

Integrating Code with External Tools via Tasks



John Papa

@john_papa | www.johnpapa.net

Concepts



Leverages existing task runners and tools

Connecting to tasks with tasks.json

Babel, TypeScript, JSHint

Adding problems to the warnings/errors list

Detecting Gulp (and grunt and jake)

Not Another Task Runner!

Leverage existing task runners and tools



TypeScript

BABEL

Task Commands



> Run Task



> Terminate Task



> Configure Task Runner



Toggle Output

TypeScript Compiler Task

```
{  
  "version": "0.1.0",  
  // Assumes that tsc has been installed using npm install -g typescript  
  "command": "tsc",  
  // The command is a shell script  
  "isShellCommand": true,  
  // Show the output window only if unrecognized errors occur.  
  "showOutput": "silent",  
  "args": ["-p", "./src/client/", "--watch"],  
  // use the standard tsc problem matcher to find compile problems  
  // in the output.  
  "problemMatcher": "$tsc"  
}
```

EXPLORE

WORKING FILES

CODEPLAY

.settings

launch.json

tasks.json

.tmp

bower_components

build

node_modules

report

src

client

server

utils

app.js

data.js

favicon.ico

jsconfig.json

routes.js

typings

.bowerrc

.gitignore

.jscsrc

.jshintrc

.travis.yml

bower.json

tasks.json .settings

tasks.json

```
1 {
2   "version": "0.1.0",
3   "command": "gulp",
4   "isShellCommand": true,
5   "args": [
6     "--no-color"
7   ],
8   "tasks": [
9     {
10      "taskName": "build",
11      "args": [],
12      "isBuildCommand": true,
13      "problemMatcher": [
14        "$jshint-stylish"
15      ]
16    },
17    {
18      "taskName": "serve-dev-debug",
19      "args": [
20        "serve-dev",
21        "--debug-brk"
22      ],
23      "suppressTaskName": true,
24      "problemMatcher": [
25        "$jshint-stylish"
26      ]
27    },
28    {
29      "taskName": "test",
30      "args": [],
```

Output

Task output

```
index.html.
[15:07:14] Finished 'wiredep' after 910 ms
[15:07:14] Starting 'inject'...
[15:07:14] Wire up css into the html,
after files are ready
[15:07:14] gulp-inject 1 files into
index.html.
[15:07:14] Finished 'inject' after 5.67 ms
[15:07:14] Starting 'serve-dev'...
[15:07:14] Finished 'serve-dev' after 57 ms
[15:07:14] [nodemon] v1.4.0
[15:07:14] [nodemon] to restart at any
time, enter `rs`
[15:07:14] [nodemon] watching:
/Users/john/_git/pluralsight-vscode-samples
/codeplay/src/server/**/*.js
[15:07:14] [nodemon] starting `node
--debug-brk=5858 ./src/server/app.js`
[15:07:14] *** nodemon started
[15:07:14] Starting BrowserSync on port
8001
Debugger listening on port 5858
[hottowel] [info] Proxying:
http://localhost:8001
[hottowel] Access URLs:
-----
Local: http://localhost:3000
External: http://192.168.0.28:3000
-----
UI: http://localhost:3001
```

Running task indicator

Keep an Eye on Running Tasks

Watch the spinning indicator in the status bar

Tasks



Leverages existing task runners and tools

Connecting to tasks with tasks.json

Babel, TypeScript, JSHint

Adding problems to the warnings/errors list

Detecting Gulp (and grunt and jake)

Debugging your task code