



Flutter Gold APIs used by Flutter

Current Uses of Gold APIs for flutter/flutter

go/flutter-gold-apis

Updated: 11/15/21

[flutter/flutter Skia Gold Client implementation](#)

Local Testing

- Unauthenticated, no goldctl available
- This use case is for those developing on their own local checkout of flutter/flutter.
- Queries:
 - **[https://flutter-gold.skia.org/json/v2/latestpositivedigest/\[traceID\]](https://flutter-gold.skia.org/json/v2/latestpositivedigest/[traceID])**
 - Retrieve expectation for a given traceID
 - traceID specifies image parameters for the local environment so the right image is retrieved
 - **[https://flutter-gold.skia.org/img/images/\[imageHash\].png](https://flutter-gold.skia.org/img/images/[imageHash].png)**
 - Retrieve image for given test expectation

Pre-Submit Testing

- Authenticated, using goldctl
 - The use case is for staged pull requests in the flutter/flutter repository
 - No direct API Queries
 - Makes use of tryjob[Init, Add]
-

Post-Submit Testing

- Authenticated, using goldctl
 - The use case is for changes that have landed on master
 - No direct API queries
 - Makes use of imgtest[Init, Add] with passfail flag for individual results
-

Other Querying Sources

flutter-gold status check

- Instead of failing individual test shards, a single check on pull requests represents the results from Gold for each commit in pre-submit
 - Logic discussed at length in [#48744](#)
 - Queries:
 - **[https://flutter-gold.skia.org/json/v1/changelist_summary/github/\[PRNumber\]](https://flutter-gold.skia.org/json/v1/changelist_summary/github/[PRNumber])**
 - **Only** when all other checks are completed, this is because several other checks run golden file tests. Waiting for all other checks to finish guarantees that Gold has received all image results.
 - If the last check was not `completed` (there are image changes), will check again every 5 minutes until triage is completed, to avoid overloading the endpoint.
 - Will not check when a pull request is in a draft state
 - If a commit has not been pushed in over 20 days, Gold results will expire.
-

Other Resources

- [Flutter golden file comparators](#) for each of the above conditions
- The [Skia Gold client](#) used by the Flutter golden file comparators
- [Flutter-gold check logic](#)
- [Writing a Golden File Test for flutter/flutter](#)