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What are the main benefits of using CSS?

It is able to style html that would otherwise be boring. It would be a terrible user experience without CSS manipulating HTML. Especially now with CSS3 being able to do things that only Javascript could do, it opens up a whole new realm of user experience.

Compare the approach the W3C has used with CSS3 in comparison to CSS2.1.

It seems as though with 2.1, W3C was only fixing the long list of errors CSS2.0 had. With CSS3 there has been a big push for unique modules and language standardization. Furthermore, it seems as though 3.0 was a fresh start that ditched all the bad things of 2.1.

What are the different parts of a CSS style rule?

First is the selector, the element, class, id, etc. that is going to be manipulated. Then is the declaration that consists of a property, like color, and a value, like blue. Together they make a cocktail of fun.

What is the difference between a relative and an absolute measure unit in CSS? Why are relative units preferred over absolute units in CSS?

Relative units are modular and are usually responsive to the parent elements and/or the viewport. Absolute units are fixed, as in they will not change with regard to their parent elements and/or the viewport. Again, relative units are mostly preferred because they work so well with different viewport sizes.

What is an element selector and a grouped element selector? Provide an example of each.

An element selector specifies an HTML selector to manipulate.

Example:
```
h1 {
        font-family: sans-serif;
}
```

A grouped element selector is the same thing, but selecting more than one HTML element.

Example
```
h1, p, ul > li {
        font-family: sans-serif;
}
```

What are class selectors? What are id selectors? Briefly discuss why you would use one over the other.

Class selectors are classes specified in HTML that are specified in CSS to be manipulated.

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Example:
    .turn-red {
        color: red;
    }
    Whatever HTML element has the turn-red class specified will have red text.

Id selectors are the same thing but for specified ids.

Example:
    #wrapper {
        margin:0 auto;
    }
    Ids are unique and can only be used once. Here is a classic example of a wrapper id to set up the dynamic spacing of content.

The only reason to use one over the other is if you plan to use the style more than once.

What are contextual selectors? Identify the four different contextual selectors.

Contextual selectors are selectors that select certain tags nested within other tags.

Example:
    h1 p {
            …
    }
    This selector statement would select all paragraph tags that are a child of an h1 tag.

What are pseudo- class selectors? What are they commonly used for?

        Pseudo class selectors are selectors that give whatever specified additional functionality. From W3 'A pseudo-class is used to define a special state of an element.' I have used the :hover pseudo class mostly. On a mouse hover fade out, fill in background color, add padding, etc.

What does cascade in CSS refer to?

The hierarchy of precedence for styling inline, embedded, and linked. Inline styling will override embedded which will override any linked styling.

What are the three cascade principles used by browsers when style rules conflict? Briefly describe each.

Origin and Importance:
        The origin of a declaration is based on where it comes from and its importance is whether or not it is declared !important

Scope:

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A declaration can be scoped to a subtree of the document so that it only affects its scoping element and that element's descendants.
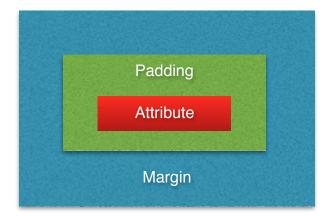
Specificity:
The Selectors module [SELECT] describes how to compute the specificity of a selector.

Order of Appearance:
The last declaration in document order wins.

Illustrate the CSS box model. Be sure to label each of the components of the box.

Border

What is a web font stack? Why are they necessary?

It is a list of fonts that are available to you to use. It is more like a list of acceptable fonts you can use. To use your other types other than the defaults you have to import font libraries into your CSS file. The browser needs to know how to render the font you are using. That is why it is always a good practice to include a generic web font like sans-serif.