

Gulp & Sass

Task Runner & CSS Preprocessor

Gulp

- All about automation
- Improves your workflow
- <http://gulpjs.com/>

Sass

- **Syntactically Awesome Stylesheets**
- Initially designed by Hampton Catlin, and developed by Natalie Weizenbaum.
- Maintained by Natalie and Chris Eppstein.
- <http://sass-lang.com/>

Installs

npm install -g gulp

npm init

npm install --save-dev gulp

npm install --save-dev gulp-sass

Setup Gulp

- **Gulpfile.js**
- Add dependencies using require()
 - Since Gulp runs on Node

```
var gulp = require('gulp');
```

```
var sass = require('gulp-sass');
```

Gulp tasks

- Gulp has some basic tasks that you can leverage
 - **task** // register a new task
 - **pipe** // add a new plugin or function into a task
 - **start** // kick off a bunch of tasks
 - **watch** // watch files and run task when on change
 - **dest** // where things get put at end of task

Gulp task for Sass

- **Gulpfile.js**

```
gulp.task('styles', function() {  
  
  gulp.src('sass/**/*.*scss')  
  
    .pipe(sass().on('error', sass.logError))  
  
    .pipe(gulp.dest('./css/'))  
  
});
```

Add a scss file into your project

- `mkdir sass`
- `cd $_`
- `touch main.scss`
- add some stuffs

Gulp styles

- will convert .scss to .css for you.

Include the css file in index.html

- touch index.html
- include css reference
- add some placeholder copy
 - *div*4>lorem*5*

Gulp watch

//Watch task

gulp.task('default',function() {

*gulp.watch('sass/**/*.*scss',['styles']);*

});

Browser Sync and Gulp

- BrowserSync - the evolution of LiveReload
- <http://www.browsersync.io/docs/gulp/>

npm install browser-sync gulp --save-dev

Add to Gulpfile.js

```
var browserSync = require('browser-sync').create();
```

Syncing Changes to browser

- **Streams** are supported in Browsersync, so you can call **reload** at specific points during your tasks and all browsers will be informed of the changes.
- Because Browsersync only cares about your CSS when it's finished compiling - **make sure you call `.stream()` after `gulp.dest`**

Add Browser Sync Task

// Static Server + watching scss/html files

```
gulp.task('serve', ['sass'], function() {
```

```
  browserSync.init({
```

```
    server: "./"
```

```
  });
```

```
  gulp.watch("sass/**/*.*scss", ['sass']);
```

```
  gulp.watch("*.html").on('change', browserSync.reload);
```

```
});
```

Combine Sass with Browser Sync

// Compile sass into CSS & auto-inject into browsers

```
gulp.task('sass', function() {
```

```
  return gulp.src("sass/**/*.*scss")
```

```
    .pipe(sass().on('error', sass.logError))
```

```
    .pipe(gulp.dest("./css/"))
```

```
    .pipe(browserSync.stream());
```

```
});
```

```
gulp.task('default', ['serve']);
```


It works!

- But all the *.scss files are converted to CSS
- We just want one file, styles.css

Gulp concat to the rescue!

- Will concatenate all your css into a single file

npm install gulp-concat -- save-dev

Include dependency in Gulpfile.js

```
var concat = require('gulp-concat');
```

Add it into Sass task

// Compile sass into CSS & auto-inject into browsers

```
gulp.task('sass', function() {
```

```
  return gulp.src("sass/**/*.*scss")
```

```
    .pipe(sass().on('error', sass.logError))
```

```
    .pipe(concat('styles.css'))
```

```
    .pipe(gulp.dest("./css/"))
```

```
    .pipe(browserSync.stream());
```

```
});
```

Update css reference in index.html

<link rel="stylesheet" href="css/styles.css">