Web Development and Deployment

- Web development and deployment involves a lot of repetitive tasks

- The DRY (do not repeat yourself) principle

- Need for build tools to automate tasks

CSS Tasks

- Compiling Sass or Less into CSS
- Running Autoprefixer to add any vendor prefixes that are needed
- Minification: removing unnecessary characters (white spaces, newlines, comments) from source code without compromising functionality
- Concatenation

JavaScript Tasks

- JSHint: Checking JavaScript code for errors and potential problems (static code analysis)
- Concatenation
- Uglification: minification + mangling (reduce local variables to single letters)
- Rechecking for errors

Other Tasks

- Images: optimizing files to reduce file size
- Watch: watching for changes in files and automatically rerunning tasks
- Server and Livereload
- Testing
- Building your site for deployment