

Task Runners

- Configure the tasks once, and rerun it automatically as many times as needed
- NPM scripts written in package.json to execute tasks
- Several task runners out there: Grunt, Gulp, Cake, Brunch, Broccoli
- Build systems for the web

JavaScript Task Runners

Grunt

Configuration over Code



Gulp

Code over Configuration





Web Tools: Task Runners: Grunt

Jogesh K. Muppala



THE DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
計算機科學及工程學系



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File Globbing Patterns

- Grunt uses filename expansion (globbing)
 - * matches any number of characters, but not /
 - ? Matches a single character, but not /
 - ** matches any number of characters, including /, as long as it's the only thing in a path part
 - {} allows for comma-separated list of “or” expressions
 - ! At the beginning of a pattern will negate the match



Web Tools: Task Runners: Gulp

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Gulp Streams

- `gulp.src()`: function that takes file globs and creates a stream of objects that represent the files
- `pipe()`: Allows the stream to be piped through a function
- `gulp.dest()`: specifies the destination of the changed files

