

GitHub GitLab And Source Code As Evidence

Source code from platforms like GitHub and GitLab offers a detailed, date-stamped history of development. This guide assists UK litigators, in-house counsel, and investigators in understanding and utilising this digital evidence, covering its anatomy, authentication, and common pitfalls.

e-discovery.uk, Computer Forensics Lab. Published 2026-08-30.
<https://e-discovery.uk/library/github-gitlab-and-source-code-as-evidence>

SOURCECODEEVIDENCE · A GUIDE FOR UK LAWYERS GitHub, GitLab and Source Code as Evidence Commits, Clones and the Development History That Dates Every Line COMPUTER FORENSICS LAB

§ ABOUT THE AUTHOR PREPARED BY COMPUTER FORENSICS LAB E-DISCOVERY TEAM

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Questions and answers

Can git really prove when code was written?

Git asserts it; corroboration proves it: commit dates are local and set table, so reliable dating stacks the server- side anchors: push times, PR and CI records: with clone triangulation and internal-consistency checks. Where those align, the dating is about as strong as digital chronology gets; where a repository stands alone, Example 1 is the caution.

A developer says someone else committed under their name. Possible?

Trivially: the author field is typed, not authenticated: so attribution climbs the ladder: which platform account pushed, from which IPs and devices, whether commits were signed, and whose working pattern the code matches. Signed commits and protected branches close the gap prospectively; forensic ally, the push record usually answers what the author field cannot.

The opponent deleted the repository. Is the history gone?

Rarely: git distributes complete history to every clone: developer machines, forks, CI checkouts, backups: and platforms retain deleted repositories for recovery windows while audit logs record the deletion itself. §8's map is the recovery plan, and the deletion event, dated against the dispute, is frequently worth more than the repository was.

How much code similarity is enough to prove copying?

No percentage answers it: volume of resemblance has innocent explanations (frameworks, generators, AI assistance); the probative class is the fingerprints: shared typos, dead code, arbitrary quirks: joined to provenance showing your version existed first. Example 3's single misspelled comment outweighed thousands of merely similar lines, which is the right intuition to keep.

Our code is commercially sensitive. Must we hand it to the opponent to fight a copying case?

No: the standard resolution is the §7 protocol: designated experts examine both codebases in controlled environments and report findings, with disclosure of the code itself confined or eliminated: confidential it y preserved on both sides while the comparison proceeds. Courts order and endorse such regimes routinely; refusing all exam in at i on while alleging copying is the position that does not survive.

Does AI-generated code change any of this?

It complicates similarity and authorship, not chronology: generated code produces innocent resemblance across unrelated projects (raising the bar to the fingerprint class) and dilutes what "the developer wrote it" means (assist an t involvement is now a standard exam in at i on question): while the dating and integrity disciplines: hash chains, server anchors, triangulation: work unchanged. Expect provenance-of-authorship questions to grow, and keep the corroboration habits that answer them. cflab. u k · e-disc ove r y. u k ©2026 Computer Forensics Lab Ltd ·cflab.uk ·e-discovery.uk ·info@cflab.uk ·+44 (0)20 7164 6915 Page 15 of

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