nodemon Restart on file change

CONCEPTS

nodemon is a restart loop: it runs your command, waits for a watched file to change, kills the process and starts it again.

Start run command
↓ app runs
Watch files by ext/path
↓ file saved
Debounce --delay
↓ signal
Restart same command

Without --exec nodemon runs node (or the mapped runner for the script's extension, e.g. python for .py).

Defaults: watches the current directory for js, mjs, json and coffee; ignores .git and node_modules.

RUNNING

nodemon *<script.js>*
Run script, restart on changes

nodemon
Run main or scripts.start of package.json

nodemon *<script.js> <arg1> <arg2>*
Pass arguments to the script

nodemon *<script.js>* **-- --port 3000**
Stop nodemon parsing; pass flags on

nodemon --inspect *<script.js>*
Restart with the Node debugger

nodemon --exec "*<cmd>***"**
Run any command instead of node

nodemon -x python *<app.py>*
Run a Python script

nodemon -x "npx ts-node" *<app.ts>*
Run TypeScript through ts-node

nodemon -C *<script.js>*
Start only after the first change

nodemon --cwd *<dir> <script.js>*
Run from another directory

RUNNING (cont.)

nodemon -I *<script.js>*
Hand stdin straight to the app

nodemon --exitcrash *<script.js>*
Exit if the app crashes

WATCHING

nodemon -w *<dir> <script.js>*
Watch a directory or file

nodemon -w *<a>* **-w** *<b> <script.js>*
Watch several paths

nodemon -e js,json,html *<script.js>*
Watch these extensions

nodemon -i *<path>*
Ignore a file or directory

nodemon -i "*.test.js" *<script.js>*
Ignore a glob (quote it)

nodemon -i "docs/"** *<script.js>*
Ignore a whole tree

nodemon -d *<seconds> <script.js>*
Debounce restarts

nodemon -L *<script.js>*
Poll for changes (Docker, network drives)

Quote globs, or the shell expands them before nodemon sees them.

CONTROL

rs
Restart manually (type, then Enter)

Ctrl+C
Quit nodemon and the app

nodemon -V *<script.js>*
Show which file caused a restart

nodemon --dump
Print the effective configuration

nodemon --help options
List all options

A clean exit prints 'clean exit - waiting for changes'; a crash waits for the next change too.

CONFIGURATION

nodemon.json
Per-project config next to the code

nodemonConfig in package.json
Same keys, inside package.json

nodemon --config *<file>*
Use another config file

$HOME/nodemon.json
Global defaults for all projects

Common config keys

Key	Value	Matches
watch	array of paths	-w
ext	"js,json"	-e
ignore	array of globs	-i
exec	command string	-x
delay	milliseconds	-d
verbose	true / false	-V
legacyWatch	true / false	-L
env	object of variables	(config only)
execMap	extension to runner	(config only)
events	event to shell command	(config only)

Precedence: CLI arguments beat the local config, which beats the global one.

Config strings may use {{pwd}} and {{filename}}.

RECIPES

Project nodemon.json

```
{
  "watch": ["src"],
  "ext": "ts,json",
  "ignore": ["src/**/*.spec.ts"],
  "exec": "ts-node src/index.ts",
  "delay": 500,
  "env": { "NODE_ENV":
"development" }
}
```

Run a different language

```
nodemon --exec python3 app.py

# or map extensions in
nodemon.json
{ "execMap": { "py": "python3",
"rb": "ruby" } }
```

Run a build or test on change

```
nodemon -w src -e js --exec "npm
test"
nodemon -w src -e ts --exec "npm
run build"
```