

3.0 hours

Project 8

Using Gulp to Build a Front End Website

Why can't I submit this project yet?

You must first complete all prior Techdegree content before you can submit this project. Additionally, you cannot submit more than one project at a time.

[Submit for Peer Review](#)

Your current activity is [HTML Tables](#).

- [Instructions](#)
- [How you'll be graded](#)

In this project you'll be provided a website with HTML, SCSS, JPEGs, PNGs and JavaScript files. You'll be required to set up a Gulp build process to prepare the website for deployment.

The build process must fulfill the following criteria:

- Concatenate and minify the JavaScript files
- Compile SCSS into CSS in a concatenated and minified file
- Generate JavaScript and CSS source maps
- Compress any JPEG or PNG files

All output for the build process should be in a dist folder for distribution or deployment.

Before you start

To prepare for this project you'll need to make sure you complete and understand these steps.

[4 steps](#)

- To prepare for this project you'll need to make sure you complete and understand these steps.
- **Have a GitHub account and know how to create a new repository and upload files to it. As with the previous projects, you'll submit your finished working using GitHub.**
- **If you need a reminder on how to use GitHub and GitHub desktop to create a new repository check out the workshop 'Share Your Projects wIth GitHub Desktop' in the Project Resources.**
- **Download the project files. We've supplied a project folder containing the following files for you to use:**
 - `index.html` -- the web page for the project
 - `images` directory -- contains jpg and png images
 - `sass` directory -- contains various Sass files

- `js` directory -- contains a `global.js` file and a subdirectory -- `circle` -- with two other helper JavaScript files
- `icons` directory -- you can ignore this folder in your build process, but you will need to copy this folder over to the `dist` directory for the final build

Project Instructions

To complete this project, follow the instructions below. If you get stuck, ask a question in the community.

[8 steps](#)

- As a developer, I should be able to run the `npm install` command to install all of the dependencies for the build process.
- As a developer, I should be able to run the `gulp scripts` command at the command line to concatenate, minify, and copy all of the project's JavaScript files into an `all.min.js` file that is then copied to the `dist/scripts` folder.
- As a developer, I should be able to run the `gulp styles` command at the command line to compile the project's SCSS files into CSS, then concatenate and minify into an `all.min.css` file that is then copied to the `dist/styles` folder.
- As a developer, when I run the `gulp scripts` or `gulp styles` commands at the command line, source maps are generated for the JavaScript and CSS files respectively.
- As a developer, I should be able to run the `gulp images` command at the command line to optimize the size of the project's JPEG and PNG files, and then copy those optimized images to the `dist/content` folder.
- As a developer, I should be able to run the `gulp clean` command at the command line to delete all of the files and folders in the `dist` folder.
- As a developer, I should be able to run the `gulp build` command at the command line to run the `clean`, `scripts`, `styles`, and `images` tasks with confidence that the `clean` task completes before the other commands.
- As a developer, I should be able to run the `gulp` command at the command line to run the `build` task and serve my project using a local web server.

Extra Credit

To get an "exceeds" rating, you can expand on the project in the following ways:

[1 step](#)

- As a developer, when I run the default `gulp` command, it should continuously watch for changes to any `.scss` file in my project. When there is a change to one of the `.scss` files, the `gulp styles`

command is run and the files are compiled, concatenated, and minified to the dist folder. My project should then reload in the browser, displaying the changes.

NOTE:

- To get an "Exceeds Expectations" grade for this project, you'll need to complete **each** of the items in this section. See the rubric in the "**How You'll Be Graded**" tab above for details on how you'll be graded.
 - If you're shooting for the "Exceeds Expectations" grade, it is recommended that you mention so in your submission notes.
 - Passing grades are final. If you try for the "Exceeds Expectations" grade, but miss an item and receive a "Meets Expectations" grade, you won't get a second chance. Exceptions can be made for items that have been misgraded in review.
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Download files

Zip file

Project Resources

[Course](#)

[Gulp Basics on Treehouse](#)

[Course](#)

[Scrum Basics](#)

[Workshop](#)

[Using GitHub for the Degree Program Workshop](#)

Need Help?

Have questions about this project? Start a discussion with the community and Treehouse staff.

[Get Help](#)

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