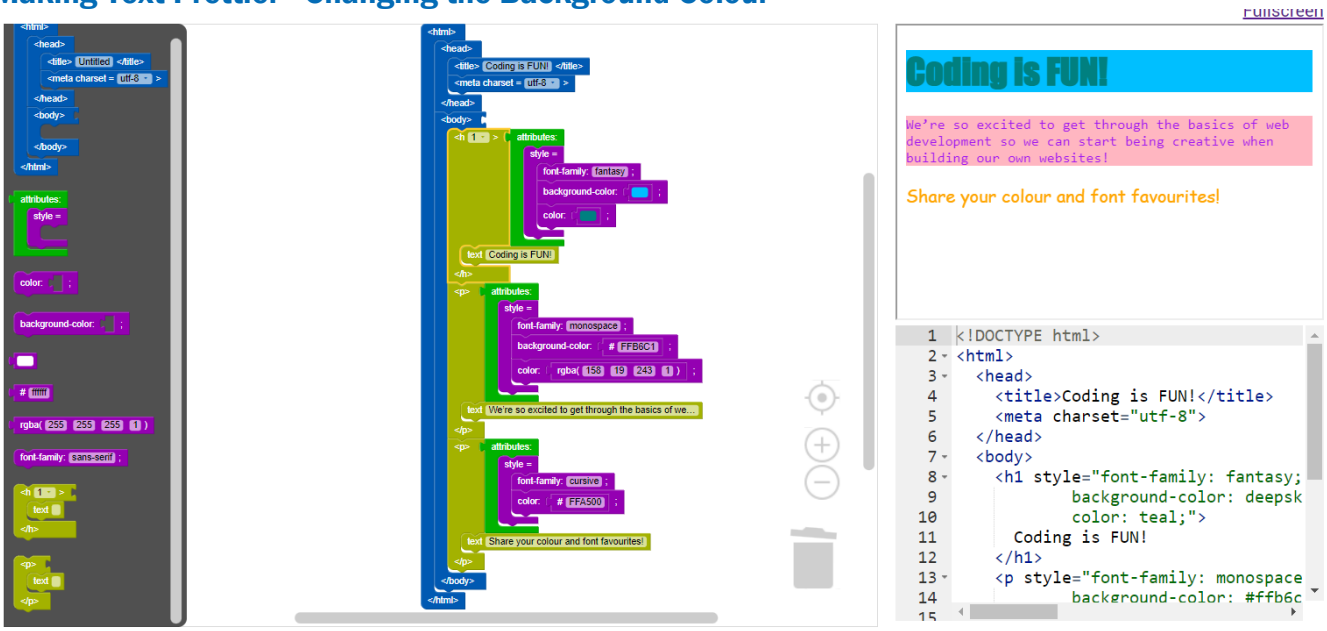
CSS Tutorial Cont'd

Making Text Prettier - Adding Colour with CodeDragon Colour Picker



Making Text Prettier - Changing the Background Colour



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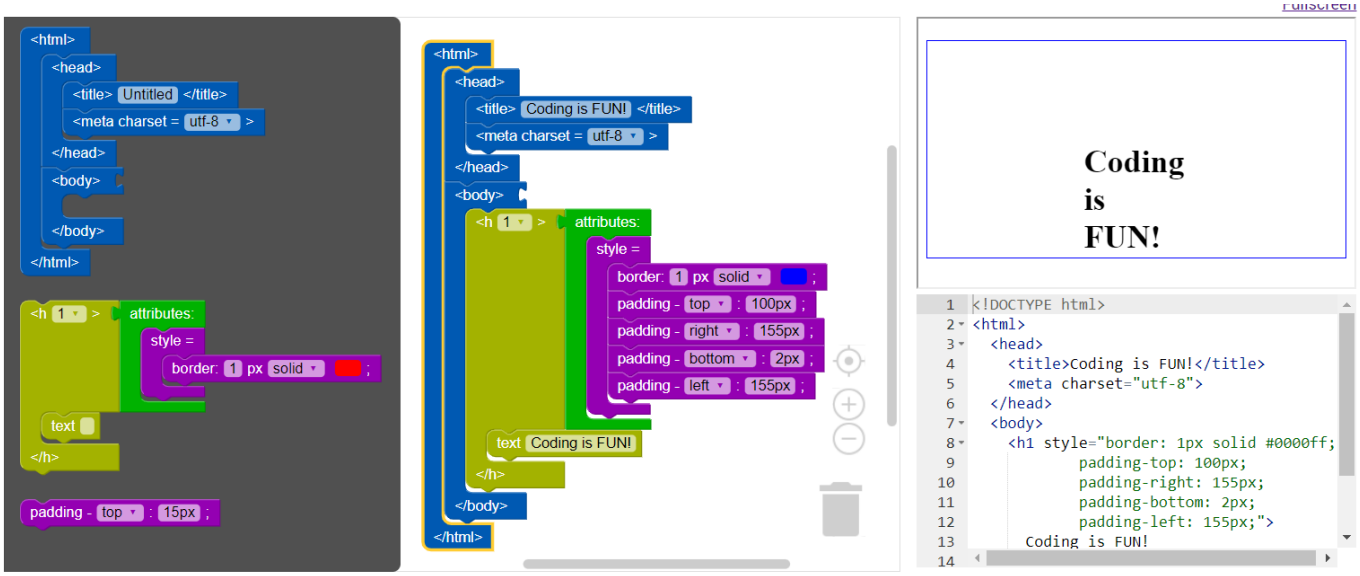
CSS Tutorial Cont'd

Making Text Prettier - Boxes and Margins

Making Text Prettier - Padding



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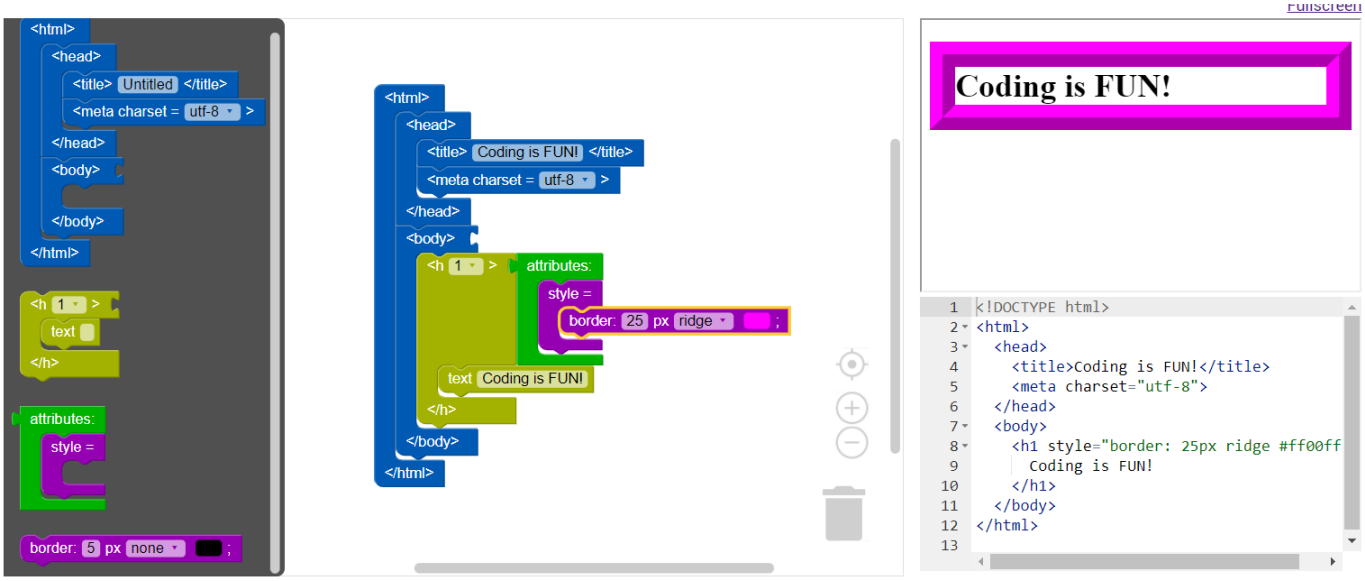
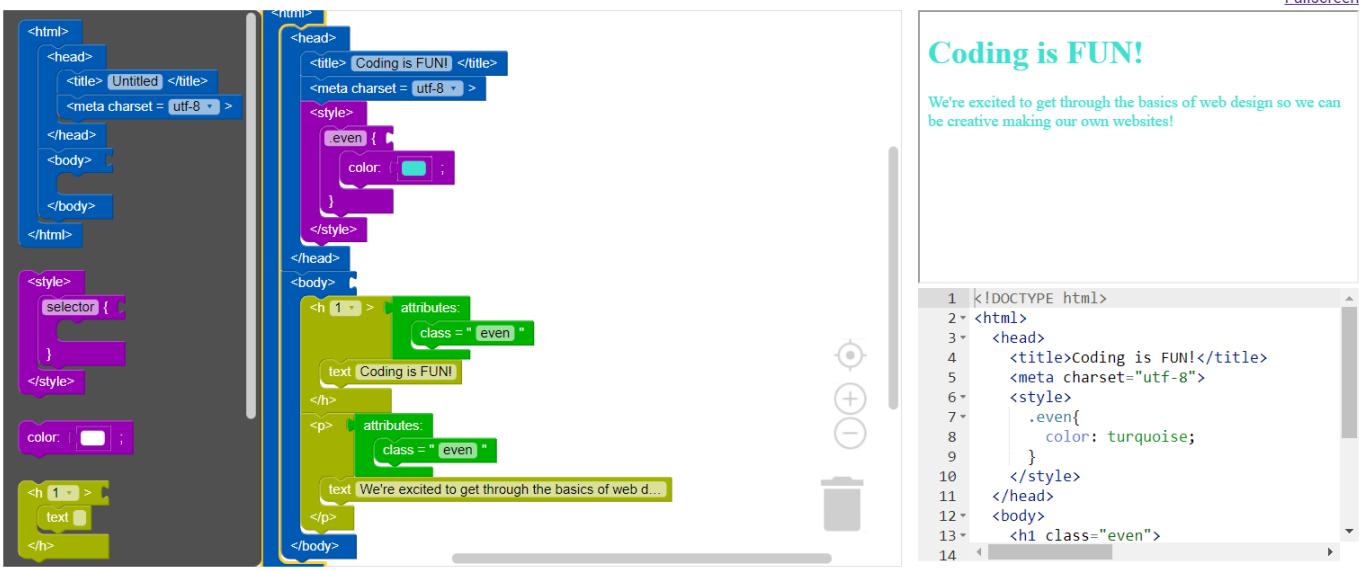
CSS Tutorial Cont'd

Making Text Prettier - Borders



Making Text Prettier - Classes



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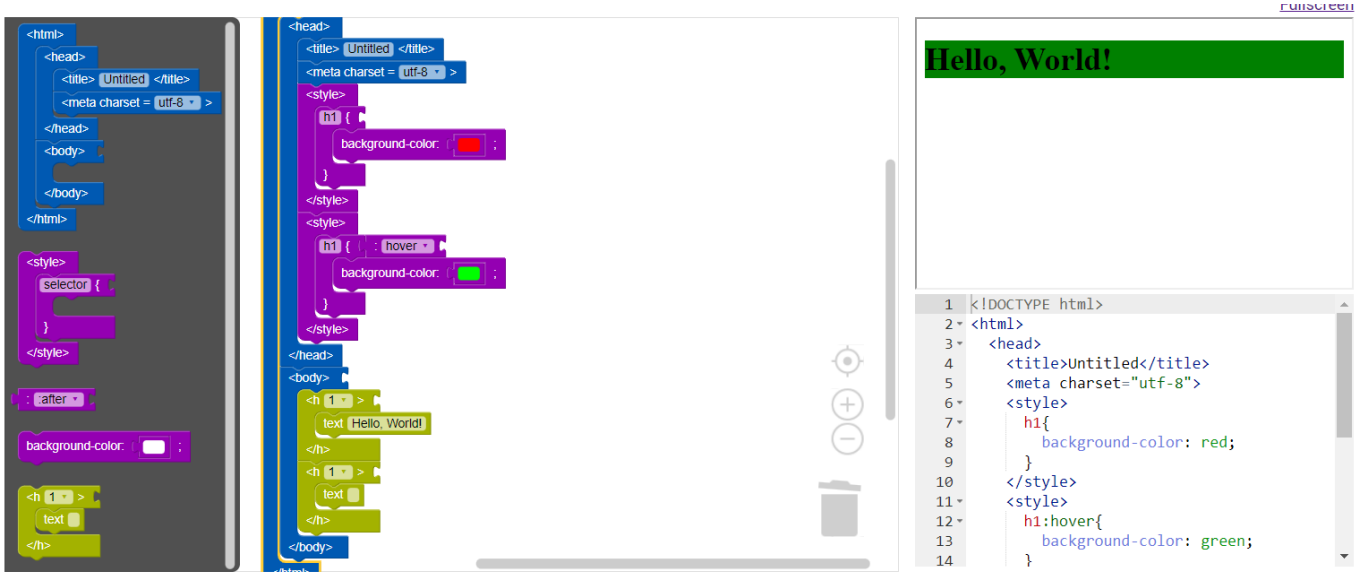
CSS Tutorial Cont'd

Making Text Prettier - Pseudo Classes



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