004 Gulp - series & parallel

Gulp Kata List – Blog Page

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

# Duration

5 minutes

# Brief

Using the existing gulpfile.js manage the sequence tasks are executed. Execute the first two in parallel and the last after the first two complete.

### For More Information

BING/GOOGLE: “Gulp sequence”

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/robertdunaway/katas-gulp/tree/master/004%20Gulp%20-%20series%20%26%20parallel/before>
* After
  + <https://github.com/robertdunaway/katas-gulp/tree/master/004%20Gulp%20-%20series%20%26%20parallel/after>

# Kata

Using the existing gulpfile.js configure the three functions to run in a defined sequence. Execute “task1”, “task2” and when these finish execute “task3”.

Controlling sequence is important to the build process. If your build process involves copying source code to a dist folder and then processing the files, then the file copy must complete before the additional processing begins.

# Review

The first thing we need to do is find a module for executing tasks in series and/or parallel.

Go to: <https://www.npmjs.com/>

Search for “task sequence”.

run-sequence is a popular module with about 20,000 downloads each day. This looks like a well-supported plug-in. Gulp 4, in beta, offers native support for sequencing tasks with dependencies.

Run the following at the command line and in the root of your project.

npm install --save-dev run-sequence

Update the default task to use the runSequence module to run all three tasks in parallel.

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

runSequence(['task1', 'task2', 'task3'])

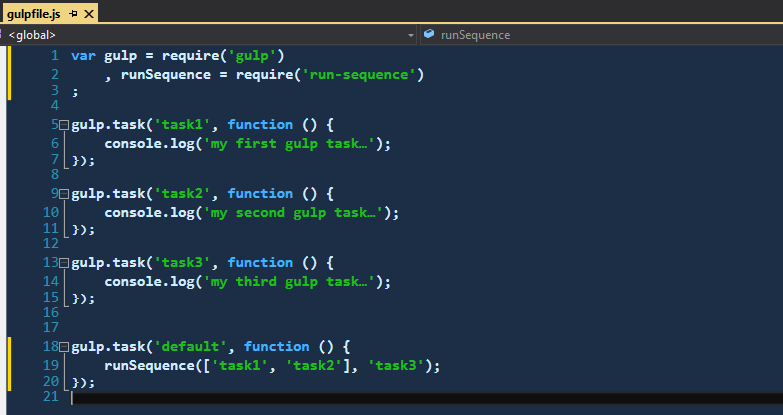
});

Now alter the sequencing such that “task1” and “task2” run in parallel and “task3” runs after “task1” and “task2” complete.

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

runSequence(['task1', 'task2'], 'task3');

});



# Next

Take a few minutes and imagine more examples.