

[Job Search documentation](https://cloud.google.com/talent-solution/job-search/) (https://cloud.google.com/talent-solution/job-search/)

[Documentation](#)

Histogram

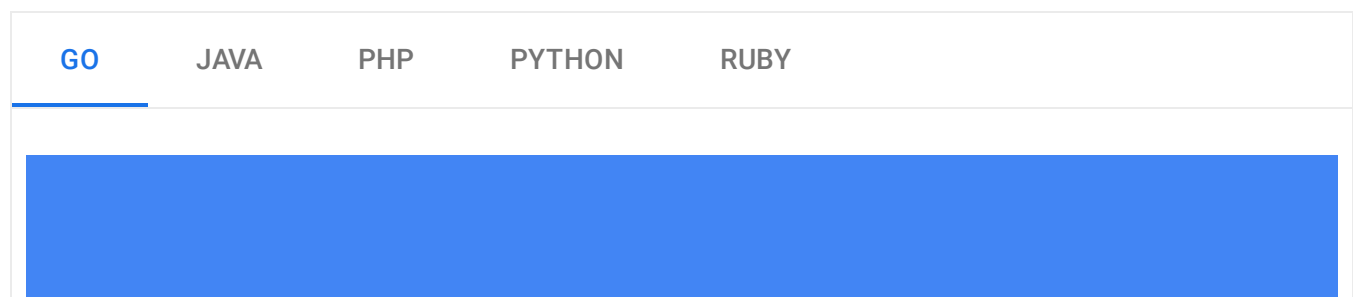
Cloud Talent Solution allows you to get a histogram representation of the number of jobs associated with a given search. A histogram search returns a count of all jobs that match a particular query, broken down by the requested `SearchMode` (https://cloud.google.com/talent-solution/job-search/docs/reference/rest/v4beta1/SearchMode). For example, a histogram search could return the number of jobs per employment type (full-time, part-time, and so on) that exist in Mountain View, CA.

Histograms are generally run in parallel with a search call, using the same `JobQuery` (https://cloud.google.com/talent-solution/job-search/docs/reference/rest/v4beta1/JobQuery) and the same `requestMetadata` (https://cloud.google.com/talent-solution/job-search/docs/reference/rest/v4beta1/RequestMetadata).

The histogram is defined by the `histogramQuery` field, a single string expression. For details on the functions available for histogram queries, see the [histogramQuery documentation](https://cloud.google.com/talent-solution/job-search/docs/reference/rest/v4beta1/HistogramQuery) (https://cloud.google.com/talent-solution/job-search/docs/reference/rest/v4beta1/HistogramQuery).

Retrieving a histogram

The following code sample returns histogram results:



9596979C3431FF123D7CB91712BC357E380AB/JOBS/V4/HOWTO/HISTOGRAM_SEARCH_SAMPLE.GO)

FEEDBACK (#)

```

import (
    "context"
    "fmt"
    "io"

    talent "cloud.google.com/go/talent/apiv4beta1"
    "google.golang.org/api/iterator"
    talentpb "google.golang.org/genproto/googleapis/cloud/talent/v4beta1"
)

// histogramSearch searches for jobs with histogram queries.
func histogramSearch(w io.Writer, projectID, companyID string) error {
    ctx := context.Background()

    // Initialize a jobService client.
    c, err := talent.NewJobClient(ctx)
    if err != nil {
        fmt.Printf("talent.NewJobClient: %v\n", err)
        return err
    }

    // Construct a searchJobs request.
    req := &talentpb.SearchJobsRequest{
        Parent: fmt.Sprintf("projects/%s", projectID),
        // Make sure to set the RequestMetadata the same as the associated
        // search request.
        RequestMetadata: &talentpb.RequestMetadata{
            // Make sure to hash your userId.
            UserId: "HashedUsrID",
            // Make sure to hash the sessionId.
            SessionId: "HashedSessionID",
            // Domain of the website where the search is conducted.
            Domain: "www.googlesample.com",
        },
        HistogramQueries: []*talentpb.HistogramQuery{
            {
                // More info on histogram facets, constants, and b
                // https://godoc.org/google.golang.org/genproto/go
                HistogramQuery: "count(base_compensation, [bucket(
            },
        },
    },

```

```
    }
    if companyID != "" {
        req.JobQuery = &talentpb.JobQuery{
            CompanyNames: []string{fmt.Sprintf("projects/%s/companies/
        }
    }

    it := c.SearchJobs(ctx, req)

    for {
        resp, err := it.Next()
        if err == iterator.Done {
            return nil
        }
        if err != nil {
            fmt.Printf("it.Next: %v\n", err)
            return err
        }
        fmt.Fprintf(w, "Job: %q\n", resp.Job.GetName())
    }
}
```

Relevance thresholding

Histogram requests do not use relevance thresholding. To ensure that the counts are consistent between a histogram search and an identical job search, `disableKeywordMatch` in the job search must be `false`.

Except as otherwise noted, the content of this page is licensed under the [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/) (https://creativecommons.org/licenses/by/4.0/), and code samples are licensed under the [Apache 2.0 License](https://www.apache.org/licenses/LICENSE-2.0) (https://www.apache.org/licenses/LICENSE-2.0). For details, see our [Site Policies](https://developers.google.com/terms/site-policies) (https://developers.google.com/terms/site-policies). Java is a registered trademark of Oracle and/or its affiliates.

Last updated December 3, 2019.