# Google Tasks API (**Labs**)

# Reference

> **Important:** This version of the Google Tasks API is in Labs, and its features might change unexpectedly until it graduates.

This Reference Guide is a detailed technical reference of the collections, resources, methods, and authentication requirements for the Google Tasks API v1.

## Introduction

### Contents and Overview

| Data | Method | **REST URI** relative to `https://www.googleapis.com/tasks/v1` | Access |
|------|--------|----------------------------------------------------------------|--------|
| Task Collection ↳ Task Resource | *tasks.list* | GET  /lists/*tasklist*/tasks | AUTHENTICATED |
| | *tasks.get* | GET  /lists/*tasklist*/tasks/*task* | AUTHENTICATED |
| | *tasks.insert* | POST  /lists/*tasklist*/tasks | AUTHENTICATED |
| | *tasks.update* | PUT  /lists/*tasklist*/tasks/*task* | AUTHENTICATED |
| | *tasks.delete* | DELETE  /lists/*tasklist*/tasks/*task* | AUTHENTICATED |
| | *tasks.move* | POST  /lists/*tasklist*/tasks/*task*/move | AUTHENTICATED |
| | *tasks.clear* | POST  /lists/*tasklist*/clear | AUTHENTICATED |
| Tasklist Collection ↳ Tasklist Resource | *tasklists.list* | GET  /users/@me/lists | AUTHENTICATED |
| | *tasklists.get* | GET  /users/@me/lists/*tasklist* | AUTHENTICATED |
| | *tasklists.insert* | POST  /users/@me/lists | AUTHENTICATED |
| | *tasklists.update* | PUT  /users/@me/lists/*tasklist* | AUTHENTICATED |
| | *tasklists.delete* | DELETE  /users/@me/lists/*tasklist* | AUTHENTICATED |

## Task Collection

### Task

The Task Collection contains Task Resources belonging to a Tasklist Resource.

The *tasks.list*, *tasks.insert*, and *tasks.clear* methods operate on a Task Collection. The *tasks.get*, *tasks.update*, *tasks.delete*, and *tasks.move* methods operate on the specified Task Resource.

# Task Resource

A Task Resource describes a single task.

```json
JSON

{
  "kind": "tasks#task",
  "id": (value),
  "etag": (value),
  "title": (value),
  "updated": (value),
  "selfLink": (value),
  "parent": (value),
  "position": (value),
  "notes": (value),
  "status": (value),
  "due": (value),
  "completed": (value),
  "deleted": (value),
  "hidden": (value)
}
```

| Property Name | Value | Description | Mutable |
|---|---|---|---|
| kind | string | Type of the resource. This is always `tasks#task`. | |
| id | string | Task identifier. | |
| etag | string | ETag of the resource. | |
| title | string | Title of the task. | yes |
| updated | string | Last modification time of the task (as an RFC 3339 timestamp). | |
| selfLink | string | URL pointing to this task. Used to retrieve, update, or delete this task. | |
| parent | string | Parent task identifier. This field is omitted if it is a top-level task. This field is read-only. Use the _move_ method to move the task under a different parent or to the top level. | |
| position | string | String indicating the position of the task among its sibling tasks under the same parent task or at the top level. If this string is greater than another task's corresponding position string according to lexicographical ordering, the task is positioned after the other task under the same parent task or at the top level. This field is read-only. Use the _move_ method to move the task to another position. | |
| notes | string | Notes describing the task. Optional. | yes |
| status | string | Status of the task. This is either `needsAction` or `completed`. | yes |
| due | string | Due date of the task (as an RFC 3339 timestamp). Optional. | yes |
| completed | string | Completion date of the task (as an RFC 3339 timestamp). This field is omitted if the task has not been completed. | yes |
| deleted | boolean | Flag indicating whether the task has been deleted. The default is `False`. | |
| hidden | boolean | Flag indicating whether the task is hidden. This is the case if the task had been marked completed when the task list was last cleared. The | |

| | | | default is `False`. This field is read-only. | |

## tasks.list  (AUTHENTICATED)

Returns all [Task Resources](#) in the specified task list. Authentication is required.

To refer to the authenticated user's default task list, use the special value `@default`.

This method supports the following optional [query parameters](#) that limit or expand the range of results returned:
`maxResults`, `completedMax`, `completedMin`, `dueMax`, `dueMin`, `showCompleted`, `showDeleted`, `showHidden`, `pageToken`, `updatedMin`.

**REST**

```
GET https://www.googleapis.com/tasks/v1/lists/tasklist/tasks
```

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**JSON**

```
{
  "kind": "tasks#tasks",
  "etag": (value),
  "nextPageToken": (value),
  "items": [
    tasks Resource
  ]
}
```

| Property Name | Value | Description |
|---|---|---|
| kind | string | Type of the resource. This is always `tasks#tasks`. |
| etag | string | ETag of the resource. |
| nextPageToken | string | Token used to access the next page of this result. |
| items | list | Collection of tasks. |

Invoking this method requires the use of a token with access to:
**https://www.googleapis.com/auth/tasks**
**https://www.googleapis.com/auth/tasks.readonly**

## tasks.get  (AUTHENTICATED)

Returns the specified [Task Resource](#). Authentication is required.

To refer to the authenticated user's default task list, use the special value `@default`.

**REST**

```
GET https://www.googleapis.com/tasks/v1/lists/tasklist/tasks/task
```

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—

> Invoking this method requires the use of a token with access to:
> **https://www.googleapis.com/auth/tasks**
> **https://www.googleapis.com/auth/tasks.readonly**

## tasks.insert  (AUTHENTICATED)

Creates a new task on the specified task list. Returns a copy of the created [Task Resource](). Authentication is required.

To refer to the authenticated user's default task list, use the special value `@default`.

This method supports the following optional [query parameters](): `parent`, `previous`.

**REST**

```
POST https://www.googleapis.com/tasks/v1/lists/tasklist/tasks
```

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—

> Invoking this method requires the use of a token with access to:
> **https://www.googleapis.com/auth/tasks**

## tasks.update  (AUTHENTICATED)

Updates the specified task. Returns a copy of the updated [Task Resource](). Authentication is required.

To refer to the authenticated user's default task list, use the special value `@default`.

**REST**

```
PUT https://www.googleapis.com/tasks/v1/lists/tasklist/tasks/task
```

🔲 **Try it now in the APIs Explorer!**

—

> Invoking this method requires the use of a token with access to:
> **https://www.googleapis.com/auth/tasks**

## tasks.delete  (AUTHENTICATED)

Deletes the specified task from the task list. Returns no data (only a status code). Authentication is required.

To refer to the authenticated user's default task list, use the special value `@default`.

**REST**

```
DELETE https://www.googleapis.com/tasks/v1/lists/tasklist/tasks/task
```

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---

Invoking this method requires the use of a token with access to:
**https://www.googleapis.com/auth/tasks**

---

## tasks.move  (AUTHENTICATED)

Moves the specified task to another position in the task list. This can include putting it as a child task under a new parent and/or moving it to a different position among its sibling tasks. Returns a copy of the updated Task Resource. Authentication is required.

To refer to the authenticated user's default task list, use the special value `@default`.

This method supports the following optional query parameters: `parent`, `previous`.

**REST**

```
POST https://www.googleapis.com/tasks/v1/lists/tasklist/tasks/task/move
```

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---

Invoking this method requires the use of a token with access to:
**https://www.googleapis.com/auth/tasks**

---

## tasks.clear  (AUTHENTICATED)

Clears all completed tasks from the specified task list. The affected tasks are marked as hidden and are no longer returned by default when retrieving all tasks for a task list. Returns no data (only a status code). Authentication is required.

**REST**

```
POST https://www.googleapis.com/tasks/v1/lists/tasklist/clear
```

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Invoking this method requires the use of a token with access to:
**https://www.googleapis.com/auth/tasks**

## Tasklist Collection

### Tasklist

The Tasklist Collection contains Tasklist Resources belonging to the authenticated user.

The *tasklists.list* and *tasklists.insert* methods operate on a Tasklist Collection. The *tasklists.get*, *tasklists.update*, and *tasklists.delete* methods operate on a Tasklist Resource.

### Tasklist Resource

A Tasklist Resource describes a single task list. Each user has at least one default Tasklist Resource. For each Tasklist Resource, there is a corresponding Task Collection that contains the tasks in that task list.

**JSON**

```
{
  "kind": "tasks#taskList",
  "id": (value),
  "etag": (value),
  "title": (value),
  "selfLink": (value)
}
```

| Property Name | Value | Description |
| --- | --- | --- |
| kind | string | Type of the resource. This is always `tasks#taskList`. |
| id | string | Task list identifier. |
| etag | string | ETag of the resource. |
| title | string | Title of the task list. |
| selfLink | string | URL pointing to this task list. Used to retrieve, update, or delete this task list. |

### tasklists.list  (AUTHENTICATED)

Returns all the authenticated user's Tasklist Resources. Authentication is required.

This method supports the following optional query parameters: `maxResults`, `pageToken`.

**REST**

```
GET https://www.googleapis.com/tasks/v1/users/@me/lists
```

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**JSON**

```
{
  "kind": "tasks#taskLists",
  "etag": (value),
  "nextPageToken": (value),
  "items": [
    tasklists Resource
  ]
}
```

| Property Name | Value | Description |
|---|---|---|
| kind | string | Type of the resource. This is always `tasks#taskLists`. |
| etag | string | ETag of the resource. |
| nextPageToken | string | Token that can be used to request the next page of this result. |
| items | list | Collection of task lists. |

Invoking this method requires the use of a token with access to:
**https://www.googleapis.com/auth/tasks**
**https://www.googleapis.com/auth/tasks.readonly**

## tasklists.get (AUTHENTICATED)

Returns the authenticated user's specified Tasklist Resource. Authentication is required.

**REST**

```
GET https://www.googleapis.com/tasks/v1/users/@me/lists/tasklist
```

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Invoking this method requires the use of a token with access to:
**https://www.googleapis.com/auth/tasks**
**https://www.googleapis.com/auth/tasks.readonly**

## tasklists.insert (AUTHENTICATED)

Creates a new task list and adds it to the authenticated user's task lists. Returns a copy of the created Tasklist Resource. Authentication is required.

Resource. Authentication is required.

**REST**

```
POST https://www.googleapis.com/tasks/v1/users/@me/lists
```

🔲 **Try it now in the APIs Explorer!**

Invoking this method requires the use of a token with access to:
**https://www.googleapis.com/auth/tasks**

## tasklists.update  (AUTHENTICATED)

Updates the authenticated user's specified task list. Returns a copy of the updated Tasklist Resource. Authentication is required.

**REST**

```
PUT https://www.googleapis.com/tasks/v1/users/@me/lists/tasklist
```

🔲 **Try it now in the APIs Explorer!**

Invoking this method requires the use of a token with access to:
**https://www.googleapis.com/auth/tasks**

## tasklists.delete  (AUTHENTICATED)

Deletes the authenticated user's specified task list. Returns no data (only a status code). Authentication is required.

**REST**

```
DELETE https://www.googleapis.com/tasks/v1/users/@me/lists/tasklist
```

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Invoking this method requires the use of a token with access to:
**https://www.googleapis.com/auth/tasks**

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