ISTE Crypt Take-home Assignment

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1. See HTML files in drive.

2.

A website must not communicate only with its viewers, but with everything that can access it. For example, search engines.

A search engine will see the starting of an HTML document and see if there is the keyword it is looking for. So, it is more useful to include the relevant text near the beginning of an HTML document, rather than pushing images and links first and putting the actual content behind.

People who are blind and search using screen readers. For them, the CSS has no meaning and they rely solely on the HTML. So, the webpage must be designed taking that into account.

For example, in the <img> tag, it is not enough to just give the src attribute i.e. link to the image, as screen readers cannot see the image. So it is best to give an alt attribute which is an alternate text, and this should be descriptive of the image. It is also useful if the image doesn’t load for some reason, as the text will then be displayed instead of the image.

In HTML 4 and before, there was only the <div> and <span> tag, which offers no clue as to what it is wrapping inside. Now we have the <figcaption> and <figure> tag, which can be used to wrap an figure along with a caption inside as the name suggests. The new tags are *self-descriptive* in nature, which gives a lot of hint as to what it’s doing.

For example, the <navbar> tag will contain the navigation links, the <header> tag will contain the header of the website while <footer> will have the footer. The <main> tag is where the real content is, and it would be easy for search engines to just search in the <main> tag instead of going through the entire HTML.

Even <b> and <i> for bold and italic respectively, have been replaced (with backward compatibility) by <strong> and <em>. This is because just <b> and <i> don’t say *why* the text is bold or italic. <strong> clearly says its purpose and so does <em> (emphasize text).

There is the <form> tag now which can be used to put all the text fields and submit buttons, which previously were arranged unrelated to each other, together in a whole which works together.