

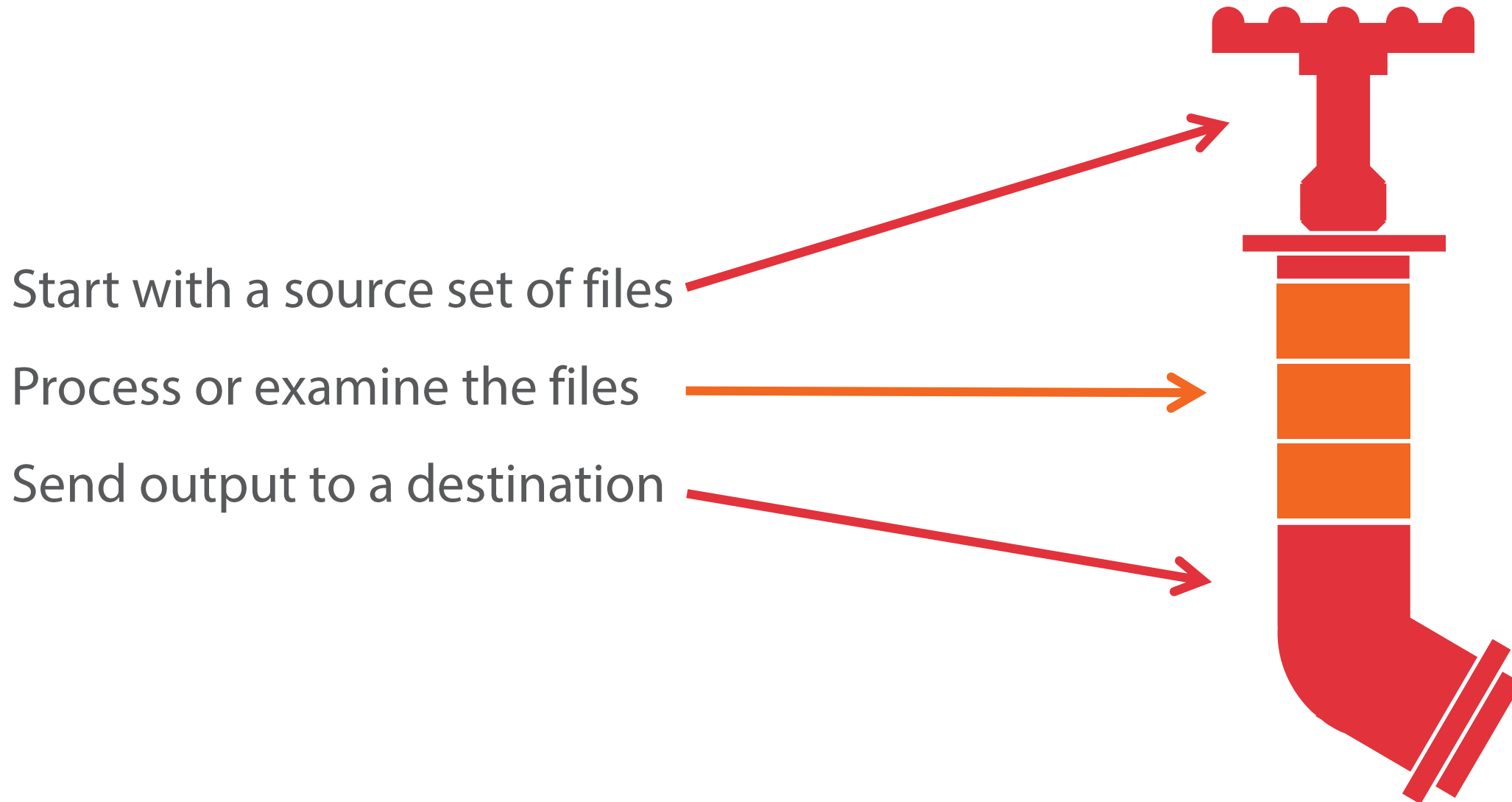
4 Things You Need to Know About Gulp



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Gulp Passes Files Through a Stream



Only 4 Simple APIs



1. `gulp.task`
2. `gulp.src`
3. `gulp.dest`
4. `gulp.watch`



4 Things You Need to Know About Gulp



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1. gulp.task

```
gulp.task('js', function() {  
  return gulp  
    .src('./src/**/*.js')  
    .pipe(concat('all.js'))  
    .pipe(uglify())  
    .pipe(gulp.dest('./build/'));  
});
```

1. gulp.task (name [, dep], fn)

Registers a task name with a function

Optionally declare dependencies

```
gulp.task('js', ['jscs', 'jshint'], function() {  
    return gulp  
        .src('./src/**/*.js')  
        .pipe(concat('all.js'))  
        .pipe(uglify())  
        .pipe(gulp.dest('./build/'));  
});
```

1. gulp.task (name [, dep], fn)

Tasks jshint and jscs both run first, then task js runs

Dependency tasks run in parallel, not in sequence

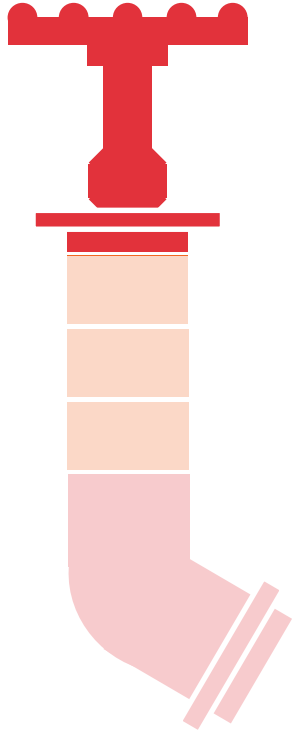


Use `gulp.task` When Making New Tasks

Tests and Lint Code

Optimize Files

Serve Your App



2. gulp.src

```
gulp.task('js', ['jscs', 'jshint'], function() {  
    return gulp  
        .src('./src/**/*.js')  
        .pipe(concat('all.js'))  
        .pipe(uglify())  
        .pipe(gulp.dest('./build/'));  
});
```

2. gulp.src (glob [, options])

Takes a file system glob (set of files)

Emits files that match

Optionally specify options to apply to the glob

2. gulp.src (glob [, options])

options.base

Defines how much of the path to retain

Defaults to everything before the glob

```
gulp.task('min1', function() {  
  return gulp  
    .src('./src/**/*.js', {base: './src/'})  
    .pipe(uglify())  
    .pipe(gulp.dest('./build/'));  
});
```

Writes ./src/app/admin/admin.js
to ./build/app/admin/admin.js

```
gulp.task('min2', function() {  
  return gulp  
    .src('./src/**/*.js')  
    .pipe(uglify())  
    .pipe(gulp.dest('./build/'));  
});
```

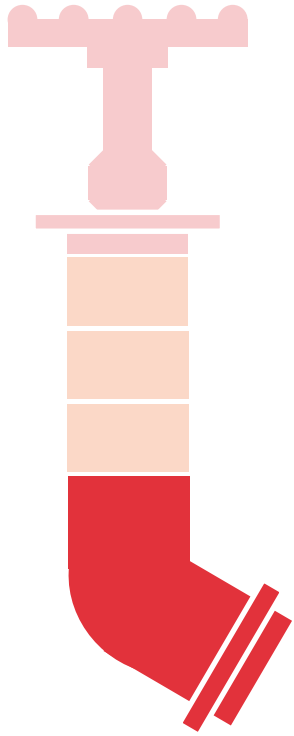
Same result,
since base defaults to ./src/

Use `gulp.src` to Stream Files to be ...

Linted or Tested

Optimized

Modified



3. gulp.dest

```
gulp.task('js', ['jscs', 'jshint'], function() {  
    return gulp  
        .src('./src/**/*.js')  
        .pipe(concat('all.js'))  
        .pipe(uglify())  
        .pipe(gulp.dest('./build/'));  
});
```

3. gulp.dest (folder [, options])

Piped files are written to the file system

Optionally specify options to apply to the output folder

(cwd or mode for permissions)

Use gulp.dest to...

Write Files

Write to destination
different from source

Write to same file or
new file

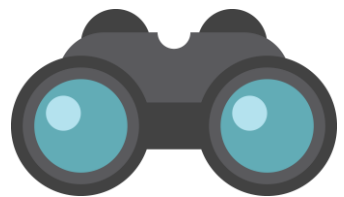
4. gulp.watch

```
gulp.task('lint-watcher', function() {  
  gulp.watch('./src/**/*.js', [  
    'jshint',  
    'jscs'  
  ]);  
});
```

4. gulp.watch (glob [, options], tasks)

Run one or more tasks when a file matched by the glob changes

Array of task names

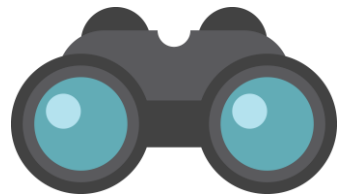


```
gulp.task('lint-watcher', function() {  
  gulp.watch('./src/**/*.less', function(event) {  
    console.log('watched event ' + event.type +  
      ' for ' + event.path);  
  });  
});
```

4. gulp.watch (glob [, options], cb)

Run a callback function when a file matched by the glob changes

Callback is passed **event** object with **type** and **path**



Use `gulp.watch` When Making Code Changes

Tests Run

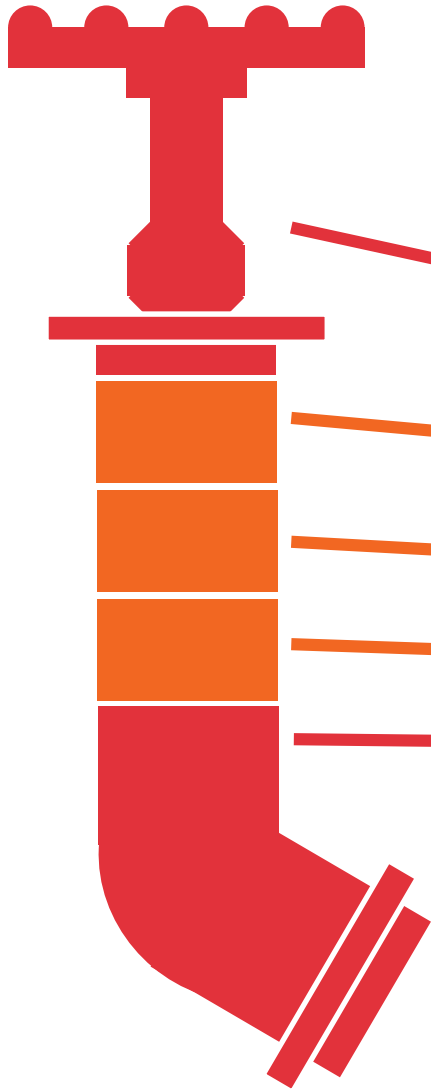
Code Lints

Compile to CSS

4

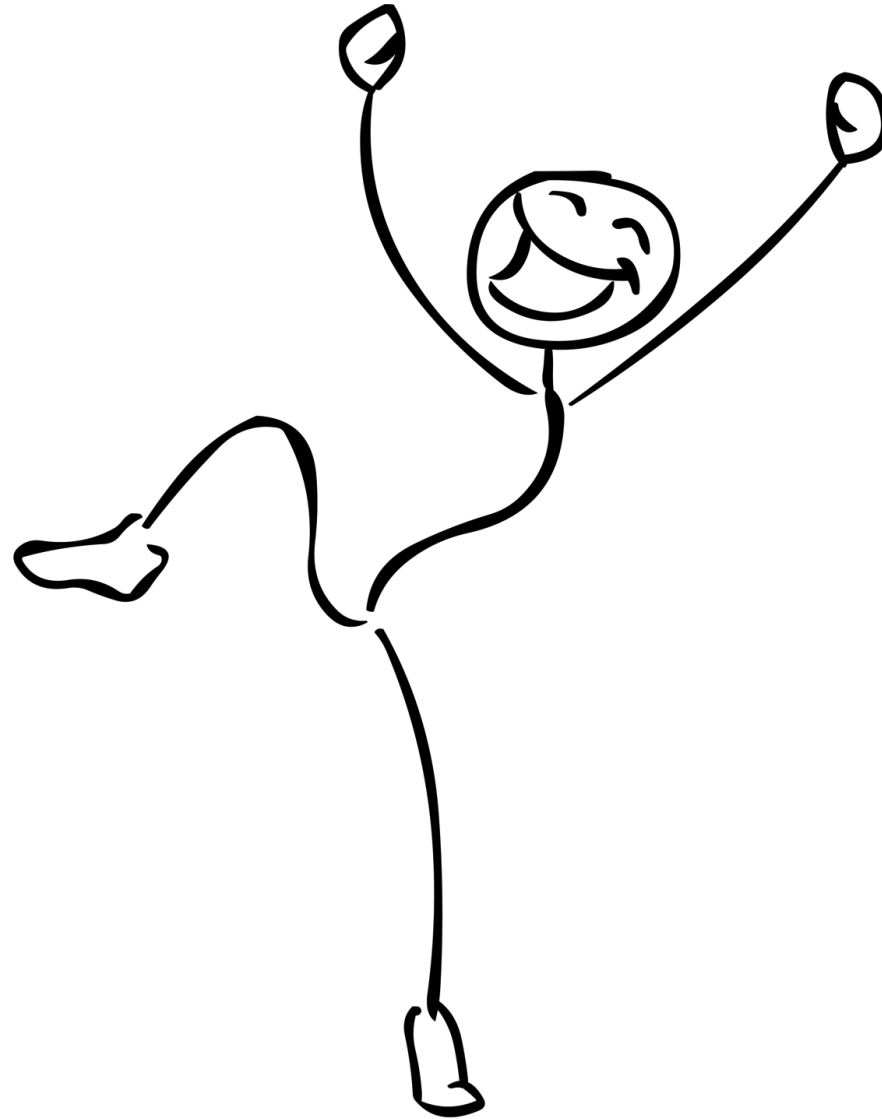
Gulp APIs

Example of a Gulp Stream



```
gulp.task('js', function() {  
  return gulp  
    .src('./src/**/*.js')  
    .pipe(jshint());  
    .pipe(concat('all.js'))  
    .pipe(uglify())  
    .pipe(gulp.dest('./build/'));  
});
```

Now You're a Gulp Expert!



Recap

<code>gulp.task</code>	Define a task
<code>gulp.src</code>	Read files
<code>gulp.dest</code>	Write the files
<code>gulp.watch</code>	Watch the files

