

HTML4: HTML/CSS Deep Dive

So you've done all the basics. You dream in angled brackets. CSS specificity and inheritance flow through your mind in a concise visual torrent. To really go above and beyond, explore and respond to these more advanced HTML/CSS challenges:

CSS Performance

Minification

- How does CSS minification reduce page load time?
- What tools are available for minifying CSS?
- How can a developer incorporate minification into a build process?

Serving Style

- Highly optimized sites take a strategy of serving some CSS in an external stylesheet and some CSS in a style element within the HTML page itself. For best performance, which CSS should be served internally and which externally? Hint: consider browser caching behavior.

Web Fonts

- What is the state of web fonts today?
- What are good cross-browser solutions to including custom, scalable fonts in your website?
- What limitations exist?

HTML5 Video

- How is the HTML5 video element used?
- What browser support exists for it today?

- How can embedded video be made responsive?

Power Sprites

- Build a demo site that uses a command line utility to generate sprites from a folder of images. Streamline the process as much as possible so that a developer can simply drop a new image into the folder and run the command line utility to re-generate the sprite image without having to make any modifications to the HTML or CSS.