### The Value of Gulp as a JavaScript Task Runner



John Papa @john\_papa| www.johnpapa.net

### Why Use a Task Runner?



# Repeating the Same Process Gets Old

### Preparing JavaScript/HTML/CSS for Production



Minify

Concat

**Vendor Prefixes** 

Less to CSS Compilation

Vendor and Custom Code

Injecting Files into HTML

**Cache Busting** 

Angular Template Cache

**Testing** 

Code Analysis

### **Automate Tasks**

**Code Quality** 

Tests

**Build Pipeline** 

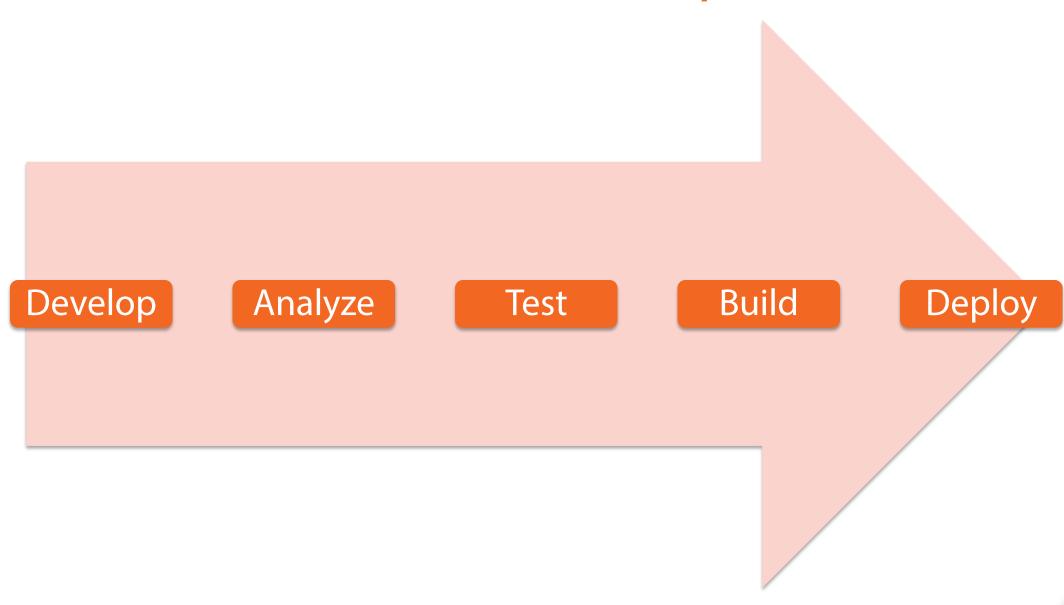
### What's in it for You?

Improve Quality

**Deliver Faster** 

Repeatable and Consistent

### **Automated Build Pipeline**



### Work Smarter, not Harder



JavaScript Task Runners



http://gruntjs.com

http://gulpjs.com

### How Grunt and Gulp Differ



- Configuration over code
- File based
- 3900+ plugins



- Code over configuration
- Stream based
- 1100+ plugins
- Use node more readily

More Readable and Easier to Debug

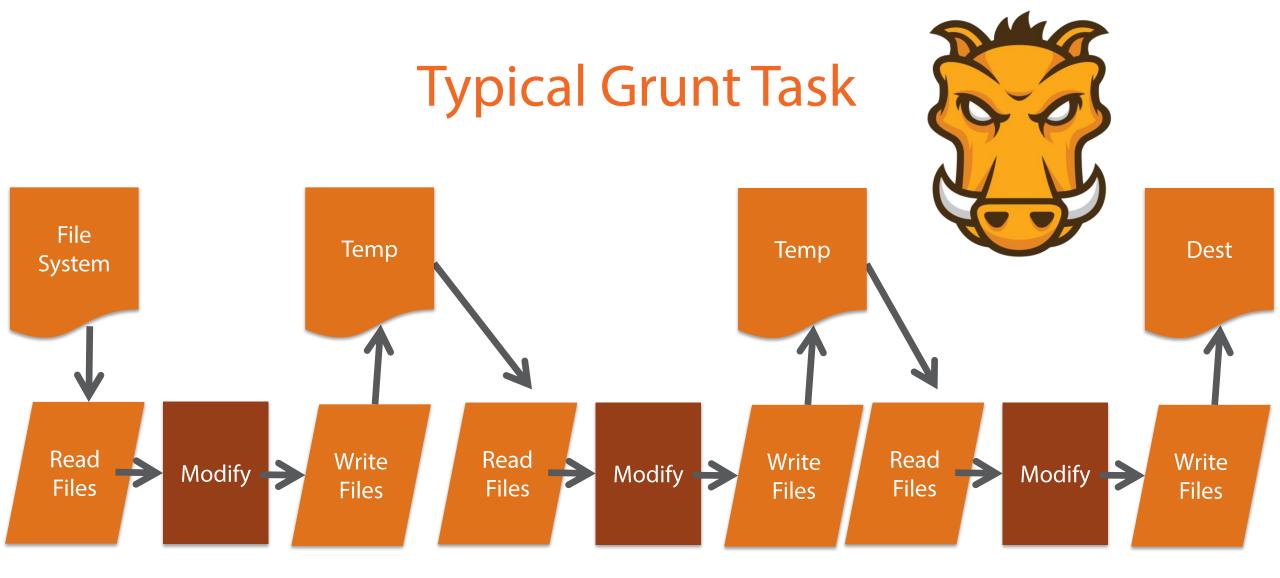
### How Would You Create this Workflow?

Get files

Modify them

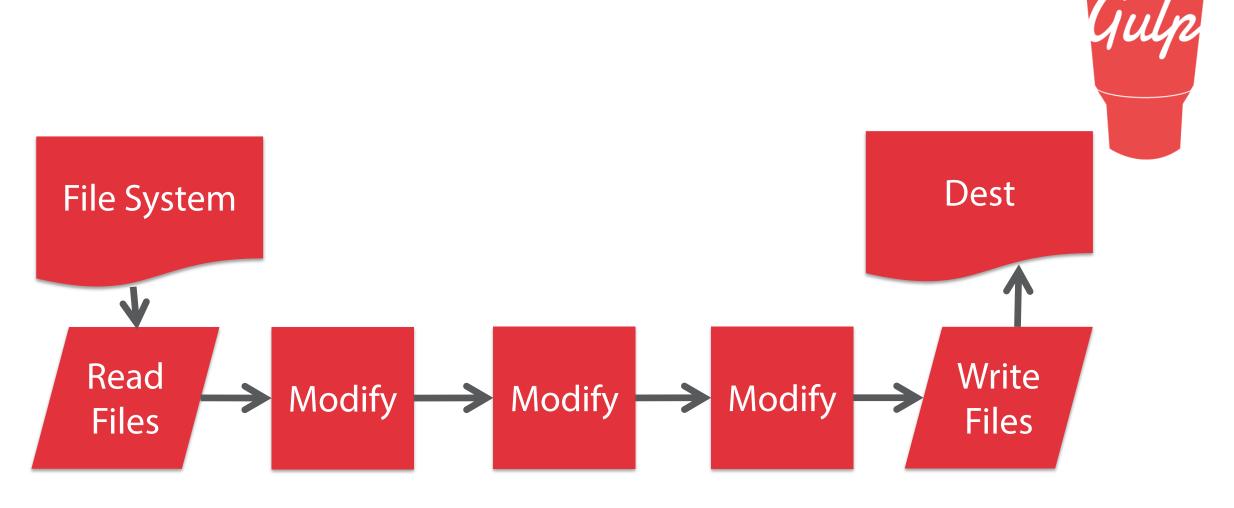
Make new ones





Read, Process, Write ... Repeat

### Typical Gulp Task



# Gruntfile.js

- Tasks and targets
- Configuration
- JSON

```
jshint: {
    dev: {
        src: ['Gruntfile.js','<%= pkg.webapp %>/**/*.js'],
        options: {jshintrc: 'jshintrc.json'}
},
concat: {
    options: {separator: ';'},
    dist: {
        src: ['<%= pkg.temp %>**/*.min.js'],
        dest: '<%= pkg.dest %>/<%= pkg.name %>.min.js'
},
uglify: {
    build: {
        files: [{
                expand: true,
                cwd: '<%= pkg.webapp %>',
                src: ['**/*.js'],
                dest: '<%= pkg.temp %>',
                ext: '.min.js'
            }]
```



- Tasks
- Code
- Read the flow

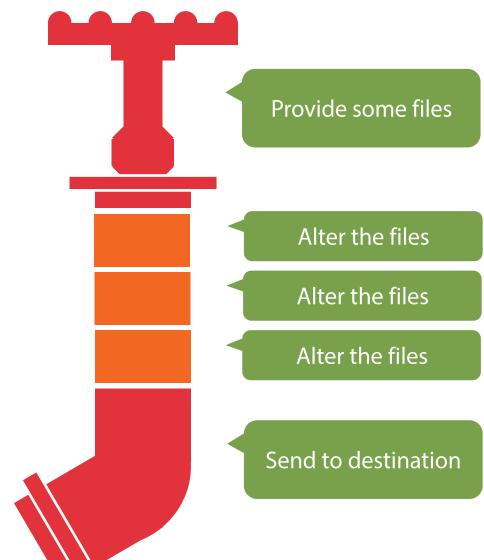
### Gulp Feels More Natural for Developers

- Code over configuration
- Stream based
- Use node more readily
- Terse
- Easier to debug
- Easier to read and write



## Gulp Streams in Action





### Gulp: Streamline Your Tasks



Consistent analysis, test, and build pipeline

Reduces complexity

Makes running the pipeline trivial

Integrates into CI