021 Gulp - watch

Gulp Kata List – Blog Page

[Gulp Kata List on GitHub](https://github.com/robertdunaway/katas-gulp)

# Duration

10 minutes

# Brief

In this kata you will configure watch tasks.

### For More Information

BING/GOOGLE: “Gulp ”

Book: <http://www.amazon.com/Gulp-Quick-guide-getting-running/dp/151468960X>

# Instructions

Get tutorial folder or the entire katas-angular2 repo.

Open the [before/\*.sln] file and execute the kata.

Feel free to execute this kata multiple times because repetition creates motor memory.

# Github

* Before (start kata with this)
  + [https://github.com/](https://github.com/robertdunaway/katas-typescript/tree/master/001%20TypeScript%20-%20declare%20variables)
* After
  + [https://github.com/](https://github.com/robertdunaway/katas-typescript/tree/master/001%20TypeScript%20-%20declare%20variables/after)

# Kata

Executing the default task, for every change, would consume more CPU and time than is required during development where files are changed one at a time. For dealing with individual files as they change, we can use the Watch plugin.

Configure watch tasks to do this following:

* Copy any file changes under the src folder to wwwroot.
* Transpile and reload any \*.ts files that change under wwwroot.
* Lint any \*.ts file that change under wwwroot.
* Optimize any \*.html files that change under wwwroot.
* After a file under wwwroot is processed reload the browser.

NOTE: Livereload only works with Chrome.exe via the LiveReload plugin.

<https://chrome.google.com/webstore/detail/livereload/jnihajbhpnppcggbcgedagnkighmdlei?hl=en>

# Review

From the command-line install

npm install gulp-watch --save-dev

Add the module to the Gulp file

, watch = require('gulp-watch')

Create the watch tasks

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

livereload.listen();

// ---------------------------------------------------------------

// Watching JS files

// ---------------------------------------------------------------

// Copy all files except \*.js files.

gulp.watch(['src/\*\*/\*'], function () { runSequence('copy-to-wwwroot'); });

// ---------------------------------------------------------------

// Watching TypeScript files

// ---------------------------------------------------------------

gulp.watch(['wwwroot/\*\*/\*.ts', '!wwwroot/lib/\*\*/\*.\*', '!wwwroot/css/\*\*/\*.\*'], function () { runSequence('tscompile', 'reload'); });

// ---------------------------------------------------------------

// Watch - Execute linters

// ---------------------------------------------------------------

gulp.watch(['wwwroot/\*\*/\*.ts', '!wwwroot/lib/\*\*/\*.\*', '!wwwroot/css/\*\*/\*.\*'], function () { runSequence('tslint'); });

// ---------------------------------------------------------------

// Watching HTML files

// ---------------------------------------------------------------

gulp.watch(['wwwroot/\*\*/\*.html', '!wwwroot/\*\*/\*.min.html', '!wwwroot/lib/\*\*/\*'], function () { runSequence('minifyhtml', 'reload'); });

});

# Next

Take a few minutes and imagine more examples.