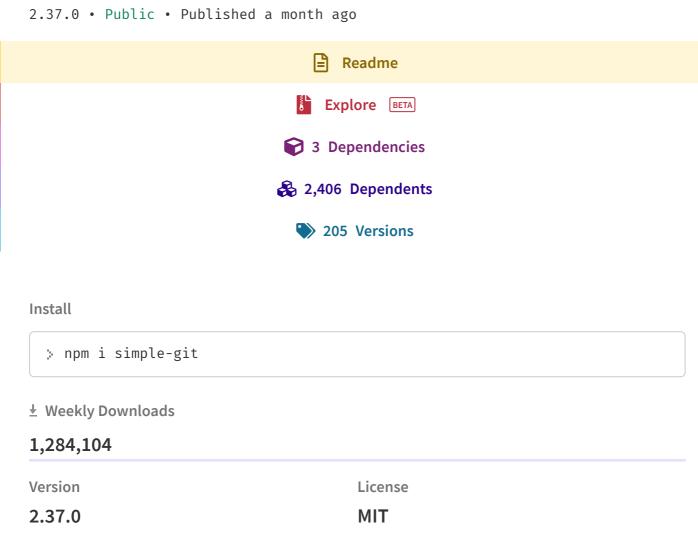


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simple-git Is



Version License
2.37.0 MIT

Unpacked Size Total Files
380 kB 262

Issues Pull Requests
35 1

Homepage

𝚱 github.com/steveukx/git-js#readme

Repository

github.com/steveukx/git-js

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Simple Git

npm v2.37.0 build passing

A lightweight interface for running git commands in any node.js application.

Installation

Use your favourite package manager:

- npm: npm install simple-git
- yarn: yarn add simple-git

System Dependencies

Requires git to be installed and that it can be called using the command git.

Usage

Include into your JavaScript app using:

```
// require the library, main export is a function
const simpleGit = require('simple-git');
const git = simpleGit();
```

Include in a TypeScript app using:

```
// Import `SimpleGit` types and the default function exported from `simple
import simpleGit, {SimpleGit} from 'simple-git';
const git: SimpleGit = simpleGit();

// prior to v2.6.0 required importing from `simple-git/promise`
// this import is still available but is now deprecated
import gitP, {SimpleGit} from 'simple-git/promise';
const git: SimpleGit = gitP();
```

Configuration

Configure each simple-git instance with a properties object passed to the main simpleGit function:

```
import simpleGit, { SimpleGit, SimpleGitOptions } from 'simple-git';

const options: Partial<SimpleGitOptions> = {
    baseDir: process.cwd(),
    binary: 'git',
    maxConcurrentProcesses: 6,
};

// when setting all options in a single object
const git: SimpleGit = simpleGit(options);

// or split out the baseDir, supported for backward compatibility
const git: SimpleGit = simpleGit('/some/path', { binary: 'git' });
```

The first argument can be either a string (representing the working directory for git commands to run in), SimpleGitOptions object or undefined, the second parameter is an optional SimpleGitOptions object.

All configuration properties are optional, the default values are shown in the example above.

Per-command Configuration

To prefix the commands run by simple-git with custom configuration not saved in the git config (ie: using the -c command) supply a config option to the instance builder:

```
// configure the instance with a custom configuration property
const git: SimpleGit = simpleGit('/some/path', { config: ['http.proxy=some

// any command executed will be prefixed with this config

// runs: git -c http.proxy=someproxy pull
await git.pull();
```

Configuring Plugins

- Error Detection Customise the detection of errors from the underlying git process.
- Progress Events Receive progress events as git works through long-running processes.
- Timeout Automatically kill the wrapped git process after a rolling timeout.

Using task promises

Each task in the API returns the simpleGit instance for chaining together multiple tasks, and each step in the chain is also a Promise that can be await ed in an async function or returned in a Promise chain.

```
const simpleGit = require('simple-git');
```

```
const git = simpleGit();

// chain together tasks to await final result
await git.init().addRemote('origin', '...remote.git');

// or await each step individually
await git.init();
await git.addRemote('origin', '...remote.git')
```

Catching errors in async code

To catch errors in async code, either wrap the whole chain in a try/catch:

```
const git = simpleGit()
try {
    await git.init();
    await git.addRemote(name, repoUrl);
}
catch (e) { /* handle all errors here */ }
```

or catch individual steps to permit the main chain to carry on executing rather than jumping to the final catch on the first error:

```
const git = simpleGit()
try {
    await git.init().catch(ignoreError);
    await git.addRemote(name, repoUrl);
}
catch (e) { /* handle all errors here */ }
function ignoreError () {}
```

Using task callbacks

In addition to returning promise method can be called with a trailing callback argument

to handle the result of the task

```
const simpleGit = require('simple-git');
const git = simpleGit();
git.init(onInit).addRemote('origin', 'git@github.com:steveukx/git-js.git',

function onInit (err, initResult) { }
function onRemoteAdd (err, addRemoteResult) { }
```

If any of the steps in the chain result in an error, all pending steps will be cancelled, see the **parallel tasks** section for more information on how to run tasks in parallel rather than in series.

Task Responses

Whether using a trailing callback or a Promise, tasks either return the raw string or Buffer response from the git binary, or where possible a parsed interpretation of the response.

For type details of the response for each of the tasks, please see the **TypeScript definitions**.

API

API	What it does
<pre>.add([fileA,], handlerFn)</pre>	adds one or more files to be under source control
<pre>.addAnnotatedTag(tagName, tagMessage, handlerFn)</pre>	adds an annotated tag to the head of the current branch
<pre>.addTag(name, handlerFn)</pre>	adds a lightweight tag to the head of the current branch
<pre>.catFile(options[, handlerFn])</pre>	generate cat-file detail, options should be an array of strings as supported arguments to the cat-file command

API	What it does	
<pre>.checkIgnore([filepath,], handlerFn)</pre>	checks if filepath excluded by .gitignore rules	
.clearQueue()	immediately clears the queue of pending tasks (note: any command currently in progress will still call its completion callback)	
<pre>.commit(message, handlerFn)</pre>	commits changes in the current working directory with the supplied message where the message can be either a single string or array of strings to be passed as separate arguments (the git command line interface converts these to be separated by double line breaks)	
<pre>.commit(message, [fileA,], options, handlerFn)</pre>	commits changes on the named files with the supplied message, when supplied, the optional options object can contain any other parameters to pass to the commit command, setting the value of the property to be a string will add name=value to the command string, setting any other type of value will result in just the key from the object being passed (ie: just name), an example of setting the author is below	
.customBinary(gitPath)	sets the command to use to reference git, allows for using a git binary not available on the path environment variable	
.cwd(workingDirectory)	Sets the current working directory for all commands after this step in the chain	
<pre>.diff(options, handlerFn)</pre>	get the diff of the current repo compared to the last commit with a set of options supplied as a string	
.diff(handlerFn)	get the diff for all file in the current repo compared to the last commit	
	gets a summary of the diff for files in the repo,	

API	What it does	
.diffSummary(handlerFn)	uses the git diffstat format to calculate changes. Handler is called with a nullable error object and an instance of the DiffSummary	
<pre>.diffSummary(options, handlerFn)</pre>	includes options in the call to diff stat options and returns a DiffSummary	
.env(name, value)	Set environment variables to be passed to the spawned child processes, see usage in detail below.	
.exec(handlerFn)	calls a simple function in the current step	
<pre>.fetch([options,] handlerFn)</pre>	update the local working copy database with changes from the default remote repo and branch, when supplied the options argument can be a standard options object either an array of string commands as supported by the git fetch.	
<pre>.fetch(remote, branch, handlerFn)</pre>	update the local working copy database with changes from a remote repo	
.fetch(handlerFn)	update the local working copy database with changes from the default remote repo and branch	
.log([options], handlerFn)	list commits between options.from and options.to tags or branch (if not specified will show all history). Additionally you can provide options.file, which is the path to a file in your repository. Then only this file will be considered. options.symmetric allows you to specify whether you want to use symmetric revision range (To be compatible, by default, its value is true). For any other set of options, supply options as an array of strings to be appended to the git log command. To use a custom splitter in the log format, set	

API	What it does
	options.splitter to be the string the log should be split on. Set options.multiLine to true to include a multi-line body in the output format. Options can also be supplied as a standard options object for adding custom properties supported by the git log command.
.outputHandler(handlerFn)	attaches a handler that will be called with the name of the command being run and the stdout and stderr readable streams created by the child process running that command
.raw(args[, handlerFn])	Execute any arbitrary array of commands supported by the underlying git binary. When the git process returns a non-zero signal on exit and it printed something to stderr, the commmand will be treated as an error, otherwise treated as a success.
<pre>.rebase([options,] handlerFn)</pre>	Rebases the repo, options should be supplied as an array of string parameters supported by the git rebase command, or an object of options (see details below for option formats).
<pre>.revert(commit [, options [, handlerFn]])</pre>	reverts one or more commits in the working copy. The commit can be any regular commitish value (hash, name or offset such as HEAD~2) or a range of commits (eg: master~5master~2). When supplied the options argument contain any options accepted by git-revert.
<pre>.rm([fileA,], handlerFn)</pre>	removes any number of files from source control
<pre>.rmKeepLocal([fileA,], handlerFn)</pre>	removes files from source control but leaves them on disk

API	What it does
<pre>.stash([options,][handlerFn])</pre>	Stash the working directory, optional first argument can be an array of string arguments or options object to pass to the git stash command.
<pre>.stashList([options,] [handlerFn])</pre>	Retrieves the stash list, optional first argument can be an object specifying options.splitter to override the default value of ;;;;, alternatively options can be a set of arguments as supported by the git stash list command.
<pre>.tag(args[], handlerFn)</pre>	Runs any supported git tag commands with arguments passed as an array of strings.
<pre>.tags([options,] handlerFn)</pre>	list all tags, use the optional options object to set any options allows by the git tag command. Tags will be sorted by semantic version number by default, for git versions 2.7 and above, use thesort option to set a custom sort.
<pre>.show([options], handlerFn)</pre>	Show various types of objects, for example the file content at a certain commit. options is the single value string or array of string commands you want to run

git apply

- .applyPatch(patch, [options]) applies a single string patch (as generated by git diff), optionally configured with the supplied options to set any arguments supported by the apply command. Returns the unmodified string response from stdout of the git binary.
- .applyPatch(patches, [options]) applies an array of string patches (as generated by git diff), optionally configured with the supplied options to set any arguments supported by the apply command. Returns the unmodified string response from stdout of the git binary.

git branch

- .branch([options]) uses the supplied options to run any arguments supported by the branch command. Either returns a BranchSummaryResult instance when listing branches, or a BranchSingleDeleteResult type object when the options included -d, -D or --delete which cause it to delete a named branch rather than list existing branches.
- .branchLocal() gets a list of local branches as a BranchSummaryResult instance
- .deleteLocalBranch(branchName) deletes a local branch treats a failed attempt as an error
- .deleteLocalBranch(branchName, forceDelete) deletes a local branch, optionally explicitly setting forceDelete to true treats a failed attempt as an error
- .deleteLocalBranches(branchNames) deletes multiple local branches
- .deleteLocalBranches(branchNames, forceDelete) deletes multiple local branches, optionally explicitly setting forceDelete to true

git clean

- .clean(mode) clean the working tree. Mode should be "n" dry run or "f" force
- .clean(cleanSwitches [,options]) set cleanSwitches to a string containing any number of the supported single character options, optionally with a standard options object

git checkout

- .checkout(checkoutWhat [, options]) checks out the supplied tag, revision or branch when supplied as a string, additional arguments supported by git checkout can be supplied as an options object/array.
- .checkout(options) uses the checks out the supplied options object/array to check out.
- .checkoutBranch(branchName, startPoint) checks out a new branch from the supplied start point.
- .checkoutLocalBranch(branchName) checks out a new local branch

git clone

• .clone(repoPath, [localPath, [options]]) clone a remote repo at repoPath to a local directory at localPath, optionally with a standard options object of additional arguments to include between git clone and the trailing repo local arguments

- .clone(repoPath, [options]) clone a remote repo at repoPath to a directory in the current working directory with the same name as the repo
- mirror(repoPath, [localPath, [options]]) behaves the same as the .clone interface with the --mirror flag enabled.

git config

- .addConfig(key, value, append = false) add a local configuration property, when append is set to true the configuration setting is appended to rather than set in the local config.
- .listConfig() reads the current configuration and returns a ConfigListSummary

git hash-object

• .hashObject(filePath, write = false) computes the object ID value for the contents of the named file (which can be outside of the work tree), optionally writing the resulting value to the object database.

git init

- .init(bare [, options]) initialize a repository using the boolean bare parameter to intialise a bare repository. Any number of other arguments supported by git init can be supplied as an options object/array.
- .init([options]) initialize a repository using any arguments supported by git init supplied as an options object/array.

git merge

- merge(options) runs a merge using any configuration options supported by git merge. Conflicts during the merge result in an error response, the response is an instance of MergeSummary whether it was an error or success. When successful, the MergeSummary has all detail from a the PullSummary along with summary detail for the merge. When the merge failed, the MergeSummary contains summary detail for why the merge failed and which files prevented the merge.
- .mergeFromTo(from, to [, options]) merge from one branch to another, similar
 to .merge but with the from and to supplied as strings separately to any

additional the options.

git mv

- .mv(from, to) rename or move a single file at from to to
- .mv(from, to) move all files in the from array to the to directory

git pull

- .pull([options]) pulls all updates from the default tracked remote, any arguments supported by git pull can be supplied as an options object/array.
- .pull(remote, branch[, options]) pulls all updates from the specified remote branch (eg 'origin'/'master') along with any custom options object/array

git push

- .push([options]) pushes to a named remote/branch using any supported options
 from the git push command. Note that simple-git enforces the use of --verbose -porcelain options in order to parse the response. You don't need to supply these
 options.
- .push(remote, branch[, options]) pushes to a named remote/branch, supports additional options from the git push command.
- .pushTags(remote[, options]) pushes local tags to a named remote (equivalent to using .push([remote, '--tags']))

git remote

- .addRemote(name, repo, [options]) adds a new named remote to be tracked as name at the path repo, optionally with any supported options for the git add call.
- .getRemotes([verbose]) gets a list of the named remotes, supply the optional verbose option as true to include the URLs and purpose of each ref
- .listRemote([options]) lists remote repositories there are so many optional arguments in the underlying git ls-remote call, just supply any you want to use as the optional options eg: git.listRemote(['--heads', '--tags'], console.log)

- .remote([options]) runs a git remote command with any number of options
- .removeRemote(name) removes the named remote

git reset

- .reset(resetMode, [resetOptions]) resets the repository, sets the reset mode to one of the supported types (use a constant from the exported ResetMode enum, or a string equivalent: mixed, soft, hard, merge, keep). Any number of other arguments supported by git reset can be supplied as an options object/array.
- .reset(resetOptions) resets the repository with the supplied options
- .reset() resets the repository in soft mode.

git rev-parse / repo properties

- .revparse([options]) sends the supplied options to git rev-parse and returns the string response from git .
- .checkIsRepo() gets whether the current working directory is a descendent of a git repository.
- .checkIsRepo('bare') gets whether the current working directory is within a bare git repo (see either git clone --bare or git init --bare).
- .checkIsRepo('root') gets whether the current working directory is the root directory for a repo (sub-directories will return false).

git status

.status([options]) gets the status of the current repo, resulting in a StatusResult.
 Additional arguments supported by git status can be supplied as an options object/array.

git submodule

- .subModule(options) Run a git submodule command with on or more arguments passed in as an options array or object
- .submoduleAdd(repo, path) Adds a new sub module
- submoduleInit([options] Initialises sub modules, the optional options argument can

be used to pass extra options to the git submodule init command.

• .submoduleUpdate(subModuleName, [options]) Updates sub modules, can be called with a sub module name and options, just the options or with no arguments

How to Specify Options

Where the task accepts custom options (eg: pull or commit), these can be supplied as an object, the keys of which will all be merged as trailing arguments in the command string, or as a simple array of strings.

Options as an Object

When the value of the property in the options object is a string, that name value pair will be included in the command string as name=value. For example:

```
// results in 'git pull origin master --no-rebase'
git().pull('origin', 'master', {'--no-rebase': null})

// results in 'git pull origin master --rebase=true'
git().pull('origin', 'master', {'--rebase': 'true'})
```

Options as an Array

Options can also be supplied as an array of strings to be merged into the task's commands in the same way as when an object is used:

```
//
git.pull('origin', 'master', ['--no-rebase'])
```

Release History

Major release 2.x changes the way the queue of tasks are handled to use promises internally and makes available the .then and .catch methods for integrating with promise consumers or async await.

TypeScript is used by default for all new code, allowing for auto-generated type definitions and a phased re-write of the library rather than a big-bang.

For a per-release overview of changes, see the **changelog**.

2.x Upgrade Notes

When upgrading to release 2.x from 1.x, see the changelog for the release 2.0.0

Recently Deprecated / Altered APIs

- 2.25.0 depends on Node.js version 12 or above, for use in lower versions of node.js ensure you are also importing the necessary polyfills from core-js, see Legacy Node Versions this change has been reverted in 2.30.0 and will be postponed until version 3.x.
- 2.13.0 .push now returns a PushResult parsed representation of the response.
- 2.11.0 treats tasks chained together as atomic, where any failure in the chain prevents
 later tasks from executing and tasks called from the root git instance as the origin
 of a new chain, and able to be run in parallel without failures impacting one anther.
 Prior to this version, tasks called on the root git instance would be cancelled when
 another one failed.
- 2.7.0 deprecates use of .silent() in favour of using the debug library see Enable Logging for further details.
- 2.6.0 introduced .then and .catch as a way to chain a promise onto the current step of the chain. Importing from simple-git/promise instead of just simple-git is no longer required and is actively discouraged.

For the full history see the **changelog**;

Concurrent / Parallel Requests

When the methods of simple-git are chained together, they create an execution chain that will run in series, useful for when the tasks themselves are order-dependent, eg:

```
const git = simpleGit();
git.init().addRemote('origin', 'https://some-repo.git').fetch();
```

Each task requires that the one before it has been run successfully before it is called, any errors in a step of the chain should prevent later steps from being attempted.

When the methods of simple-git are called on the root instance (ie: git = simpleGit()) rather than chained off another task, it starts a new chain and will not be affected failures in tasks already being run. Useful for when the tasks are independent of each other, eg:

```
const git = simpleGit();
const results = await Promise.all([
    git.raw('rev-parse', '--show-cdup').catch(swallow),
    git.raw('rev-parse', '--show-prefix').catch(swallow),
]);
function swallow (err) { return null }
```

Each simple-git instance limits the number of spawned child processes that can be run simultaneously and manages the queue of pending tasks for you. Configure this value by passing an options object to the simpleGit function, eg:

```
const git = simpleGit({ maxConcurrentProcesses: 10 });
```

Treating tasks called on the root instance as the start of separate chains is a change to the behaviour of simple-git and was added in version 2.11.0.

Complex Requests

When no suitable wrapper exists in the interface for creating a request, it is possible to run a command directly using git.raw([...], handler). The array of commands are passed directly to the git binary:

```
const git = require('simple-git');
const path = '/path/to/repo';
const commands = [ 'config', '--global', 'advice.pushNonFastForward', 'fal

// using an array of commands
git(path).raw(commands, (err, result) => {

    // err is null unless this command failed
    // result is the raw output of this command

});

// using a var-args of strings and awaiting rather than using the callback
const result = await git(path).raw(...commands);
```

Authentication

The easiest way to supply a username / password to the remote host is to include it in the URL, for example:

```
const USER = 'something';
const PASS = 'somewhere';
const REPO = 'github.com/username/private-repo';

const git = require('simple-git');
const remote = `https://${USER}:${PASS}@${REPO}`;

git().silent(true)
   .clone(remote)
   .then(() => console.log('finished'))
   .catch((err) => console.error('failed: ', err));
```

Be sure to enable silent mode to prevent fatal errors from being logged to stdout.

Environment Variables

Pass one or more environment variables to the child processes spawned by simple-git with the .env method which supports passing either an object of name=value pairs or setting a single variable at a time:

```
const GIT_SSH_COMMAND = "ssh -o UserKnownHostsFile=/dev/null -o StrictHost

const git = require('simple-git');

git()
    .env('GIT_SSH_COMMAND', GIT_SSH_COMMAND)
    .status((err, status) => { /* */ })

git().env({ ...process.env, GIT_SSH_COMMAND })
    .status()
    .then(status => { })
    .catch(err => {});
```

Note - when passing environment variables into the child process, these will replace the standard process.env variables, the example above creates a new object based on process.env but with the GIT_SSH_COMMAND property added.

TypeScript

To import with TypeScript:

```
import simpleGit, { SimpleGit, StatusResult } from 'simple-git';

const git: SimpleGit = simpleGit();

const status: StatusResult = await git.status();
```

Promise and async compatible

For each task run, the return is the same SimpleGit instance for ease of building a series of tasks that all run sequentially and are treated as atomic (ie: if any step fails, the

later tasks are not attempted).

To work with promises (either directly or as part of async/await), simply call the function as before:

```
const simpleGit = require('simple-git');
const git = simpleGit();

// async / await
const status = await git.status();

// promise
git.status().then(result => {...});
```

Exception Handling

When the git process exits with a non-zero status (or in some cases like merge the git process exits with a successful zero code but there are conflicts in the merge) the task will reject with a GitError when there is no available parser to handle the error or a GitResponseError for when there is.

See the err property of the callback:

```
git.merge((err, mergeSummary) => {
   if (err.git) {
     mergeSummary = err.git; // the failed mergeSummary
   }
})
```

Catch errors with try/catch in async code:

```
try {
  const mergeSummary = await git.merge();
  console.log(`Merged ${ mergeSummary.merges.length } files`);
}
catch (err) {
```

```
// err.message - the string summary of the error
// err.stack - some stack trace detail
// err.git - where a parser was able to run, this is the parsed content
console.error(`Merge resulted in ${ err.git.conflicts.length } conflicts
}
```

Catch errors with a .catch on the promise:

With typed errors available in TypeScript

```
import simpleGit, { MergeSummary, GitResponseError } from 'simple-git';
try {
   const mergeSummary = await simpleGit().merge();
   console.log(`Merged ${ mergeSummary.merges.length } files`);
}
catch (err) {
   // err.message - the string summary of the error
   // err.stack - some stack trace detail
   // err.git - where a parser was able to run, this is the parsed content
   const mergeSummary: MergeSummary = (err as GitResponseError<MergeSummary
   const conflicts = mergeSummary?.conflicts || [];
   console.error(`Merge resulted in ${ conflicts.length } conflicts`);
}</pre>
```

Troubleshooting / FAQ

Enable logging

This library uses **debug** to handle logging, to enable logging, use either the environment variable:

```
"DEBUG=simple-git" node ./your-app.js
```

Or explicitly enable logging using the debug library itself:

```
require('debug').enable('simple-git');
```

Enable Verbose Logging

If the regular logs aren't sufficient to find the source of your issue, enable one or more of the following for a more complete look at what the library is doing:

- DEBUG=simple-git:task:* adds debug output for each task being run through the library
- DEBUG=simple-git:task:add:* adds debug output for specific git commands, just replace the add with the command you need to investigate. To output multiple just add them both to the environment variable eg: DEBUG=simple-git:task:add:*,simplegit:task:commit:*
- DEBUG=simple-git:output:* logs the raw data received from the git process on both stdOut and stdErr
- DEBUG=simple-git,simple-git:* logs everything

Every command returns ENOENT error message

There are a few potential reasons:

- git isn't available as a binary for the user running the main node process, custom paths to the binary can be used with the .customBinary(...) api option.
- the working directory passed in to the main simple-git function isn't accessible, check it is read/write accessible by the user running the node process. This library uses @kwsites/file-exists to validate the working directory exists, to output its logs add @kwsites/file-exists to your DEBUG environment variable. eg:

Log format fails

The properties of git log are fetched using the --pretty=format argument which supports different tokens depending on the version of git - for example the %D token used to show the refs was added in git 2.2.3, for any version before that please ensure you are supplying your own format object with properties supported by the version of git you are using.

For more details of the supported tokens, please see the **official git log documentation**

Log response properties are out of order

The properties of git.log are fetched using the character sequence \grave{o} as a delimiter. If your commit messages use this sequence, supply a custom splitter in the options, for example: git.log({ splitter: ' \square '})

Pull / Diff / Merge summary responses don't recognise any files

- Enable verbose logs with the environment variable DEBUG=simple-git:task:*,simple-git:output:*
- Check the output (for example: simple-git:output:diff:1 [stdOut] 1 file changed, 1 insertion(+))
- Check the stdOut output is the same as you would expect to see when running the command directly in terminal
- Check the language used in the response is english locale

In some cases git will show progress messages or additional detail on error states in the output for stdErr that will help debug your issue, these messages are also included in the verbose log.

Legacy Node Versions

From v3.x, simple-git will drop support for node.js version 10 or below, to use in a lower version of node will result in errors such as:

- Object.fromEntries is not a function
- Object.entries is not a function
- message.flatMap is not a function

To resolve these issues, either upgrade to a newer version of node.js or ensure you are

Examples

using a pathspec to limit the scope of the task

If the simple-git api doesn't explicitly limit the scope of the task being run (ie: git.add() requires the files to be added, but git.status() will run against the entire repo), add a pathspec to the command using trailing options:

```
const git = simpleGit();
const wholeRepoStatus = await git.status();
const subDirStatusUsingOptArray = await git.status(['--', 'sub-dir']);
const subDirStatusUsingOptObject = await git.status({'--': null, 'sub-dir'})
```

async await

```
async function status (workingDir) {
  const git = require('simple-git');

  let statusSummary = null;
  try {
    statusSummary = await git(workingDir).status();
  }
  catch (e) {
    // handle the error
  }

  return statusSummary;
}

// using the async function
  status(__dirname + '/some-repo').then(status => console.log(status));
```

Initialise a git repo if necessary

```
const simpleGit = require('simple-git');
const git = simpleGit(__dirname);
```

```
git.checkIsRepo()
    .then(isRepo => !isRepo && initialiseRepo(git))
    .then(() => git.fetch());

function initialiseRepo (git) {
    return git.init()
        .then(() => git.addRemote('origin', 'https://some.git.repo'))
}
```

Update repo and get a list of tags

```
require('simple-git')(__dirname + '/some-repo')
    .pull()
    .tags((err, tags) => console.log("Latest available tag: %s", tags.lates

// update repo and when there are changes, restart the app
require('simple-git')()
    .pull((err, update) => {
        if(update && update.summary.changes) {
            require('child_process').exec('npm restart');
        }
      });
```

Starting a new repo

```
require('simple-git')()
    .init()
    .add('./*')
    .commit("first commit!")
    .addRemote('origin', 'https://github.com/user/repo.git')
    .push('origin', 'master');
```

push with -u

```
require('simple-git')()
   .add('./*')
   .commit("first commit!")
```

```
.addRemote('origin', 'some-repo-url')
.push(['-u', 'origin', 'master'], () => console.log('done'));
```

Piping to the console for long running tasks

```
require('simple-git')()
    .outputHandler((bin, stdout, stderr, args) => {
        stdout.pipe(process.stdout);
        stderr.pipe(process.stderr);

        // the name of the binary used, defaults to git, see customBinary for assert.equal(bin, 'git');

        // all other arguments passed to the binary assert.deepEqual(args, ['checkout', 'https://github.com/user/repo.gi })
        .checkout('https://github.com/user/repo.git');
```

Update repo and print messages when there are changes, restart the app

```
require('simple-git')()
    .exec(() => console.log('Starting pull...'))
    .pull((err, update) => {
        if(update && update.summary.changes) {
            require('child_process').exec('npm restart');
        }
    })
    .exec(() => console.log('pull done.'));
```

Get a full commits list, and then only between 0.11.0 and 0.12.0 tags

```
require('simple-git')()
  .log((err, log) => console.log(log))
  .log('0.11.0', '0.12.0', (err, log) => console.log(log));
```

Set the local configuration for author, then author for an individual commit

```
require('simple-git')()
    .addConfig('user.name', 'Some One')
    .addConfig('user.email', 'some@one.com')
    .commit('committed as "Some One"', 'file-one')
    .commit('committed as "Another Person"', 'file-two', { '--author': '"An
```

Get remote repositories

```
require('simple-git')()
  .listRemote(['--get-url'], (err, data) => {
    if (!err) {
       console.log('Remote url for repository at ' + __dirname + ':');
       console.log(data);
    }
  });
```

Keywords

git source control vcs



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