Repository limits

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Learn about limitations for repositories.

Certain types of repository resources can be quite large, requiring excessive processing on GitHub Enterprise Server. Because of this, limits are set to ensure requests complete in a reasonable amount of time.

Most of the limits below affect both GitHub Enterprise Server and the API.

Text limits 🔗

GitHub displays formatted previews of some files, such as Markdown and Mermaid diagrams. GitHub always attempts to render these previews if the files are small (generally less than 2 MB), but more complex files may time out and either fall back to plain text or not be displayed at all. These files are always available in their raw formats, which are served through `HOSTNAME/user/repo/raw`; for example, `https://HOSTNAME/user/repo/raw/octocat/Spoon-Knife/master/index.html`. Click the **Raw** button to get the raw URL for a file.

Diff limits 🔗

Because diffs can become very large, we impose these limits on diffs for commits, pull requests, and compare views:

- In a pull request, no total diff may exceed *20,000 lines that you can load* or *1 MB* of raw diff data.
- No single file's diff may exceed *20,000 lines that you can load* or *500 KB* of raw diff data. *Four hundred lines* and *20 KB* are automatically loaded for a single file.
- The maximum number of files in a single diff is limited to *300*.
- The maximum number of renderable files (such as images, PDFs, and GeoJSON files) in a single diff is limited to *25*.

Some portions of a limited diff may be displayed, but anything exceeding the limit is not shown.

Commit listings limits 🔗

The compare view and pull requests pages display a list of commits between the `base` and `head` revisions. These lists are limited to **250** commits. If they exceed that limit, a note indicates that additional commits are present (but they're not shown).

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