

[Marketplace](#) / [Actions](#) / Changed Files

GitHub Action

Changed Files

v35.5.6

Latest version

Use latest version

UBUNTU

macOS

MAC OS

WINDOWS

USED BY

2905

code quality

A

CI

passing

Update release version.

passing

all contributors

19

changed-files

Retrieve all changed files and directories relative to the target branch or the last remote commit returning a **relative path** from the project root.

Features

- Fast execution (0-10 seconds on average).
- Easy to debug.
- Scales to large repositories.
- Supports Git submodules.
- Escaped JSON output which can be used to run matrix jobs based on changed files.
- List changed directories.
- Restrict the max depth of changed directories.
- Write outputs to files at a specified location for further processing.
- Monorepos (Fetches a fixed number of commits).
- Supports all platforms (Linux, MacOS, Windows).
- [GitHub-hosted runners](#) support

- [GitHub Enterprise Server](#) support.
- [self-hosted runners](#) support.
- List all files and directories that have changed:
 - Between the current pull request branch and the last commit on the target branch.
 - Between the last commit and the current pushed change.
 - Between the last remote branch commit and the current HEAD.
- Restrict change detection to a subset of files and directories:
 - Boolean output indicating that certain files have been changed.
 - Using [Glob pattern](#) matching.
 - Brace expansion.

Usage

NOTE:

- **IMPORTANT:** For `push` events you need to include `fetch-depth: 0` **OR** `fetch-depth: 2` depending on your use case.
- For monorepos where pulling all the branch history might not be desired, you can omit `fetch-depth` for `pull_request` events.
- For files located in a sub-directory ensure that the pattern specified contains `**/` (globstar) to match any preceding directories or explicitly pass the full path relative to the project root. See: [#314](#).
- All multiline inputs should not use double or single quotes since the value is already a string separated by a newline character. See [Examples](#) for more information.
- Ensure that `persist-credentials` is set to `true` when configuring `actions/checkout` if `fetch-depth` isn't set to `0`.

`name: CI`

`on:`

```
# Compare the preceeding commit -> to the current commit of the main branch.
# (Note: To compare changes between the current commit to the last pushed remote
push:
```

```
  branches:
    - main
```

```
# Compare the last commit of main -> to the current commit of a PR branch.
# (Note: To compare changes between the current commit to the last pushed remote
pull_request:
```

```
  branches:
    - main
```

`jobs:`

```
  build:
    runs-on: ubuntu-latest # windows-latest | macos-latest
```

```

name: Test changed-files
steps:
  - uses: actions/checkout@v3
    with:
      fetch-depth: 0 # OR "2" -> To retrieve the preceding commit.

# Example 1
- name: Get changed files
  id: changed-files
  uses: tj-actions/changed-files@v35

- name: List all changed files
  run: |
    for file in ${ steps.changed-files.outputs.all_changed_files }; do
      echo "$file was changed"
    done

# Example 2
- name: Get changed files in the docs folder
  id: changed-files-specific
  uses: tj-actions/changed-files@v35
  with:
    files: docs/*.{js,html} # Alternatively using: `docs/**` or `docs`

- name: Run step if any file(s) in the docs folder change
  if: steps.changed-files-specific.outputs.any_changed == 'true'
  run: |
    echo "One or more files in the docs folder has changed."
    echo "List all the files that have changed: ${ steps.changed-files-spec

# Example 3
- name: Get changed js files excluding the docs folder
  id: changed-files-excluded
  uses: tj-actions/changed-files@v35
  with:
    files: |
      **/*.js
    files_ignore: docs/** # Alternatively using: `docs`

- name: Run step if any other js file(s) change
  if: steps.changed-files-excluded.outputs.any_changed == 'true'
  run: |
    echo "One or more js files not in the doc folder has changed."
    echo "List all the files that have changed: ${ steps.changed-files-excl

```

If you feel generous and want to show some extra appreciation:

Support this project with a ★



Useful Acronyms

Acronym	Meaning
A	Added
C	Copied
M	Modified
D	Deleted
R	Renamed
T	Type changed
U	Unmerged
X	Unknown

Outputs

OUTPUT	TYPE	DESCRIPTION
added_files	string	Returns only files that are Added (A).
all_changed_and_modified_files	string	Returns all changed and modified files i.e. <i>a combination of (ACMRDTUX)</i>
all_changed_files	string	Returns all changed files i.e. <i>a combination of all added, copied, modified and renamed files (ACMR)</i>
all_modified_files	string	Returns all changed files i.e. <i>a combination of all added, copied, modified, renamed and deleted files (ACMRD)</i> .
all_old_new_renamed_files	string	Returns only files that are Renamed and list their old and new names. NOTE: This requires setting <code>include_all_old_new_renamed_files</code> to <code>true</code> (R)
any_changed	string	Returns <code>true</code> when any of the filenames provided using the <code>files</code> input has changed. If no <code>files</code> have been specified,an empty string <code>''</code> is

OUTPUT	TYPE	DESCRIPTION
		returned. i.e. <i>using a combination of all added, copied, modified and renamed files (ACMR)</i> .
any_deleted	string	Returns <code>true</code> when any of the filenames provided using the <code>files</code> input has been deleted. If no <code>files</code> have been specified,an empty string <code>''</code> is returned. (D)
any_modified	string	Returns <code>true</code> when any of the filenames provided using the <code>files</code> input has been modified. If no <code>files</code> have been specified,an empty string <code>''</code> is returned. i.e. <i>using a combination of all added, copied, modified, renamed, and deleted files (ACMRD)</i> .
copied_files	string	Returns only files that are Copied (C).
deleted_files	string	Returns only files that are Deleted (D).
modified_files	string	Returns only files that are Modified (M).
only_changed	string	Returns <code>true</code> when only files provided using the <code>files</code> input has changed. If no <code>files</code> have been specified,an empty string <code>''</code> is returned. i.e. <i>using a combination of all added, copied, modified and renamed files (ACMR)</i> .
only_deleted	string	Returns <code>true</code> when only files provided using the <code>files</code> input has been deleted. If no <code>files</code> have been specified,an empty string <code>''</code> is returned. (D)
only_modified	string	Returns <code>true</code> when only files provided using the <code>files</code> input has been modified. If no <code>files</code> have been specified,an empty string <code>''</code> is returned. (ACMRD).

OUTPUT	TYPE	DESCRIPTION
other_changed_files	string	Returns all other changed files not listed in the files input i.e. <i>using a combination of all added, copied, modified and renamed files (ACMR).</i>
other_deleted_files	string	Returns all other deleted files not listed in the files input i.e. <i>a combination of all deleted files (D)</i>
other_modified_files	string	Returns all other modified files not listed in the files input i.e. <i>a combination of all added, copied, modified, and deleted files (ACMRD)</i>
renamed_files	string	Returns only files that are Renamed (R).
type_changed_files	string	Returns only files that have their file type changed (T).
unknown_files	string	Returns only files that are Unknown (X).
unmerged_files	string	Returns only files that are Unmerged (U).

Inputs

INPUT	TYPE	REQUIRED	DEFAULT	
base_sha	string	false		Spec comr used
diff_relative	string	false		Exclu curre and s to it. NO spec via the

INPUT	TYPE	REQUIRED	DEFAULT	
dir_names	string	false	"false"	Output directory names returned from the root of the repository
dir_names_exclude_root	string	false	"false"	Exclude repository root from directory set
dir_names_max_depth	string	false		Maximum depth to output, e.g. max 2 results
fetch_depth	string	false	"50"	Depth of history to resolve. NOT to resolve history
files	string	false		File extensions detected in the change of file(s) in repository. NOT pattern include
files_from_source_file	string	false		Source population file
files_ignore	string	false		Ignore file(s) Multi

INPUT	TYPE	REQUIRED	DEFAULT	
				shou quote
files_ignore_from_source_file	string	false		Sour popu file
files_ignore_separator	string	false	"\n"	Sepa file input
files_separator	string	false	"\n"	Sepa file input
include_all_old_new_renamed_files	string	false	"false"	Inclu all_ outpu gene #501
json	string	false	"false"	Outp a JS which be us
json_raw_format	string	false	"false"	Outp jq raw mean be surre spec will n
match_directories	string	false	"true"	Indic matc
old_new_files_separator	string	false	" "	Split new renai
old_new_separator	string	false	", "	Split new filen
output_dir	string	false	".github/outputs"	Direc

INPUT	TYPE	REQUIRED	DEFAULT	
path	string	false	". "	Spec \$GIT to loc
quotepath	string	false	"true"	Use matc files comp verba false
separator	string	false	" "	Split string
sha	string	false		Spec SHA for c
since	string	false		Get c whos times giver time.
since_last_remote_commit	string	false	"false"	Use remc base to the on th requ previ comr for push
until	string	false		Get c whos times giver time.
write_output_files	string	false	"false"	Write .git defau

Examples

- ▶ Get all changed files in the current branch
- ▶ Get all changed files and using a comma separator
- ▶ Get all changed files and list all added files
- ▶ Get all changed files and optionally run a step if a file was modified
- ▶ Get all changed files using a list of files
- ▶ Get all changed files using a list of files and take action based on the changes
- ▶ Get all changed files using a source file or list of file(s) to populate to files input
- ▶ Get changed files using a source file or list of file(s) to populate to files input and optionally specify more files
- ▶ Get all changed files using a different SHA
- ▶ Get all changed files using a different base SHA
- ▶ Get all changed files between the previous tag and the current tag
- ▶ Get all changed files for a repository located in a different path
- ▶ Get all changed files with non ašćí characters i.e (Filename in other languages)
- ▶ Get all changed files using the last successful commit of the base branch
- ▶ Get all changed files but only return the directory names
- ▶ Get all changed files and return JSON formatted outputs
- ▶ Get all changed files by commits pushed in the past

Real world example

```

> ☒ Checkout 1s

  ☒ Run changed-files with defaults 0s

  1 Prepare all required actions
  2 ▶ Run ./
  7 ▶ Run bash $GITHUB_ACTION_PATH/sourcefiles.sh
 13 ▶ changed-files-from-source-file
 16 ▶ Run bash $GITHUB_ACTION_PATH/entrypoint.sh
 28 ▶ changed-files

  ☒ Show output 0s

  1 ▶ Run echo '{
 21 {
 22   "added_files": "",
 23   "copied_files": "",
 24   "deleted_files": "",
 25   "modified_files": ".github/workflows/test.yml README.md action.yml entrypoint.sh",
 26   "renamed_files": "",
 27   "type_changed_files": "",
 28   "unmerged_files": "",
 29   "unknown_files": "",
 30   "all_changed_and_modified_files": ".github/workflows/test.yml README.md action.yml entrypoint.sh",
 31   "all_modified_files": ".github/workflows/test.yml README.md action.yml entrypoint.sh",
 32   "any_changed": "",
 33   "only_changed": "",
 34   "other_changed_files": "",
 35   "any_deleted": "",
 36   "only_deleted": "",
 37   "other_deleted_files": ""
 38 }

> ☒ List all modified files 0s

```

- Free software: [MIT license](#)

Known Limitation

NOTE: 

- Using characters like `\n`, `%`, `.` and `\r` as separators would be [URL encoded](#)
- Spaces in file names can introduce bugs when using bash loops. See: [#216](#) However, this action will handle spaces in file names, with a recommendation of using a separator to prevent hidden issues.

```

"any_changed": "false",
"only_changed": "false",
"other_changed_files": "entrypoint.sh,test/test new 1.txt,test/test new.txt",
"any_deleted": "false",

```

Migration guide

With the switch from using grep's Extended regex to match files to the natively supported workflow glob pattern matching syntax introduced in [v13](#) you'll need to modify patterns used to match files.

BEFORE

...

- `name:` [Get specific changed files](#)

```
id: changed-files-specific
uses: tj-actions/changed-files@v12.2
with:
  files: |
    \.sh$
    \.(sql|py)$
    ^(mynewfile|custom)
```

AFTER

...

```
- name: Get specific changed files
  id: changed-files-specific
  uses: tj-actions/changed-files@v24
  with:
    files: |
      *.sh
      *.sql
      *.py
      mynewfile
      custom/**
```

Credits

This package was created with [Cookiecutter](#).

- [tj-actions/glob](#)
- [tj-actions/auto-doc](#)
- [tj-actions/verify-changed-files](#)
- [tj-actions/demo](#)
- [tj-actions/demo2](#)
- [tj-actions/demo3](#)
- [tj-actions/release-tagger](#)

Report Bugs

Report bugs at <https://github.com/tj-actions/changed-files/issues>.










































If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your workflow that might be helpful in troubleshooting. (**NOTE:** Ensure that you include full log outputs with debugging enabled)

- Detailed steps to reproduce the bug.


Contributors ✨

Thanks goes to these wonderful people ([emoji key](#)):

 <div>Josh Soref</div> 	 <div>Nick Landers</div> 	 <div>Krasimir Nikolov</div>  	 <div>Ivan Pizhenko</div>  	 <div>talva-tr</div> 	 <div>Ikko Ashimine</div> 	 <div>James</div> 
 <div>James Cheng</div> 	 <div>Masaya Suzuki</div> 	 <div>fagai</div> 	 <div>Constantine Peresykin</div> 	 <div>Mathieu Dupuy</div> 	 <div>Joe Moggridge</div> 	 <div>Charles Santos</div> 
 <div>Kostiantyn Kornienko</div> 	 <div>Logan Pulley</div> 	 <div>Kenji Miyake</div> 	 <div>adonisgarcia</div>  	 <div>Chiel Fernhout</div> 		

This project follows the [all-contributors](#) specification. Contributions of any kind welcome!

Stars

 Star 890

Contributors



Categories

[#Continuous integration](#) [#Code review](#)

Links

 [tj-actions/changed-files](#)

 [Open issues](#) 0

 [Pull requests](#) 0

 [Report abuse](#)

Changed Files is not certified by GitHub. It is provided by a third-party and is governed by separate terms of service, privacy policy, and support documentation.