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CSI 3140
WWW Structures, Techniques and Standards

Cascading Style Sheets (CSS)

Motivation

- HTML markup can be used to represent
  - Semantics: `h1` means that an element is a top-level heading
  - Presentation: `h1` elements look a certain way
- It's advisable to separate semantics from presentation because:
  - It's easier to present documents on multiple platforms (browser, cell phone, spoken, …)
  - It's easier to generate documents with consistent look
  - Semantic and presentation changes can be made

Property	Continuous	Discrete
Input / Output	$x(t) \rightarrow \boxed{h(t)} \rightarrow y(t)$	$x[n] \rightarrow \boxed{h[n]} \rightarrow y[n]$
Time	$y(t) = \int_{-\infty}^{\infty} x(\lambda) h(t - \lambda) d\lambda$	$y[n] = \sum_{-\infty}^{\infty} x[k]h[n-k]$
Frequency	$Y(f) = X(f)H(f)$	$Y(e^{j\omega}) = X(e^{j\omega})H(e^{j\omega})$
s/z-Domain	$Y(s) = X(s)H(s)$	$Y(z) = X(z)H(z)$
Cascading	$\rightarrow \boxed{h_1(t)} \rightarrow \boxed{h_2(t)} \rightarrow$	$\rightarrow \boxed{h_1[n]} \rightarrow \boxed{h_2[n]} \rightarrow$
Time	$h(t) = h_1(t) * h_2(t)$	$h[n] = h_1[n] * h_2[n]$
Frequency	$H(f) = H_1(f) \cdot H_2(f)$	$H(e^{j\omega}) = H_1(e^{j\omega}) \cdot H_2(e^{j\omega})$
s/z-Domain	$H(s) = H_1(s) \cdot H_2(s)$	$H(z) = H_1(z) \cdot H_2(z)$
LCCDE	$\sum_{k=1}^{N} a_k \frac{d^k y(t)}{dt^k} = \sum_{k=1}^{M} b_k \frac{d^k x(t)}{dt^k}$	$\sum_{k=0}^{N} a_k y[n-k] = \sum_{k=0}^{M} b_k x[n-k]$
Frequency	$H(f) = \frac{Y(f)}{X(f)} = \sum_{k=0}^{M} b_k (j2\pi f)^k \Big/ \sum_{k=1}^{N} a_k (j2\pi f)^k$	$H(e^{j\omega}) = \frac{Y(e^{j\omega})}{X(e^{j\omega})} = \sum_{k=0}^{M} b_k e^{-j\omega k} \Big/ \sum_{k=0}^{N} a_k e^{-j\omega k}$
s/z-Domain	$H(s) = Y(s)/X(s) = \sum_{k=0}^{M} b_k s^k \Big/ \sum_{k=0}^{N} a_k s^k$	$H(z) = Y(z)/X(z) = \sum_{k=0}^{M} b_k z^{-k} \Big/ \sum_{k=0}^{N} a_k z^{-k}$
Impulse Resp	$h(t) = \mathcal{L}^{-1}\{H(s)\}$, partial fractions	$h[n] = \mathcal{Z}^{-1}\{H(z)\}$, partial fractions
Arbitrary Resp	$y(t) = \mathcal{L}^{-1}\{X(s)H(s)\}$, partial fractions	$y[n] = \mathcal{Z}^{-1}\{X(z)H(z)\}$, partial fractions
Sinusoid SS	$x(t) = A\cos(2\pi f_0 t + \phi)$ $y(t) = A|H(f_0)|\cos(2\pi f_0 t + \phi + \angle H(f_0))$	$x[n] = A\cos(\hat{\omega}_0 n + \phi)$ $y[n] = A|H(e^{j\hat{\omega}_0})|\cos(\hat{\omega}_0 n + \phi + \angle H(e^{j\hat{\omega}_0}))$
Stability		
Time	$\int_{-\infty}^{\infty} |h(t)| dt < \infty$	$\sum_{-\infty}^{\infty} |h[n]| < \infty$
s/z-Domain	$j\omega$-axis $\subset$ Region of convergence	unit circle $\subset$ Region of convergence
s/z-Causal	poles in left-half plane	poles inside unit circle

How do cascading style sheets work. What is meant by cascading style sheets. Cascading style sheets syllabus. What is cascading style sheet with example.

We create a style sheet with an .CSS extension and include its connection in the HTML document, like this: in the code above, we have Including the connection of the Style.css file using the connection element. The list does not end here, there are many other interesting things that you can do with CSS. The only difference between class and Id is that an ID can be assigned to a single HTML element. this is a paragraph #para1 {color: green; Font-size: 16px; } The example above shows how we assign an ID to the element of the paragraph and then we use the ID selector in the style sheet to select the paragraph and apply the style on it. Fonts & Colorscss literally provides us with hundreds of options to play with the characters and colors and making our elements HTML Belli. Generic family: a group of families of character with a similar aspect (such as "serif" or "monospace") 2. You can present the same page differently on different devices. Let's see how it works: H1 {font-size: 20px; } P {Color: Green; } div {margin: 10px; } The example above is almost self -explosive. Note: our CSS tutorial helps you to learn the foundations of the latest CSS3 language, from the basic topics to the advanced-step topics. Easy maintenance - CSS provides a simple means to update documents formatting and maintain consistency on more documents. You should take a look at our reactive web design bootcamp if you want to learn to build a modern website on a professional level. Click here to reach the advanced bootcamp. To solve this problem, the CSS was introduced in 1996 by the World Wide Web Consortium (W3C), which also maintains standard. Generally there are three ways in which we do it. CSSFIRST online, we can include CSS directly in ours HTML. It that this tutorial covers this series of CSS tutorial covers all the foundations of the CSS, including the idea the idea Selectors, methods for setting colors and backgrounds, way of formatting characters and text, elements of the style interface of style such as hypertext links, lists, tables, etc. In the style sheet, we select our class using the .Classname format and giving it a 10px margin. 3. Idlike classes, we can also use ID to select HTML elements and apply the style to them. In HTML, we can assign different classes to our elements. CSS is a standard style sheet language used to describe the presentation (i.e. layout and formatting) of the web pages. Once you feel comfortable with the bases, you will pass to the next level that explains the way to set the Dimension and alignment of elements, the methods for positioning the elements on a web page, using the sprites of images, as well as the concept of relative and relative absolute units, visual formatting model, display and visibility, levels, classes of pseudo and elements, style sheets dependent on the media and so on. And to model the elements, you must first select them. Click here! CSS (cascade style sheets) is that makes web pages good and presentable. Finally, you will explore some advanced functionalities introduced in CSS3 such as the colors of the gradient, drop shadows, 2D and 3D transformations, alpha transparency, as well as the method for creating transition and animation effect, flex layout, filter effect, medium questions and more concept still. If you are a beginner, start with the basic section and gradually go on learning a little every day. The pages load more quickly, CSS allows more pages to share the formatting information, which reduce the complexity and repetition in the structural content of the documents. It is possible to change the display of existing HTML elements. This is called internal style. h1 {color: blue; } In the style element, we can give style to our HTML elements by selecting the elements and providing style attributes. Using CSS the same document HTML can be presented in in View styles for different rendering devices such as desktop, cell phones, etc. It is possible to create a printable version of your web pages. Each element can have more classes and each class can be applied even to more elements. > .Container {margin: 10px; } In the code above, we assigned the class of container to the element div. Just as we applied the propensity to the element H1 above. 3. External CSS the third and most recommended to include CSS uses an external style sheet. We are selecting different elements such as H1, P, Div and giving them different style attributes. We can choose between two types of names of family members: 1. You can model dynamic states of elements such as hover, focus, etc. The CSS Box model is not the concept of model and so on. Before CSS, almost all the attributes of presentation of the HTML documents were contained within the HTML Markup (in particular within the HTML tags); All the colors of the character, the background styles, the alignments of the elements, the edges and the dimensions had to be explicitly described inside the HTML. Consequently, the development of the great websites has become a long and expensive process, since the style information has been repeatedly added to each individual page of the website. CSS saves a lot of time - CSS offers a lot of flexibility to set up style of an element. Hello World! Here we are giving ourselves the propriety of the color and setting the value on blue, which translates itself in the following: we can also set more properties inside the style tag if we wanted it. However, I don't want to continue on this path, the things are starting to become disordered if our HTML is cluttered with a lot so that it is easily { blue color; } This style sheet can also be imported into other HTML files, so this is excellent for reusability .css selecersas that we have previously discussed, CSS is a design language that is used to model HTML elements. Family of characters: a family of specific characters (such as "times the new Roman" or "air") for colors, we can use names of predefined or RGB colors, hexagonal, HSL, RGBA, HSLA values. css is coooooool !!!! .Container {width: 500px; Height: 100px; Background-Color: Lightcyan; ALIGS TEXT: Center; } .Heading1 {Font-Family: 'Courier New'; Color: tomato; } As you can see in the example above, we have an element desk with the container class. Now web designers can move the web pages formatting information into a separate style sheet that translates into an HTML markup considerably simpler and a better maintenance. You can check the presentation of more pages of a website with a single style sheet. CSS has been designed to allow the separation of presentation and content. The size of the character controls the size of the text, the color sets the color of the text and the margin adds the spacing around the element. Classifher Way to select HTML elements is using class attribute. Tip: Each chapter of this tutorial contains many examples of the real world that you can try to test using an online editor. Inside this div, there is an H1 tag with a little text inside. In the style sheet, select the class of the container and set its width, height, background color and Text-Align. Finally, we select the class .heading1 ". Â € â,¬ â € âä â,¬ å which is applied to the tag h1 ~ Vent ~ ¢ Ã establish and give it the attributes of the family and color. Conclusion Feeling a little overwhelmed by all this information, but don't worry. Take a look at our free introduction course at the CSS on Scrimba and you will be a web design ninja in less than an hour. Thanks for reading! My name is for Borgen, I am the co-founder of Scrimba-The simpler way to do it to codify. Because the content of the entire web pages set can be easily controlled using one or more style sheets. in 2D or 3D space. You will all learn in detail in the next chapters. CSS3 adds several new style functionalities and improvements to improve web presentation skills. It significantly reduces the size of the transfer of the file, which translates into a faster page loading. For this, we use the attribute of style and therefore we provide ownership to it. Hello World! Here we are giving ourselves the propriety of the color and setting the value on blue, which translates itself in the following: we can also set more properties inside the style tag if we wanted it. However, I don't want to continue on this path, the things are starting to become disordered if our HTML is cluttered with a lot of CSS inside. This is the reason why the second method was introduced to include CSS.2. Internal CSS the other way to include CSS uses the style element in the head section of the HTML document. CSS stands for cascade style sheets. You have already been looking at how it works, but let's do a little more deeply in the CSS selectors and look three different ways to select HTML.1 elements. The element is the first way to select an HTML element is simply using the name, which is what we have done above. You can write CSS once; And therefore the same code can be applied to groups of HTML elements and can also be reused in more HTML pages. Here are some other advantages, why should you start using CSS? It is possible to create animations and transition effects without using any javascript. Advantages of the use of CSS The most large advantage of CSS is that allows the separation of style and layout from the content of the document. CSS3 is the latest version of the CSS specification. Examples will help you better understand the concept or topic. You can easily apply the same style rules on more elements. Stiles higher than HTML â ¢ âvelop " It has a far -large presentation functionality of HTML and provides a much better check on the layout of your web pages. Also contains intelligent solutions and useful suggestions and important notes. So it is a good idea to use as much CSS as possible to increase the adaptability of your website and make them compatible also for future browsers. Do you want to follow our free CSS course? Tip: now most HTML attributes are deprecated and it is not advisable to use. It is not possible otherwise. CSS is the key presentation technology used in the design of the website. What can you do with CSS there are many more things you can do with CSS. So you can give a much better appearance to your web pages than the presentation elements and HTML attributes. Click here to check it. I suppose you have a basic understanding of HTML, but apart from the fact that there are no prerequisites for this tutorial. Start, started learning how we can include CSS in our projects. It is possible to change the position of an element on a web page without changing the markup. Mark up.

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