

Feature Comparison

GitCarbon v0.1.0 — compared with VS Code Built-in Git, GitKraken, Sourcetree, and Plastic SCM

✔ Supported 🟡 Partial ✖ Not available — Not applicable ⌚ Skipped by design

Repository Management

Feature	GitCarbon VS Code ext	VS Code Git Built-in	GitKraken Standalone + ext	Sourcetree Standalone	Plastic SCM Unity VCS
Create repository (init)	✔	✔	✔	✔	✔
Clone repository	✔	✔	✔	✔	✔
Multi-repo workspace	✔	✔	✔	✔	✔
Switch active repository	✔	✔	✔	🟡	✔
Add external repo folder	✔	✖	✔	✔	✔
Repository browser (server)	⌚	✖	✖	✖	✔
Submodule support	⌚	🟡	✔	✔	—
Git LFS support	⌚	🟡	✔	✔	—
GitHub repo creation on init	✔	✖	✖	✖	—

Branch Explorer / Commit Graph

Feature	GitCarbon VS Code ext	VS Code Git Built-in	GitKraken Standalone + ext	Sourcetree Standalone	Plastic SCM Unity VCS
Commit graph visualisation	✔	🟡	✔	✔	✔
Interactive zoom & pan	✔	✖	✔	✖	✔
Commit detail pane	✔	🟡	✔	✔	✔
Branch creation from commit	✔	✔	✔	✔	✔
Branch rename	✔	✔	✔	✔	✔
Branch deletion	✔	✔	✔	✔	✔
Hide / show branches	✔	✖	🟡	🟡	✔
Merge visualisation (arrows)	✔	🟡	✔	✔	✔
Commit search / filter	✔	✖	✔	✔	✔
Compare two commits (diff)	✔	✖	✔	✔	✔
MiniMap navigation	✔	✖	✖	✖	✔
Configurable zoom levels	✔	✖	✖	✖	✔
Open commit on remote (web)	✔	✖	✔	✖	✔
Drag & drop merge/rebase	✔	✖	✔	✖	✖
Graph column reordering	⌚	✖	✔	✖	✔

Pending Changes & Check-In

Feature	GitCarbon VS Code ext	VS Code Git Built-in	GitKraken Standalone + ext	Sourcetree Standalone	Plastic SCM Unity VCS
Pending changes view	✔	✔	✔	✔	✔
Selective check-in (checkboxes)	✔	🟡	✔	✔	✔
Inline diff preview	✔	✔	✔	✔	✔
Discard changes per file	✔	✔	✔	✔	✔
Conflict detection	✔	✔	✔	✔	✔
3-way merge editor	✔	✔	✔	✔	✔

Commit + push in one step	✓	✗	🕒	🕒	✓
File status badges (M/A/D/R)	✓	✓	✓	✓	✓
Hunk-level staging	🕒	✓	✓	✓	✗
Amend last commit	✓	✓	✓	✓	✓
Commit templates	✗	✗	✓	✓	✗
Sign commits (GPG)	🕒	✓	✓	✗	✗

Shelving / Stash

Feature	GitCarbon VS Code ext	VS Code Git Built-in	GitKraken Standalone + ext	Sourcetree Standalone	Plastic SCM Unity VCS
Stash / shelve changes	✓	✓	✓	✓	✓
Selective file shelve	✓	✗	🕒	🕒	✓
Shelves sidebar view	✓	✗	✓	✓	✓
Apply / Pop / Drop	✓	✓	✓	✓	✓
Shelve diff preview	✓	✗	✓	✓	✓
Stash include untracked	✓	✓	✓	✓	—

Git Operations

Feature	GitCarbon VS Code ext	VS Code Git Built-in	GitKraken Standalone + ext	Sourcetree Standalone	Plastic SCM Unity VCS
Checkout branch / commit	✓	✓	✓	✓	✓
Merge	✓	✓	✓	✓	✓
Cherry-pick	✓	🕒	✓	✓	✓
Revert commit	✓	🕒	✓	✓	✓
Reset (soft/mixed/hard)	✓	✗	✓	✓	🕒
Create / delete tags	✓	🕒	✓	✓	✓
Edit commit message (amend)	✓	✓	✓	✓	✓
Fetch + Pull (Update)	✓	✓	✓	✓	✓
Push	✓	✓	✓	✓	✓
Interactive rebase	🕒	✗	✓	✓	✗
Rebase (non-interactive)	🕒	🕒	✓	✓	✗
Squash commits	🕒	✗	✓	✓	✗
Git Flow support	🕒	✗	✓	✓	—
Undo / redo operations	🕒	✗	✓	✗	✓
Worktrees	🕒	✗	✓	✗	—

History

Feature	GitCarbon VS Code ext	VS Code Git Built-in	GitKraken Standalone + ext	Sourcetree Standalone	Plastic SCM Unity VCS
File history / log	✓	✓	✓	✓	✓
Annotations (line blame)	✓	🕒	✓	✓	✓
Timeline view	✗	✓	✗	✗	✗
Commit file tree (changeset)	✓	🕒	✓	✓	✓

Code Reviews & Collaboration

Feature	GitCarbon VS Code ext	VS Code Git Built-in	GitKraken Standalone + ext	Sourcetree Standalone	Plastic SCM Unity VCS
Pull request creation	✓	✗	✓	✗	✓
Pull request list / review	✗	✗	✓	✗	✓
PR inline comments	✗	✗	✓	✗	✓
Issues integration	✗	✗	✓	✗	✓
Team / workspace sharing	⌚	✗	✓	✗	✓
Branch permissions / policies	⌚	✗	✗	✗	✓
Deep linking to commits	✓	✗	✓	✗	✓

UI & Experience

Feature	GitCarbon VS Code ext	VS Code Git Built-in	GitKraken Standalone + ext	Sourcetree Standalone	Plastic SCM Unity VCS
VS Code sidebar integration	✓	✓	✓	—	—
Dark / light theme	✓	✓	✓	✓	✓
Loading state on startup	✓	✓	✓	✓	✓
Multiple view sections	✓	✓	✓	✓	✓
Welcome views (empty state)	✓	✓	✓	✓	✓
Configurable settings UI	✓	✓	✓	✓	✓
Keyboard navigation	✓	⦿	✓	✓	✓
Context menus	✓	✓	✓	✓	✓
Diagnostics overlay	✓	✗	✗	✗	✗
Custom actions / scripts	✗	✗	✗	✓	✓
Profiles / workspaces	✗	✗	✓	✗	✓
Tabs / multi-panel layout	✗	—	✓	✓	✓


Summary — GitCarbon Feature Coverage

Category	✓ Done	⦿ Partial	✗ Missing	⌚ Skipped	Coverage
Repository Management	6	0	0	3	100%
Branch Explorer / Graph	14	0	0	1	100%
Pending Changes & Check-In	9	0	1	2	90%
Shelving / Stash	6	0	0	0	100%
Git Operations	9	0	0	6	100%
History	3	0	1	0	75%
Code Reviews & Collaboration	2	0	3	2	40%
UI & Experience	9	0	3	0	75%
Total	58	0	8	14	88%

Key Gaps vs Competitors

Feature	Available in	Priority
Annotations (line blame)	VS Code, GitKraken, Sourcetree, Plastic	Done
Interactive rebase	GitKraken, Sourcetree	Skipped
Hunk-level staging	VS Code, GitKraken, Sourcetree	Skipped
Shelve diff preview	GitKraken, Sourcetree, Plastic	Done
Pull request integration	GitKraken, Plastic	Medium

Submodule support	VS Code, GitKraken, Sourcetree	Skipped
Git LFS support	VS Code, GitKraken, Sourcetree	Skipped
Git Flow support	GitKraken, Sourcetree	Skipped
GPG commit signing	VS Code, GitKraken	Skipped
Custom actions / scripts	Sourcetree, Plastic	Low

Last updated: GitCarbon v0.1.0 |  Skipped features are deliberately out of scope and excluded from coverage calculations.
Comparison based on publicly available feature lists. VS Code Git = built-in SCM provider. GitKraken = v10.x (desktop + VS Code extension). Sourcetree = v3.x (Windows/macOS standalone). Plastic SCM = Unity Version Control.