008 Gulp - glob pattern matching

Gulp Kata List – Blog Page

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

# Duration

10 minutes

# Brief

Using Glob Patterns

### For More Information

BING/GOOGLE: “Gulp glob patterns”

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

Wikipedia: <https://en.wikipedia.org/wiki/Glob_%28programming%29>

# 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/008%20Gulp%20-%20glob%20pattern%20matching/before
* After
  + https://github.com/robertdunaway/katas-gulp/tree/master/008%20Gulp%20-%20glob%20pattern%20matching/after

# Kata

Glob patterns are patterns used for pattern matching. Gulp uses globs for defining lists of files to stream into the Gulp pipeline.

Here is an excellent resource for globs  
<https://en.wikipedia.org/wiki/Glob_%28programming%29>

Here is a more in-depth resource on glob patterns.  
<https://github.com/isaacs/node-glob>

The easiest way to demonstrate glob patterns is copying files to a folder. This requires no plugins and has the benefit of easily identifying what files were captured in the glob pattern.

1 Create a task, named copy-to-wwwroot, to copy all files and folders of the src folder to wwwroot. This is a common practice with Visual Studio as wwwroot is the default web site directory.

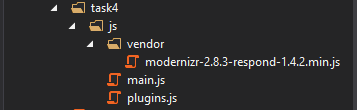
2 Create a task, named task2, to copy a single file “humans.txt” to folder named task2. If the folder doesn’t already exist it will be created.

3 Create a task, named task3, to copy an array of files humans.txt, robots.txt, favicon.ico, tile.png to folder named task3.

4 Create a task, named task4, to copy all JavaScript files to a folder named task4.

5 Create a task, named task5, to copy all JavaScript files to a folder named task5 excluding any minified files. In task 4 you will notice one minified file was copies.

Files copied in task 4



6 Create a task, named task6, to copy all JavaScript files to a folder named task6 excluding any minified files. See if you can achieve this task with a single glob statement.

7 Identify what the remaining glob patterns do.

src

src/

src/\*

src/\*.\*

src/\*\*

src/\*\*/

src/\*\*/\*

src/\*\*/\*.\*

# Review

1 Create a task, named copy-to-wwwroot, to copy all files and folders of the src folder to wwwroot.

gulp.task('copy-to-wwwroot', function () {

return gulp.src(['src/\*\*/\*'])

.pipe(gulp.dest('wwwroot'));

});

2 Create a task, named task2, to copy a single file humans.txt to folder named task2. If the folder doesn’t already exist it will be created.

gulp.task('task2', function () {

return gulp.src(['src/humans.txt'])

.pipe(gulp.dest('task2'));

});

3 Create a task, named task3, to copy an array of files humans.txt, robots.txt, favicon.ico, tile.png to folder named task3.

gulp.task('task3', function () {

return gulp.src(['src/humans.txt', 'src/robots.txt',

'src/favicon.ico', 'src/tile.png'])

.pipe(gulp.dest('task3'));

});

4 Create a task, named task4, to copy all JavaScript files to a folder named task4.

gulp.task('task4', function () {

return gulp.src(['src/\*\*/\*.js'])

.pipe(gulp.dest('task4'));

});

5 Create a task, named task5, to copy all JavaScript files to a folder named task5 excluding any minified files. In task 4 you will notice one minified file was copies.

gulp.task('task5', function () {

return gulp.src(['src/\*\*/\*.js', '!src/\*\*/\*.min.js'])

.pipe(gulp.dest('task5'));

});

6 Create a task, named task6, to copy all JavaScript files to a folder named task6 excluding any minified files. See if you can achieve this task with a single glob statement.

gulp.task('task6', function () {

return gulp.src(['src/\*\*/!(\*.min).js'])

.pipe(gulp.dest('task6'));

});

src

src/

src/\*

src/\*.\*

src/\*\*

src/\*\*/

src/\*\*/\*

src/\*\*/\*.\*

# Next

As our katas become more complex you will see more examples of glob patterns.