watch()

Allows watching globs and running a task when a change occurs. Tasks are handled uniformly with the rest of the task system.

Usage

```
const { watch } = require('gulp');
watch(['input/*.js', '!input/something.js'], function(cb) {
    // body omitted
    cb();
});
```

Signature

## watch(globs, [options], [task])

Parameters

parameter type note

globs string (required) array Globs to watch on the file system.

options object Detailed in Options below.

task function A task function or composed task - generated by series()and parallel().

Returns

An instance of chokidar for fine-grained control over your watch setup.

Errors

When a non-string or array with any non-strings is passed as globs, throws an error with the message, "Non-string provided as watch path".

When a string or array is passed as task, throws an error with the message, "watch task has to be a function (optionally generated by using gulp.parallel or gulp.series)".

Options

name	type default	note
ignoreInitial	booleantrue	If false, the task is called during instantiation as file paths are discovered. Use to trigger the task during startup.  Note: This option is passed to chokidarbut is defaulted to true instead of false.
delay	number200	The millisecond delay between a file change and task execution. Allows for waiting on many changes before executing a task, e.g. find-and-replace on many files.
queue	booleantrue	When true and the task is already running, any file changes will queue a single task execution. Keeps long running tasks from overlapping.
events	string [ 'add', 'change' array 'unlink' ]	The events being watched to trigger task execution. Can be 'add', 'addDir', 'change', 'unlink', 'unlinkDir', 'ready', 'and/or 'error'. Additionally 'all' is available, which represents all events other than 'ready' and 'error'. This option is passed directly to chokidar.
persistent	booleantrue	If false, the watcher will not keep the Node process running. Disabling this option is not recommended. This option is passed directly to chokidar.

name	type default	note
ignored	array string RegExp function	Defines globs to be ignored. If a function is provided, it will be called twice per path - once with just the path, then with the path and the fs.Stats object of that file.
followSymlinks	booleantrue	This option is passed directly to chokidar. When true, changes to both symbolic links and the linked files trigger events. If false, only changes to the symbolic links trigger events. This option is passed directly to chokidar.
cwd	string	The directory that will be combined with any relative path to form an absolute path. Is ignored for absolute paths. Use to avoid combining globswith path.join(). This option is passed directly to chokidar.
disableGlobbing	booleanfalse	If true, all globs are treated as literal path names, even if they have special characters.  This option is passed directly to chokidar.  When false, the watcher will
usePolling	booleanfalse	use fs.watch() (or fsevents on Mac) for watching. If true, use fs.watchFile()polling instead - needed for successfully watching files over a network or other non-standard situations. Overrides the useFsEventsdefault.  This option is passed directly to chokidar.
interval	number 100	Combine with usePolling: true. Interval of file system polling.  This option is passed directly to chokidar.
binaryInterval	number300	Combine with usePolling: true. Interval of file system polling for binary files.  This option is passed directly to chokidar.  When true, uses fsevents for watching if available. If
useFsEvents	booleantrue	explicitly set to true, supersedes the usePolling option. If set to false, automatically sets usePolling to true.  This option is passed directly to chokidar.
alwaysStat	booleanfalse	If true, always calls fs.stat() on changed files - will slow down file watcher. The fs.Stat object is only available if you are using the chokidar instance directly.  This option is passed directly to chokidar.
depth	number	Indicates how many nested levels of directories will be watched.  This option is passed directly to chokidar.
awaitWriteFinish	booleanfalse	Do not use this option, use delayinstead.  This option is passed directly to chokidar.  Set to true to watch files that don't have read
ignorePermissionErrorsbooleanfalse		permissions. Then, if watching fails due to EPERM or EACCES errors, they will be skipped silently. <i>This option is passed directly to chokidar.</i> Only active if useFsEvents and usePolling are false. Automatically filters out artifacts that occur from
atomic	number100	"atomic writes" by some editors. If a file is re-added within the specified milliseconds of being deleted, a change event - instead of unlink then add - will be emitted.
Chalcidar instance		This option is passed directly to chokidar.

## Chokidar instance

The watch() method returns the underlying instance of chokidar, providing fine-grained control over your watch setup. Most commonly used to register individual event handlers that provide

the path or stats of the changed files.

When using the chokidar instance directly, you will not have access to the task system integrations, including async completion, queueing, and delay.

```
const { watch } = require('qulp'):
const watcher = watch(['input/*.js']);
watcher.on('change', function(path, stats) {
 console.log(`File ${path} was changed`);
});
watcher.on('add', function(path, stats) {
 console.log('File ${path} was added');
});
watcher.on('unlink', function(path, stats) {
 console.log(`File ${path} was removed`);
});
watcher.close():
watcher.on(eventName, eventHandler)
Registers eventHandler functions to be called when the specified event occurs.
 parameter
                type note
                      The events that may be watched
 eventName
                      are 'add', 'addDir', 'change', 'unlink', 'unlinkDir', 'ready', 'error', or 'all'.
eventHandlerfunction decided when the specified event occurs. Arguments
                      detailed in the table below.
argument type note
          The path of the file that changed. If the cwd option was set, the path will be made relative by removing the cwd.
   path
          object An fs.Stat object, but could be undefined. If the alwaysStatoption was set to true, stats will always be provided.
  stats
watcher.close()
Shuts down the file watcher, Once shut down, no more events will be emitted.
watcher.add(globs)
Adds additional globs to an already-running watcher instance.
parameter type note
          string The additional globs to be watched.
  globs
           array
watcher.unwatch(globs)
Removes globs that are being watched, while the watcher continues with the remaining paths.
parameter type note
          string The globs to be removed.
  alobs
           arrav
```