

# Namespace StravaAPILibary.API

## Classes

### [Activities](#)

Provides methods to interact with Strava's Activities API.

### [Athletes](#)

Provides methods to interact with Strava's Athletes API.

### [Clubs](#)

Provides methods to interact with Strava's Clubs API.

### [Gears](#)

Provides methods to interact with Strava's Gear API.

### [Routes](#)

Provides methods to interact with Strava's Routes API.

### [Segments](#)

Provides methods for interacting with Strava's Segments API.

### [SegmentsEfforts](#)

Provides methods for interacting with Strava's Segment Efforts API.

### [Streams](#)

Provides methods for retrieving stream data (detailed time-series data) from Strava.

### [Uploads](#)

Provides methods for uploading activities and retrieving upload statuses from the Strava API.

# Class Activities

Namespace: [StravaAPILibrary.API](#)

Assembly: StravaAPILibrary.dll

Provides methods to interact with Strava's Activities API.

```
public static class Activities
```

## Inheritance

[object](#) ← Activities

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Examples

Example: Retrieve the authenticated athlete's activities:

```
var activities = await Activities.GetAthletesActivitiesAsync(accessToken, page: 1,  
perPage: 30);
```

Example: Upload a new activity:

```
var uploadResponse = await Activities.PostActivityAsync(accessToken, "Morning Ride",  
"gpx", @"C:\ride.gpx");
```

## Remarks

This static class contains methods for retrieving, creating, and updating athlete activities in Strava. It communicates with Strava's REST API endpoints related to activities and returns JSON responses.

### Features:

- Retrieve authenticated athlete's activities.
- Fetch details of a specific activity by ID.
- Get related data like laps, zones, comments, and kudos.
- Upload new activities and update existing ones.

### Usage:

All methods require a valid `accessToken` (OAuth token) with appropriate scopes granted by Strava. Many methods also support pagination and optional filtering parameters.

## API Documentation:

Refer to the official Strava API documentation: [Strava API Reference](#).

# Methods

## GetActivityByIdAsync(string, string)

Get a specific activity by its ID.

```
public static Task<JsonObject> GetActivityByIdAsync(string accessToken, string activityId)
```

### Parameters

`accessToken` [string](#)

The OAuth access token.

`activityId` [string](#)

The ID of the activity to retrieve.

### Returns

[Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the activity details.

### Exceptions

[ArgumentException](#)

Thrown when `accessToken` or `activityId` is null or empty.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

## [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

# GetActivityCommentsAsync(string, string)

Get the comments for a specific activity.

```
public static Task<JSONArray> GetActivityCommentsAsync(string accessToken,  
string activityId)
```

Parameters

### **accessToken** [string](#)

The OAuth access token.

### **activityId** [string](#)

The ID of the activity to retrieve comments for.

Returns

### [Task](#) <[JSONArray](#)>

A [JSONArray](#) containing the comments of the activity.

Exceptions

## [ArgumentException](#)

Thrown when **accessToken** or **activityId** is null or empty.

## [HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

## [InvalidOperationException](#)

Thrown when the API response is empty.

## [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonArray](#).

## GetActivityKudosAsync(string, string)

Get the kudos given for a specific activity.

```
public static Task<JsonArray> GetActivityKudosAsync(string accessToken, string activityId)
```

### Parameters

**accessToken** [string](#)

The OAuth access token.

**activityId** [string](#)

The ID of the activity to retrieve kudos for.

### Returns

[Task](#) <[JsonArray](#)>

A [JsonArray](#) containing the kudos for the activity.

### Exceptions

[ArgumentException](#)

Thrown when **accessToken** or **activityId** is null or empty.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonArray](#).

## GetActivityLapsAsync(string, string)

Get a list of laps for a specific activity.

```
public static Task<JSONArray> GetActivityLapsAsync(string accessToken, string activityId)
```

### Parameters

**accessToken** [string](#)

The OAuth access token.

**activityId** [string](#)

The ID of the activity to retrieve laps for.

### Returns

[Task](#)<[JSONArray](#)>

A [JSONArray](#) containing the laps of the specified activity.

### Exceptions

[ArgumentException](#)

Thrown when **accessToken** or **activityId** is null or empty.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the JSON response cannot be parsed as a [JSONArray](#).

## GetActivityZonesAsync(string, string)

Get the zones for a specific activity.

```
public static Task<JSONArray> GetActivityZonesAsync(string accessToken, string activityId)
```

## Parameters

**accessToken** [string](#)

The OAuth access token.

**activityId** [string](#)

The ID of the activity to retrieve zones for.

## Returns

[Task](#)<[JSONArray](#)>

A [JSONArray](#) containing the activity's zones.

## Exceptions

[ArgumentException](#)

Thrown when **accessToken** or **activityId** is null or empty.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the JSON response cannot be parsed as a [JSONArray](#).

## GetAthletesActivitiesAsync(string, int, int, int, int)

Retrieves the activities of the authenticated athlete with optional filtering and pagination.

```
public static Task<JSONArray> GetAthletesActivitiesAsync(string accessToken, int before = 0,  
int after = 0, int page = 1, int perPage = 30)
```

## Parameters

**accessToken** [string](#)

The OAuth access token for authentication. Must be valid and not expired.

**before** [int](#)

Unix timestamp to filter activities before this date. Use 0 for no filter.

**after** [int](#)

Unix timestamp to filter activities after this date. Use 0 for no filter.

**page** [int](#)

Page number for pagination. Must be greater than 0.

**perPage** [int](#)

Number of activities per page. Must be between 1 and 200.

## Returns

[Task](#) <[JsonArray](#)>

A [JsonArray](#) containing the athlete's activities.

## Examples

Get recent activities:

```
var activities = await Activities.GetAthletesActivitiesAsync(accessToken, page: 1,  
perPage: 10);  
foreach (var activity in activities)  
{  
    Console.WriteLine($"Activity: {activity["name"]} - {activity["distance"]});  
}
```

Get activities from last 30 days:

```
int after = (int)DateTimeOffset.UtcNow.AddDays(-30).ToUnixTimeSeconds();  
var recentActivities = await Activities.GetAthletesActivitiesAsync(accessToken,  
after: after);
```

Get activities before a specific date:

```
int before = (int)DateTimeOffset.Parse("2024-01-01").ToUnixTimeSeconds();
var oldActivities = await Activities.GetAthletesActivitiesAsync(accessToken,
before: before);
```

Implement pagination:

```
int page = 1;
int perPage = 50;
bool hasMoreActivities = true;

while (hasMoreActivities)
{
    var activities = await Activities.GetAthletesActivitiesAsync(accessToken, page: page,
perPage: perPage);

    if (activities.Count == 0)
    {
        hasMoreActivities = false;
    }
    else
    {
        // Process activities
        foreach (var activity in activities)
        {
            Console.WriteLine($"Activity: {activity["name"]}");
        }

        page++;
    }
}
```

## Remarks

This method retrieves the authenticated athlete's activities from Strava. Activities are returned in reverse chronological order (most recent first).

### Filtering:

- Use `after` to get activities from a specific date onwards
- Use `before` to get activities up to a specific date
- Both filters use Unix timestamps (seconds since epoch)
- Use 0 for either parameter to disable that filter

## Pagination:

- Activities are paginated with a maximum of 200 per page
- Use `page` to navigate through pages
- Use `perPage` to control the number of activities returned
- Empty array is returned when no more activities are available

## Required Scope:

This method requires the `activity:read_all` scope to access all activities, or `activity:read` for public activities only.

## Rate Limits:

This endpoint is subject to Strava's API rate limits. Consider implementing exponential backoff for retry logic.

## Exceptions

### [ArgumentException](#)

Thrown when `accessToken` is null or empty.

### [ArgumentOutOfRangeException](#)

Thrown when `page` or `perPage` is less than or equal to zero.

### [HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

### [InvalidOperationException](#)

Thrown when the API response is empty.

### [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JSONArray](#).

## PostActivityAsync(string, string, string, string, string?, bool, bool, string?, string?)

Posts (uploads) an activity file to Strava.

```
public static Task<JsonObject> PostActivityAsync(string accessToken, string name, string dataType, string filePath, string? description = null, bool isTrainer = false, bool isCommute = false, string? externalId = null, string? sportType = null)
```

## Parameters

**accessToken** [string](#)

The OAuth access token.

**name** [string](#)

The name of the activity.

**dataType** [string](#)

The file type of the upload (fit, gpx, tcx).

**filePath** [string](#)

The path to the activity file.

**description** [string](#)

Optional: A description of the activity.

**isTrainer** [bool](#)

Optional: Set to true if this is a trainer ride.

**isCommute** [bool](#)

Optional: Set to true if this is a commute activity.

**externalId** [string](#)

Optional: An external ID to uniquely identify this upload.

**sportType** [string](#)

Optional: The sport type (e.g., "Run", "Ride").

## Returns

[Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the upload status.

## Exceptions

### [ArgumentException](#)

Thrown when accessToken, name, or dataType are invalid.

### [FileNotFoundException](#)

Thrown when the specified file does not exist.

### [HttpRequestException](#)

Thrown when the Strava API request fails.

### [JsonException](#)

Thrown when the response cannot be parsed as JSON.

## UpdateActivityAsync(string, long, string?, string?, bool?, bool?, string?, string?)

Updates an activity by its ID.

```
public static Task<JsonObject> UpdateActivityAsync(string accessToken, long activityId,
string? name = null, string? description = null, bool? isTrainer = null, bool? isCommute =
null, string? sportType = null, string? gearId = null)
```

## Parameters

### accessToken [string](#)

The OAuth access token.

### activityId [long](#)

The ID of the activity to update.

### name [string](#)

Optional: New name for the activity.

**description** [string](#)

Optional: New description for the activity.

**isTrainer** [bool](#)?

Optional: Whether the activity is a trainer ride.

**isCommute** [bool](#)?

Optional: Whether the activity is a commute.

**sportType** [string](#)

Optional: The sport type (e.g., "Run", "Ride").

**gearId** [string](#)

Optional: The gear ID to associate with the activity.

Returns

[Task](#)<[JsonObject](#)>

A [JsonObject](#) containing the updated activity data.

Exceptions

[ArgumentException](#)

Thrown when **accessToken** is null or empty or **activityId** is invalid.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[JsonException](#)

Thrown when the JSON response cannot be parsed.

# Class Athletes

Namespace: [StravaAPILibrary.API](#)

Assembly: StravaAPILibrary.dll

Provides methods to interact with Strava's Athletes API.

```
public static class Athletes
```

## Inheritance

[object](#) ← Athletes

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Examples

Example: Retrieve the authenticated athlete's profile:

```
var profile = await Athletes.GetAuthenticatedAthleteProfileAsync(accessToken);
```

Example: Update athlete weight:

```
var updatedProfile = await Athletes.UpdateAuthenticatedAthleteAsync(accessToken, 72.5f);
```

## Remarks

This static class contains methods for retrieving and updating information about the authenticated athlete and other related athlete-specific data. It communicates with Strava's REST API and returns JSON responses.

### Features:

- Retrieve the authenticated athlete's profile details.
- Fetch athlete statistics (e.g., totals, ride/run stats).
- Retrieve heart rate and power zones.
- Update athlete information such as weight (requires `profile:write` scope).

### Usage:

All methods require a valid `accessToken` (OAuth token) with the necessary scopes granted.

## API Documentation:

See the official Strava API reference: [Strava API Reference](#).

# Methods

## GetAuthenticatedAthleteProfileAsync(string)

Get the authenticated Athlete's profile.

```
public static Task<JsonObject> GetAuthenticatedAthleteProfileAsync(string accessToken)
```

### Parameters

`accessToken` [string](#)

The access token for authentication.

### Returns

[Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the athlete's profile information.

### Exceptions

[ArgumentException](#)

Thrown when `accessToken` is null or empty.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

# GetAuthenticatedAthleteStatsAsync(string, string)

Get Athlete's stats for the authenticated athlete. This method retrieves the statistics of a specific athlete using their athlete ID.

```
public static Task<JsonObject> GetAuthenticatedAthleteStatsAsync(string accessToken,  
string athleteId)
```

## Parameters

**accessToken** [string](#)

The access token for authentication.

**athleteId** [string](#)

The ID of the athlete whose stats are to be retrieved.

## Returns

[Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the athlete's statistics.

## Exceptions

[ArgumentException](#)

Thrown when **accessToken** or **athleteId** is null or empty.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

## GetAuthenticatedAthleteZonesAsync(string)

Get Athlete's heart rate and power zones for the authenticated athlete.

```
public static Task<JsonObject> GetAuthenticatedAthleteZonesAsync(string accessToken)
```

### Parameters

`accessToken` [string](#)

The access token for authentication.

### Returns

[Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the athlete's heart rate and power zones.

### Exceptions

[ArgumentException](#)

Thrown when `accessToken` is null or empty.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

## UpdateAuthenticatedAthleteAsync(string, float)

Updates the authenticated athlete's weight. Requires scope: profile:write.

```
public static Task<JsonObject> UpdateAuthenticatedAthleteAsync(string accessToken,  
float weight)
```

## Parameters

**accessToken** [string](#)

The OAuth access token.

**weight** [float](#)

The new weight of the athlete in kilograms.

## Returns

[Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the updated athlete profile.

## Exceptions

[ArgumentException](#)

Thrown when the access token is null or empty.

[HttpRequestException](#)

Thrown when the API request fails.

[InvalidOperationException](#)

Thrown when the response is empty.

[JsonException](#)

Thrown when the response cannot be parsed as JSON.

# Class Clubs

Namespace: [StravaAPILibrary.API](#)

Assembly: StravaAPILibrary.dll

Provides methods to interact with Strava's Clubs API.

```
public static class Clubs
```

## Inheritance

[object](#) ← Clubs

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Remarks

This static class offers functionality for retrieving information related to Strava clubs, including club details, members, activities, and admins. All methods require a valid OAuth `accessToken` with the necessary scopes.

## Features:

- Retrieve detailed information about a specific club by its ID.
- Fetch the list of clubs the authenticated athlete is a member of.
- Retrieve members, activities, and admins of a specific club.

## Usage:

```
var club = await Clubs.GetClubByIdAsync(accessToken, 12345);
var members = await Clubs.GetClubMembersAsync(accessToken, 12345);
var activities = await Clubs.GetClubActivitiesAsync(accessToken, 12345);
var admins = await Clubs.GetClubAdminsAsync(accessToken, 12345);
```

## API Documentation:

See the official Strava API reference: [Strava API Reference](#).

## Methods

# GetClubActivitiesAsync(string, long, int, int)

Get the activities of a club by its ID.

```
public static Task<JSONArray> GetClubActivitiesAsync(string accessToken, long clubId, int page = 1, int perPage = 30)
```

## Parameters

`accessToken` [string](#)

The OAuth access token.

`clubId` [long](#)

The ID of the club.

`page` [int](#)

Page number for pagination (default: 1).

`perPage` [int](#)

Number of items per page (default: 30).

## Returns

[Task](#)<[JSONArray](#)>

A [JSONArray](#) containing the activities of the club.

## Exceptions

[ArgumentException](#)

Thrown when `accessToken` is null or empty or when `clubId` is invalid.

[ArgumentOutOfRangeException](#)

Thrown when `page` or `perPage` is less than or equal to zero.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

## [InvalidOperationException](#)

Thrown when the API response is empty.

## [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonArray](#).

# GetClubAdminsAsync(string, long, int, int)

Get the admins of a club by its ID.

```
public static Task<JsonArray> GetClubAdminsAsync(string accessToken, long clubId, int page = 1, int perPage = 30)
```

## Parameters

### accessToken [string](#)

The OAuth access token.

### clubId [long](#)

The ID of the club.

### page [int](#)

Page number for pagination (default: 1).

### perPage [int](#)

Number of items per page (default: 30).

## Returns

### [Task](#) <[JsonArray](#)>

A [JsonArray](#) containing the admins of the club.

## Exceptions

### [ArgumentException](#)

Thrown when `accessToken` is null or empty or when `clubId` is invalid.

#### [ArgumentException](#)

Thrown when `page` or `perPage` is less than or equal to zero.

#### [HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

#### [InvalidOperationException](#)

Thrown when the API response is empty.

#### [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JSONArray](#).

## GetClubByIdAsync(string, long)

Get a club by its ID.

```
public static Task<JsonObject> GetClubByIdAsync(string accessToken, long clubId)
```

### Parameters

#### `accessToken` [string](#)

The access token for the API.

#### `clubId` [long](#)

The ID of the club to retrieve.

### Returns

#### [Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the club data.

### Exceptions

#### [ArgumentException](#)

Thrown when the access token or club ID is null or empty.

#### [HttpRequestException](#)

Thrown when the request to the API fails.

#### [InvalidOperationException](#)

Thrown when the response is empty.

#### [JsonException](#)

Thrown when the JSON response cannot be parsed.

## GetClubMembersAsync(string, long, int, int)

Get the members of a club by its ID.

```
public static Task<JSONArray> GetClubMembersAsync(string accessToken, long clubId, int page = 1, int perPage = 30)
```

### Parameters

#### `accessToken` [string](#)

The OAuth access token.

#### `clubId` [long](#)

The ID of the club.

#### `page` [int](#)

Page number for pagination (default: 1).

#### `perPage` [int](#)

Number of items per page (default: 30).

### Returns

#### [Task](#) <[JSONArray](#)>

A [JSONArray](#) containing the members of the club.

## Exceptions

### [ArgumentException](#)

Thrown when `accessToken` is null or empty or when `clubId` is invalid.

### [ArgumentOutOfRangeException](#)

Thrown when `page` or `perPage` is less than or equal to zero.

### [HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

### [InvalidOperationException](#)

Thrown when the API response is empty.

### [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JSONArray](#).

## GetClubsAsync(string, int, int)

Get clubs for the authenticated athlete.

```
public static Task<JSONArray> GetClubsAsync(string accessToken, int page = 1, int perPage = 30)
```

## Parameters

### `accessToken` [string](#)

The OAuth access token.

### `page` [int](#)

Page number for pagination (default: 1).

### `perPage` [int](#)

Number of items per page (default: 30).

## Returns

## [Task](#) <[JsonArray](#)>

A [JsonArray](#) containing the clubs of the authenticated athlete.

## Exceptions

### [ArgumentException](#)

Thrown when `accessToken` is null or empty.

### [ArgumentOutOfRangeException](#)

Thrown when `page` or `perPage` is less than or equal to zero.

### [HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

### [InvalidOperationException](#)

Thrown when the API response is empty.

### [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonArray](#).

# Class Gears

Namespace: [StravaAPILibrary.API](#)

Assembly: StravaAPILibrary.dll

Provides methods to interact with Strava's Gear API.

```
public static class Gears
```

## Inheritance

[object](#) ← Gears

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Remarks

This static class offers functionality for retrieving information about gear associated with an athlete's Strava account.

### Features:

- Retrieve detailed information about a specific gear item (bike or shoes) by its ID.

### Usage:

```
var gear = await Gears.GetGearByIdAsync(accessToken, "b1234567898765509876");
Console.WriteLine(gear["name"]);
```

### API Documentation:

See the official Strava API reference: [Strava API Reference](#).

## Methods

### GetGearByIdAsync(string, string)

Get a gear by its ID.

```
public static Task<JsonObject> GetGearByIdAsync(string accessToken, string gearId)
```

## Parameters

**accessToken** [string](#)

The OAuth access token.

**gearId** [string](#)

The ID of the gear.

## Returns

[Task](#)<[JsonObject](#)>

A [JsonObject](#) containing the gear details.

## Exceptions

[ArgumentException](#)

Thrown when **accessToken** or **gearId** is null or empty.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

# Class Routes

Namespace: [StravaAPILibrary.API](#)

Assembly: StravaAPILibrary.dll

Provides methods to interact with Strava's Routes API.

```
public static class Routes
```

## Inheritance

[object](#) ← Routes

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Remarks

This static class contains methods for retrieving and exporting route data associated with Strava athletes.

## Features:

- Retrieve detailed information about a specific route by its ID.
- Retrieve a list of routes associated with a specific athlete.
- Export a route in GPX or TCX format for external usage.

## Usage:

```
var route = await Routes.GetRouteByIdAsync(accessToken, 123456);
Console.WriteLine(route["name"]);

var gpxData = await Routes.GetRouteGpxExportAsync(accessToken, 123456);
File.WriteAllText("route.gpx", gpxData);
```

## API Documentation:

See the official Strava API reference: [Strava Routes API Reference](#).

# Methods

## GetRouteByIdAsync(string, long)

Get a route by its ID.

```
public static Task<JsonObject> GetRouteByIdAsync(string accessToken, long routeId)
```

### Parameters

**accessToken** [string](#)

The OAuth access token.

**routeId** [long](#)

The ID of the route to retrieve.

### Returns

[Task](#)<[JsonObject](#)>

A [JsonObject](#) containing the route data.

### Exceptions

[ArgumentException](#)

Thrown when **accessToken** is null or empty, or when **routeId** is invalid.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

## GetRouteGpxExportAsync(string, long)

Get a GPX export of a route by its ID.

```
public static Task<string> GetRouteGpxExportAsync(string accessToken, long routeId)
```

## Parameters

**accessToken** [string](#)

The OAuth access token.

**routeId** [long](#)

The ID of the route to export.

## Returns

[Task](#)<[string](#)>

A string containing the GPX data of the route.

## Exceptions

[ArgumentException](#)

Thrown when **accessToken** is null or empty, or when **routeId** is invalid.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the GPX response is empty.

## GetRouteTcxExportAsync(string, long)

Get a TCX export of a route by its ID.

```
public static Task<string> GetRouteTcxExportAsync(string accessToken, long routeId)
```

## Parameters

**accessToken** [string](#)

The OAuth access token.

#### [routeId](#) [long](#)

The ID of the route to export.

Returns

#### [Task](#) <[string](#)>

A string containing the TCX data of the route.

Exceptions

#### [ArgumentException](#)

Thrown when `accessToken` is null or empty, or when `routeId` is invalid.

#### [HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

#### [InvalidOperationException](#)

Thrown when the TCX response is empty.

## GetRoutesByAthleteIdAsync(string, long, int, int)

Get a list of routes from a specific athlete.

```
public static Task<JSONArray> GetRoutesByAthleteIdAsync(string accessToken, long athleteId,  
int page = 1, int perPage = 30)
```

Parameters

#### [accessToken](#) [string](#)

The OAuth access token.

#### [athleteId](#) [long](#)

The ID of the athlete.

`page` [int](#)

Page number for pagination (default: 1).

`perPage` [int](#)

Number of items per page (default: 30).

Returns

[Task](#) <[JsonArray](#)>

A [JsonArray](#) containing the athlete's routes.

Exceptions

[ArgumentException](#)

Thrown when `accessToken` is null or empty or `athleteId` is invalid.

[ArgumentOutOfRangeException](#)

Thrown when `page` or `perPage` is less than or equal to zero.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonArray](#).

# Class Segments

Namespace: [StravaAPILibrary.API](#)

Assembly: StravaAPILibrary.dll

Provides methods for interacting with Strava's Segments API.

```
public static class Segments
```

## Inheritance

[object](#) ← Segments

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Remarks

This static class includes methods to retrieve, explore, and manage segments for the authenticated athlete.

## Features:

- Retrieve detailed information about a specific segment by its ID.
- Get a list of starred segments for the authenticated athlete.
- Explore top 10 segments within a defined geographical bounding box.
- Star or unstar a segment for the authenticated athlete.

## Usage Example:

```
// Retrieve a segment by ID:  
var segment = await Segments.GetSegmentByIdAsync(accessToken, "12345");  
Console.WriteLine(segment["name"]);  
  
// Star a segment:  
var updatedSegment = await Segments.PutStarredSegmentAsync(accessToken, 12345, true);
```

## API Documentation:

Refer to the official Strava API documentation for segments: [Strava Segments API Reference](#).

# Methods

## GetExploreSegmentsAsync(string, float[], string, int, int)

Get a list of top 10 segments for the specified query.

```
public static Task<JsonArray> GetExploreSegmentsAsync(string accessToken, float[] bounds,  
string activityType = "", int minCat = -1, int maxCat = -1)
```

### Parameters

**accessToken** [string](#)

Strava access token.

**bounds** [float](#)[]

Array of four float values [SW lat, SW lon, NE lat, NE lon].

**activityType** [string](#)

Activity type: "running" or "riding".

**minCat** [int](#)

Minimum climbing category (-1 for any).

**maxCat** [int](#)

Maximum climbing category (-1 for any).

### Returns

[Task](#)<[JsonArray](#)>

A [JsonArray](#) containing the top 10 segments matching the query.

### Exceptions

[ArgumentException](#)

Thrown when **accessToken** is null or empty, or when **bounds** is null or does not contain exactly 4 elements.

## [HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

## [InvalidOperationException](#)

Thrown when the API response is empty.

## [JsonException](#)

Thrown when the JSON response cannot be parsed or does not contain a 'segments' array.

# GetSegmentByIdAsync(string, string)

Get a segment by its ID.

```
public static Task<JsonObject> GetSegmentByIdAsync(string accessToken, string segmentId)
```

Parameters

### **accessToken** [string](#)

The access token for the API.

### **segmentId** [string](#)

The ID of the segment to retrieve.

Returns

### [Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the segment data.

Exceptions

## [ArgumentException](#)

Thrown when the access token or segment ID is null or empty.

## [HttpRequestException](#)

Thrown when the request to the API fails.

## [InvalidOperationException](#)

Thrown when the response is empty.

## [JsonException](#)

Thrown when the JSON response cannot be parsed.

# GetStarredSegmentsAsync(string, int, int)

Get starred segments for the authenticated athlete.

```
public static Task<JSONArray> GetStarredSegmentsAsync(string accessToken, int page = 1, int perPage = 30)
```

## Parameters

### accessToken [string](#)

The OAuth access token.

### page [int](#)

Page number (default: 1).

### perPage [int](#)

Number of items per page (default: 30).

## Returns

### [Task](#) <[JSONArray](#)>

A [JSONArray](#) containing the starred segments.

## Exceptions

### [ArgumentException](#)

Thrown when `accessToken` is null or empty.

### [ArgumentOutOfRangeException](#)

Thrown when `page` or `perPage` is less than or equal to zero.

#### [HttpRequestException](#)

Thrown when the API request fails or returns a non-success status code.

#### [InvalidOperationException](#)

Thrown when the API response is empty.

#### [JsonException](#)

Thrown when the response JSON cannot be parsed as a [JsonArray](#).

## PutStarredSegmentAsync(string, long, bool)

Stars or unstars a segment for the authenticated athlete.

```
public static Task<JsonObject> PutStarredSegmentAsync(string accessToken, long segmentId,  
bool starred)
```

### Parameters

#### `accessToken` [string](#)

The OAuth access token.

#### `segmentId` [long](#)

The ID of the segment to star or unstar.

#### `starred` [bool](#)

True to star the segment; false to unstar.

### Returns

#### [Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the updated segment data.

### Exceptions

## [ArgumentException](#)

Thrown when `accessToken` is null or empty, or when `segmentId` is invalid.

## [HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

## [InvalidOperationException](#)

Thrown when the API response is empty.

## [JsonException](#)

Thrown when the API response cannot be parsed.

# Class SegmentsEfforts

Namespace: [StravaAPILibrary.API](#)

Assembly: StravaAPILibrary.dll

Provides methods for interacting with Strava's Segment Efforts API.

```
public static class SegmentsEfforts
```

## Inheritance

[object](#) ← SegmentsEfforts

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Remarks

This static class includes methods to retrieve segment efforts for the authenticated athlete. Some endpoints require a Strava subscription and the [activity:read](#) OAuth scope.

## Features:

- Retrieve a list of segment efforts for the authenticated athlete and a given segment.
- Retrieve details of a specific segment effort by its ID.

## Usage Example:

```
// Get all segment efforts for a segment (requires subscription):
var efforts = await SegmentsEfforts.GetSegmentEffortsAsync(accessToken, 123456,
DateTime.Parse("2024-01-01"), DateTime.Parse("2024-02-01"));

// Get details of a specific segment effort:
var effort = await SegmentsEfforts.GetSegmentEffortByIdAsync(accessToken, 987654);
Console.WriteLine(effort["elapsed_time"]);
```

## API Documentation:

Refer to the official Strava API documentation for segment efforts: [Strava Segment Efforts API Reference](#).

# Methods

## GetSegmentEffortByIdAsync(string, long)

Get a specific segment effort by its ID.

```
public static Task<JsonObject> GetSegmentEffortByIdAsync(string accessToken,  
long segmentEffortId)
```

### Parameters

**accessToken** [string](#)

The OAuth access token.

**segmentEffortId** [long](#)

The ID of the segment effort.

### Returns

[Task](#)<[JsonObject](#)>

A [JsonObject](#) containing the segment effort details.

### Exceptions

[ArgumentException](#)

Thrown when **accessToken** is null or empty, or when **segmentEffortId** is invalid.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the API response cannot be parsed as JSON.

## GetSegmentEffortsAsync(string, long, DateTime?, DateTime?, int)

Returns a set of the authenticated athlete's segment efforts for a given segment. Requires subscription and scope: activity:read.

```
public static Task<JsonArray> GetSegmentEffortsAsync(string accessToken, long segmentId,  
DateTime? startDateLocal = null, DateTime? endDateLocal = null, int perPage = 30)
```

### Parameters

**accessToken** [string](#)

The OAuth access token.

**segmentId** [long](#)

The ID of the segment.

**startDateLocal** [DateTime](#)?

Optional: ISO 8601 formatted start date (e.g. "2024-01-01T00:00:00Z").

**endDateLocal** [DateTime](#)?

Optional: ISO 8601 formatted end date (e.g. "2024-02-01T00:00:00Z").

**perPage** [int](#)

Number of items per page. Default: 30.

### Returns

[Task](#) <[JsonArray](#)>

A [JsonArray](#) containing the list of segment efforts.

### Exceptions

[ArgumentException](#)

Thrown if **accessToken** is null or empty, or **segmentId** is invalid.

[HttpRequestException](#)

Thrown when the API request fails.

[InvalidOperationException](#) ↗

Thrown when the response is empty.

[JsonException](#) ↗

Thrown when the response cannot be parsed.

# Class Streams

Namespace: [StravaAPILibrary.API](#)

Assembly: StravaAPILibrary.dll

Provides methods for retrieving stream data (detailed time-series data) from Strava.

```
public static class Streams
```

## Inheritance

[object](#) ← Streams

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Remarks

Streams represent detailed data points over time or distance, such as GPS coordinates, altitude, speed, heart rate, cadence, power, and more.

## Features:

- Retrieve streams for a specific activity.
- Retrieve streams for a specific segment.
- Retrieve streams for a specific route.
- Retrieve streams for a specific segment effort.

## Usage Example:

```
// Example: Get lat/lng and altitude streams for an activity
var streams = await Streams.GetActivityStreamsAsync(accessToken, 123456789,
    "latlng,altitude", true);
Console.WriteLine(streams["latlng"]);
```

## API Documentation:

Refer to the official Strava API documentation for streams: [Strava Streams API Reference](#).

## Methods

# GetActivityStreamsAsync(string, long, string?, bool)

Get streams for a specific activity.

```
public static Task<JsonObject> GetActivityStreamsAsync(string accessToken, long activityId,  
string? keys = null, bool keyByType = false)
```

## Parameters

**accessToken** [string](#)

The OAuth access token.

**activityId** [long](#)

The ID of the activity.

**keys** [string](#)

Optional: Comma-separated list of stream types to retrieve (e.g., "latlng,altitude").

**keyByType** [bool](#)

Optional: If true, streams will be returned as a map keyed by type.

## Returns

[Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the streams data.

## Exceptions

[ArgumentException](#)

Thrown when **accessToken** is null or empty or **activityId** is invalid.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

## [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

## GetRouteStreamsAsync(string, long, string?, bool)

Get streams for a specific route.

```
public static Task<JsonObject> GetRouteStreamsAsync(string accessToken, long routeId,  
string? keys = null, bool keyByType = false)
```

Parameters

**accessToken** [string](#)

The OAuth access token.

**routeId** [long](#)

The ID of the route.

**keys** [string](#)

Optional: Comma-separated list of stream keys (e.g., "distance,altitude,latlng").

**keyByType** [bool](#)

Optional: If true, streams will be returned as a map keyed by type.

Returns

[Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the route streams.

Exceptions

[ArgumentException](#)

Thrown when **accessToken** is null or empty or **routeId** is invalid.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

### [InvalidOperationException](#)

Thrown when the API response is empty.

### [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

## GetSegmentEffortStreamsAsync(string, long, string?, bool)

Get streams for a specific segment effort.

```
public static Task<JsonObject> GetSegmentEffortStreamsAsync(string accessToken, long  
segmentEffortId, string? keys = null, bool keyByType = false)
```

Parameters

### accessToken [string](#)

The OAuth access token.

### segmentEffortId [long](#)

The ID of the segment effort.

### keys [string](#)

Optional: Comma-separated list of stream keys (e.g., "distance,time,latlng").

### keyByType [bool](#)

Optional: If true, streams will be returned as a map keyed by type.

Returns

### [Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the segment effort streams.

Exceptions

## [ArgumentException](#)

Thrown when `accessToken` is null or empty or `segmentEffortId` is invalid.

## [HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

## [InvalidOperationException](#)

Thrown when the API response is empty.

## [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

# GetSegmentStreamsAsync(string, long, string?, bool)

Get streams for a specific segment.

```
public static Task<JsonObject> GetSegmentStreamsAsync(string accessToken, long segmentId,  
string? keys = null, bool keyByType = false)
```

## Parameters

### `accessToken` [string](#)

The OAuth access token.

### `segmentId` [long](#)

The ID of the segment.

### `keys` [string](#)

Optional: Comma-separated list of stream keys (e.g., "distance,altitude,latlng").

### `keyByType` [bool](#)

Optional: If true, streams will be returned as a map keyed by type.

## Returns

### [Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the segment streams.

## Exceptions

### [ArgumentException](#)

Thrown when `accessToken` is null or empty or `segmentId` is invalid.

### [HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

### [InvalidOperationException](#)

Thrown when the API response is empty.

### [JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

# Class Uploads

Namespace: [StravaAPILibrary.API](#)

Assembly: StravaAPILibrary.dll

Provides methods for uploading activities and retrieving upload statuses from the Strava API.

```
public static class Uploads
```

## Inheritance

[object](#) ← Uploads

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Remarks

The [Uploads](#) class supports two main operations:

- Uploading activity files (FIT, GPX, TCX) to Strava.
- Checking the processing status of previously uploaded activity files.

## Important Notes:

- Uploads may take a while to process. You should poll the upload status using [GetUploadAsync\(string, long\)](#).
- Uploading activities requires an authenticated athlete's access token with write permissions.

## Example Usage:

```
// Upload an activity file
var uploadResponse = await Uploads.UploadActivityAsync(accessToken, "activity.fit", "fit",
    "Morning Ride", "Great ride", false, false);
Console.WriteLine(uploadResponse["id"]);

// Check upload status
var uploadStatus = await Uploads.GetUploadAsync(accessToken, (long)uploadResponse["id"]);
Console.WriteLine(uploadStatus["status"]);
```

## API Reference:

See: [Strava Uploads API Documentation](#).

## Methods

### GetUploadAsync(string, long)

Get an upload status by its ID.

```
public static Task<JsonObject> GetUploadAsync(string accessToken, long uploadId)
```

#### Parameters

**accessToken** [string](#)

The OAuth access token.

**uploadId** [long](#)

The ID of the upload to retrieve.

#### Returns

[Task](#)<[JsonObject](#)>

A [JsonObject](#) containing the upload status and details.

#### Exceptions

[ArgumentException](#)

Thrown when **accessToken** is null or empty or when **uploadId** is invalid.

[HttpRequestException](#)

Thrown when the request to the Strava API fails or returns a non-success status code.

[InvalidOperationException](#)

Thrown when the API response is empty.

[JsonException](#)

Thrown when the JSON response cannot be parsed as a [JsonObject](#).

# UploadActivityAsync(string, string, string, string?, string?, bool, bool)

Uploads an activity file to Strava.

```
public static Task<JsonObject> UploadActivityAsync(string accessToken, string filePath, string dataType, string? name = null, string? description = null, bool isTrainer = false, bool isCommute = false)
```

## Parameters

`accessToken` [string](#)

The OAuth access token.

`filePath` [string](#)

The path to the activity file (FIT, GPX, TCX).

`dataType` [string](#)

The file type: "fit", "gpx", or "tcx".

`name` [string](#)

Optional: The name of the activity.

`description` [string](#)

Optional: A description of the activity.

`isTrainer` [bool](#)

Optional: Set to true if this is a trainer ride.

`isCommute` [bool](#)

Optional: Set to true if this is a commute.

## Returns

[Task](#) <[JsonObject](#)>

A [JsonObject](#) containing the upload status.

## Exceptions

### [ArgumentException](#)

Thrown when `accessToken` or `filePath` is invalid.

### [FileNotFoundException](#)

Thrown when the specified file does not exist.

### [HttpRequestException](#)

Thrown when the upload request fails.

# Namespace StravaAPILibary.Authentication

## Classes

### [Credentials](#)

Represents the credentials required for authenticating with the Strava API.

### [UserAuthentication](#)

Handles the OAuth 2.0 authentication flow for Strava users, including authorization, token exchange, and token refresh.

# Class Credentials

Namespace: [StravaAPILibrary.Authentication](#)

Assembly: StravaAPILibrary.dll

Represents the credentials required for authenticating with the Strava API.

```
public class Credentials
```

## Inheritance

[object](#) ← Credentials

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Examples

Complete authentication flow with credentials:

```
public class StravaClient
{
    private readonly Credentials _credentials;

    public StravaClient(string clientId, string clientSecret, string scope)
    {
        _credentials = new Credentials(clientId, clientSecret, scope);
    }

    public async Task<string> AuthenticateAsync()
    {
        var userAuth = new UserAuthentication(_credentials,
        "http://localhost:8080/callback", _credentials.Scope);

        userAuth.StartAuthorization();
        string authCode = await userAuth.WaitForAuthCodeAsync();

        bool success = await userAuth.ExchangeCodeForTokenAsync(authCode);
        if (success)
        {
            return _credentials.AccessToken;
        }
    }
}
```

```

        throw new InvalidOperationException("Authentication failed.");
    }

    public bool IsTokenValid()
    {
        return !string.IsNullOrEmpty(_credentials.AccessToken) &&
            _credentials.TokenExpiration > DateTime.UtcNow.AddMinutes(5);
    }
}

```

## Remarks

The `Credentials` class encapsulates all the necessary information for OAuth 2.0 authentication with the Strava API. It stores both the application credentials (client ID and secret) and the user's OAuth tokens (access token and refresh token).

### Application Credentials:

- `ClientId` - Unique identifier for your Strava application
- `ClientSecret` - Secret key for your Strava application (keep secure)
- `Scope` - Requested permissions for the application

### OAuth Tokens:

- `AccessToken` - Used for API requests (expires in 6 hours)
- `RefreshToken` - Used to get new access tokens (no expiration)
- `TokenExpiration` - When the access token expires

### Security Considerations:

- Never expose the client secret in client-side code
- Store tokens securely (environment variables, secure storage)
- Request minimal scopes needed for your application
- Implement proper token refresh logic

### Usage Example:

```

// Create credentials for a new application
var credentials = new Credentials("your_client_id", "your_client_secret",
"read,activity:read_all");

// After OAuth flow, tokens will be populated
Console.WriteLine($"Access Token: {credentials.AccessToken}");
Console.WriteLine($"Refresh Token: {credentials.RefreshToken}");

```

```
Console.WriteLine($"Expires: {credentials.TokenExpiration}");  
  
// Check if token is expired  
bool isExpired = credentials.TokenExpiration <= DateTime.UtcNow;
```

## Available Scopes:

- read - Basic profile access
- activity:read\_all - Read all activities
- activity:write - Upload activities
- profile:read\_all - Detailed profile access
- profile:write - Update profile information

# Constructors

## Credentials(string, string, string)

Initializes a new instance of the [Credentials](#) class with the specified client ID, client secret, and scope.

```
public Credentials(string clientId, string clientSecret, string scope)
```

### Parameters

`clientId` [string](#)

The client ID provided by Strava for the application. Must not be null or empty.

`clientSecret` [string](#)

The client secret associated with the Strava application. Must not be null or empty.

`scope` [string](#)

The scope of access required for API interactions. Multiple scopes can be separated by commas (e.g., read,activity:read\_all).

### Examples

```
// Basic credentials with minimal scope  
var credentials = new Credentials("12345", "your_secret", "read");
```

```

// Credentials with full activity access
var credentials = new Credentials("12345", "your_secret",
"read,activity:read_all,activity:write");

// Load from environment variables (recommended for production)
string clientId = Environment.GetEnvironmentVariable("STRAVA_CLIENT_ID")
?? throw new InvalidOperationException("STRAVA_CLIENT_ID not set");
string clientSecret = Environment.GetEnvironmentVariable("STRAVA_CLIENT_SECRET")
?? throw new InvalidOperationException("STRAVA_CLIENT_SECRET not set");
var credentials = new Credentials(clientId, clientSecret, "read,activity:read_all");

```

## Remarks

This constructor initializes a new `Credentials` object with the application's client credentials and requested scope. The OAuth tokens (access token, refresh token, expiration) will be populated after a successful OAuth flow.

### Parameter Validation:

- Client ID must be a valid Strava application ID
- Client secret must match the client ID
- Scope must be valid Strava OAuth scopes

### Common Scopes:

- `read` - Basic profile access (recommended minimum)
- `read,activity:read_all` - Read profile and activities
- `read,activity:read_all,activity:write` - Full activity access

## Exceptions

### [ArgumentNullException](#)

Thrown when `clientId`, `clientSecret`, or `scope` is null.

### [ArgumentException](#)

Thrown when `clientId`, `clientSecret`, or `scope` is empty or whitespace.

## Properties

### AccessToken

Gets or sets the OAuth access token used for API requests.

```
public string AccessToken { get; set; }
```

## Property Value

[string](#)

## Examples

```
// Use access token for API requests
using var client = new HttpClient();
client.DefaultRequestHeaders.Authorization =
    new AuthenticationHeaderValue("Bearer", credentials.AccessToken);

var response = await client.GetAsync("https://www.strava.com/api/v3/athlete");
```

## Remarks

The access token is obtained through the OAuth 2.0 authorization flow and is used to authenticate API requests to Strava. It expires after 6 hours and must be refreshed using the refresh token.

### Token Properties:

- Expires after 6 hours
- Used in Authorization header: Bearer {access\_token}
- Can be refreshed using RefreshToken
- Should be stored securely

### Validation:

Check TokenExpiration to determine if the token is still valid.

## ClientId

Gets or sets the client ID provided by Strava for the application.

```
public string ClientId { get; set; }
```

## Property Value

[string](#)

## Examples

```
var credentials = new Credentials("12345", "secret", "read");
Console.WriteLine(credentials.ClientId); // Output: 12345
```

## Remarks

The client ID is a unique identifier for your Strava application. It is provided when you create a new application in the Strava API settings.

This value is used in:

- OAuth authorization URL generation
- Token exchange requests
- Token refresh requests

## Security:

The client ID is not sensitive and can be safely included in client-side code.

## ClientSecret

Gets or sets the client secret associated with the Strava application.

```
public string ClientSecret { get; set; }
```

## Property Value

[string](#)

## Examples

```
// Load from environment variable (recommended)
string clientSecret = Environment.GetEnvironmentVariable("STRAVA_CLIENT_SECRET");
var credentials = new Credentials("12345", clientSecret, "read");
```

## Remarks

The client secret is a sensitive credential that should be kept secure. It is used to authenticate your application with Strava during the OAuth token exchange process.

## Security Requirements:

- Never expose in client-side code
- Store securely (environment variables, secure storage)
- Don't commit to version control
- Rotate if compromised

## Usage:

The client secret is only used server-side during OAuth token exchange and refresh operations.

# RefreshToken

Gets or sets the OAuth refresh token used to obtain a new access token when it expires.

```
public string RefreshToken { get; set; }
```

Property Value

[string](#)

## Examples

```
// Refresh access token when expired
if (credentials.TokenExpiration <= DateTime.UtcNow.AddMinutes(5))
{
    var userAuth = new UserAuthentication(credentials, redirectUri, scope);
    bool success = await userAuth.RefreshAccessTokenAsync();

    if (success)
    {
        // New access token is now available
        Console.WriteLine("Token refreshed successfully");
    }
}
```

## Remarks

The refresh token is obtained during the initial OAuth authorization and can be used to get new access tokens without requiring user re-authorization. Refresh tokens do not expire unless revoked.

### Token Properties:

- No expiration (until revoked by user)
- Used only for token refresh operations
- Should be stored securely alongside access token
- Can be revoked by user in Strava settings

### Usage:

Use this token with `UserAuthentication.RefreshAccessTokenAsync()` to get a new access token.

## Scope

Gets or sets the scope of access for the token.

```
public string Scope { get; set; }
```

### Property Value

[string](#) ↗

### Examples

```
// Minimal scope for basic functionality
var credentials = new Credentials("client_id", "secret", "read");

// Full scope for complete functionality
var credentials = new Credentials("client_id", "secret",
"read,activity:read_all,activity:write");

// Check if specific scope is granted
bool hasActivityRead = credentials.Scope.Contains("activity:read_all");
```

### Remarks

The scope defines what permissions your application has been granted by the user. Multiple scopes can be combined using commas.

### Available Scopes:

- read - Basic profile access (always included)
- activity:read\_all - Read all activities
- activity:write - Upload activities
- profile:read\_all - Detailed profile access
- profile:write - Update profile information

## Best Practices:

- Request only the scopes you need
- Explain to users why you need each scope
- Handle cases where users deny certain scopes

# TokenExpiration

Gets or sets the expiration date and time of the current access token.

```
public DateTime TokenExpiration { get; set; }
```

## Property Value

[DateTime](#)

## Examples

```
// Check if token is expired
bool isExpired = credentials.TokenExpiration <= DateTime.UtcNow;

// Check if token expires soon (within 5 minutes)
bool expiresSoon = credentials.TokenExpiration <= DateTime.UtcNow.AddMinutes(5);

// Calculate time until expiration
TimeSpan timeUntilExpiration = credentials.TokenExpiration - DateTime.UtcNow;
Console.WriteLine($"Token expires in {timeUntilExpiration.TotalMinutes:F0} minutes");
```

## Remarks

This property indicates when the current access token will expire. Access tokens expire after 6 hours from the time they were issued. After expiration, you must use the refresh token to get a new access token.

## Token Lifecycle:

1. Token is issued (expires in 6 hours)
2. Use token for API requests
3. Check expiration before making requests
4. Refresh token when close to expiration

### **Validation:**

Check if token is expired: `TokenExpiration <= DateTime.UtcNow`  
Check if token expires soon:  
`TokenExpiration <= DateTime.UtcNow.AddMinutes(5)`

# Class UserAuthentication

Namespace: [StravaAPILibrary.Authentication](#)

Assembly: StravaAPILibrary.dll

Handles the OAuth 2.0 authentication flow for Strava users, including authorization, token exchange, and token refresh.

```
public class UserAuthentication
```

## Inheritance

[object](#) ← UserAuthentication

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Examples

Complete authentication flow with error handling:

```
public async Task<string> AuthenticateAsync()
{
    var credentials = new Credentials("client_id", "client_secret",
"read,activity:read_all");
    var userAuth = new UserAuthentication(credentials, "http://localhost:8080/callback",
"read,activity:read_all");

    try
    {
        userAuth.StartAuthorization();
        string authCode = await userAuth.WaitForAuthCodeAsync();

        bool success = await userAuth.ExchangeCodeForTokenAsync(authCode);
        if (success)
        {
            return credentials.AccessToken;
        }
        else
        {
            throw new InvalidOperationException("Failed to exchange authorization code
for tokens.");
        }
    }
}
```

```

        }
    }
    catch (TimeoutException)
    {
        throw new InvalidOperationException("Authorization timed out. Please try again.");
    }
    catch (Exception ex)
    {
        throw new InvalidOperationException($"Authentication failed: {ex.Message}");
    }
}

```

## Remarks

The `UserAuthentication` class implements the complete OAuth 2.0 authorization code flow for Strava API integration.

### OAuth 2.0 Flow:

1. User is redirected to Strava's authorization page
2. User authorizes the application and grants requested scopes
3. Strava redirects back with an authorization code
4. Application exchanges the code for access and refresh tokens
5. Access token is used for API requests (expires in 6 hours)
6. Refresh token is used to get new access tokens when needed

### Usage Example:

```

// Create credentials
var credentials = new Credentials("your_client_id", "your_client_secret",
"read,activity:read_all");

// Initialize authentication
var userAuth = new UserAuthentication(credentials, "http://localhost:8080/callback",
"read,activity:read_all");

// Start authorization process
userAuth.StartAuthorization();

// Wait for user to complete authorization
string authCode = await userAuth.WaitForAuthCodeAsync();

// Exchange code for tokens
bool success = await userAuth.ExchangeCodeForTokenAsync(authCode);

```

```
if (success)
{
    string accessToken = credentials.AccessToken;
    // Use accessToken for API calls
}
```

## Token Management:

- Access tokens expire after 6 hours
- Refresh tokens have no expiration (until revoked)
- Use [RefreshAccessTokenAsync\(\)](#) to get new access tokens
- Store tokens securely (environment variables, secure storage)

## Security Considerations:

- Never expose client secret in client-side code
- Use HTTPS for redirect URIs in production
- Request minimal scopes needed for your application
- Implement proper error handling for token refresh failures

## API Documentation:

Refer to the official Strava API documentation for authentication: [Strava Authentication Guide](#).

# Constructors

## UserAuthentication(Credentials, string, string)

Initializes a new instance of the [UserAuthentication](#) class with the specified credentials and configuration.

```
public UserAuthentication(Credentials creds, string redirectUri, string scope)
```

### Parameters

**creds** [Credentials](#)

The Strava API credentials containing client ID and secret. Must not be null.

**redirectUri** [string](#)

The redirect URI registered for the Strava application. Must match the URI configured in your Strava app settings.

## scope [string](#)

The requested OAuth scope(s). Multiple scopes can be separated by commas (e.g., `read,activity:read_all`).

## Remarks

The redirect URI must exactly match what is configured in your Strava application settings.

Common redirect URIs for development:

- `http://localhost:8080/callback`
- `http://localhost:3000/callback`
- `http://localhost:5000/callback`

## Exceptions

### [ArgumentNullException](#)

Thrown when `creds`, `redirectUri`, or `scope` is null.

# Methods

## BuildAuthorizationUrl()

Builds the Strava OAuth authorization URL with the configured parameters.

```
public string BuildAuthorizationUrl()
```

## Returns

### [string](#)

The complete authorization URL for redirecting the user to Strava's authorization page.

## Examples

```
var userAuth = new UserAuthentication(credentials, "http://localhost:8080/callback",
"read,activity:read_all");
string authUrl = userAuth.BuildAuthorizationUrl();
Console.WriteLine(authUrl);
// Output: https://www.strava.com/oauth/authorize?
```

```
client_id=12345&redirect_uri=http%3A%2F%2Flocalhost%3A8080%2Fcallback&response_type=code&scope=read%2Cactivity%3Aread_all&approval_prompt=force
```

## Remarks

The generated URL includes:

- Client ID from credentials
- Redirect URI (URL-encoded)
- Response type set to "code"
- Requested scope (URL-encoded)
- Approval prompt set to "force" to always show authorization page

## ExchangeCodeForTokenAsync(string)

Exchanges an authorization code for an access token and refresh token.

```
public Task<bool> ExchangeCodeForTokenAsync(string authCode)
```

## Parameters

**authCode** [string](#)

The authorization code received from the OAuth redirect.

## Returns

[Task](#) <[bool](#)>

**true** if the token exchange was successful; otherwise, **false**.

## Examples

```
string authCode = "received_authorization_code";
bool success = await userAuth.ExchangeCodeForTokenAsync(authCode);

if (success)
{
    Console.WriteLine($"Access Token: {credentials.AccessToken}");
    Console.WriteLine($"Refresh Token: {credentials.RefreshToken}");
    Console.WriteLine($"Expires: {credentials.TokenExpiration}");
```

```
    }
    else
    {
        Console.WriteLine("Token exchange failed.");
    }
}
```

## Remarks

This method performs the OAuth 2.0 token exchange by sending a POST request to Strava's token endpoint. If successful, the access token, refresh token, and expiration time are stored in the credentials object.

### Token Exchange Process:

1. Send POST request to <https://www.strava.com/oauth/token>
2. Include client ID, client secret, authorization code, and grant type
3. Parse response to extract tokens and expiration
4. Store tokens in the credentials object

### Response Fields:

- `access_token` - Used for API requests (expires in 6 hours)
- `refresh_token` - Used to get new access tokens
- `expires_at` - Unix timestamp when access token expires
- `expires_in` - Seconds until access token expires

## Exceptions

### [ArgumentException](#)

Thrown when `authCode` is null or empty.

### [HttpRequestException](#)

Thrown when the token exchange request fails or returns a non-success status code.

### [JsonException](#)

Thrown when the response JSON cannot be parsed.

## OpenBrowser(string)

Opens the specified URL in the default browser.

```
public void OpenBrowser(string url)
```

## Parameters

### url [string](#)

The URL to open in the browser.

## Remarks

This method uses the system's default browser to open the provided URL. On Windows, it uses `Process.Start` with `UseShellExecute = true`.

## RefreshAccessTokenAsync()

Refreshes the access token using the refresh token.

```
public Task<bool> RefreshAccessTokenAsync()
```

## Returns

### [Task](#) <[bool](#)>

`true` if the token refresh was successful; otherwise, `false`.

## Examples

```
// Check if token needs refresh
if (credentials.TokenExpiration <= DateTime.UtcNow.AddMinutes(5))
{
    bool refreshSuccess = await userAuth.RefreshAccessTokenAsync();
    if (refreshSuccess)
    {
        Console.WriteLine("Token refreshed successfully.");
    }
    else
    {
        Console.WriteLine("Token refresh failed. User needs to re-authenticate.");
    }
}
```

## Remarks

This method uses the refresh token to obtain a new access token without requiring user re-authorization. The new access token and expiration time are stored in the credentials object.

### When to Use:

- Access token has expired (6 hours)
- Access token will expire soon (within 5 minutes)
- API calls return 401 Unauthorized errors

### Error Handling:

If the refresh token is invalid or has been revoked, this method will return false. In such cases, the user will need to re-authenticate using the full OAuth flow.

## Exceptions

### [InvalidOperationException](#)

Thrown when no refresh token is available.

### [HttpRequestException](#)

Thrown when the refresh request fails or returns a non-success status code.

### [JsonException](#)

Thrown when the response JSON cannot be parsed.

## StartAuthorization()

Starts the authorization process by opening the browser with the Strava OAuth URL.

```
public void StartAuthorization()
```

## Examples

```
var userAuth = new UserAuthentication(credentials, "http://localhost:8080/callback",
"read,activity:read_all");
userAuth.StartAuthorization();

// Option 1: Wait for automatic code capture
```

```
string authCode = await userAuth.WaitForAuthCodeAsync();

// Option 2: Handle redirect manually
// User will be redirected to http://localhost:8080/callback?code=YOUR_AUTH_CODE
// Extract the code parameter from the URL
```

## Remarks

This method opens the user's default browser and navigates to Strava's authorization page. The user will be prompted to log in to Strava (if not already logged in) and authorize your application.

After authorization, Strava will redirect the user back to your redirect URI with an authorization code.

Use [WaitForAuthCodeAsync\(\)](#) to automatically capture the authorization code, or handle the redirect manually.

## WaitForAuthCodeAsync()

Waits for the user to authorize the application and returns the authorization code.

```
public Task<string> WaitForAuthCodeAsync()
```

## Returns

[Task](#) <[string](#)>

The authorization code from the OAuth redirect.

## Examples

```
try
{
    userAuth.StartAuthorization();
    string authCode = await userAuth.WaitForAuthCodeAsync();
    Console.WriteLine($"Authorization code: {authCode}");

}
catch (TimeoutException)
{
    Console.WriteLine("Authorization timed out. Please try again.");
}
```

## Remarks

This method starts an HTTP listener on the redirect URI port and waits for the OAuth callback. It automatically handles the redirect response and extracts the authorization code.

### **Important:**

- The redirect URI must be accessible (localhost for development)
- Port must be available and not blocked by firewall
- Method times out after 5 minutes
- Returns a success page to the user's browser

### **Alternative:**

For production applications, consider handling the redirect manually instead of using this method.

## Exceptions

### [InvalidOperationException](#)

Thrown when the redirect URI is not set or the authorization code is missing in the response.

### [TimeoutException](#)

Thrown if no authorization is received within 5 minutes.

# Namespace StravaAPILibary.Models

## Classes

### [ActivityStats](#)

Represents rolled-up statistics and totals for an athlete, including recent, year-to-date, and all-time metrics for rides, runs, and swims.

### [ActivityTotal](#)

A roll-up of metrics pertaining to a set of activities. Values are in seconds and meters.

### [ActivityZone](#)

Represents an activity zone, such as heart rate or power, including its score, distribution, and related data.

### [Comment](#)

Represents a comment made on an activity.

### [Error](#)

Represents an error returned from the Strava API.

### [Fault](#)

Represents a fault response from the Strava API, including a message and associated errors.

### [TimedZoneDistribution](#)

Represents a collection of exclusive ranges (zones) and the time spent in each.

### [TimedZoneRange](#)

Represents the time spent in a specific zone range.

# Class ActivityStats

Namespace: [StravaAPILibrary.Models](#)

Assembly: StravaAPILibrary.dll

Represents rolled-up statistics and totals for an athlete, including recent, year-to-date, and all-time metrics for rides, runs, and swims.

```
public class ActivityStats
```

## Inheritance

[object](#) ← ActivityStats

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

### ActivityStats()

Initializes a new instance of the [ActivityStats](#) class with default values for all activity totals.

```
public ActivityStats()
```

## Properties

### AllRideTotals

The all-time ride statistics for the athlete.

```
[JsonPropertyName("all_ride_totals")]
public ActivityTotal AllRideTotals { get; set; }
```

## Property Value

## [ActivityTotal](#)

### AllRunTotals

The all-time run statistics for the athlete.

```
[JsonPropertyName("all_run_totals")]
public ActivityTotal AllRunTotals { get; set; }
```

Property Value

## [ActivityTotal](#)

### AllSwimTotals

The all-time swim statistics for the athlete.

```
[JsonPropertyName("all_swim_totals")]
public ActivityTotal AllSwimTotals { get; set; }
```

Property Value

## [ActivityTotal](#)

### BiggestClimbElevationGain

The highest climb elevation gain achieved by the athlete, in meters.

```
[JsonPropertyName("biggest_climb_elevation_gain")]
public double BiggestClimbElevationGain { get; set; }
```

Property Value

## [double](#)

## BIGGESTRIDE

The longest distance ridden by the athlete, in meters.

```
[JsonPropertyName("biggest_ride_distance")]
public double BiggestRideDistance { get; set; }
```

Property Value

[double](#)

## RECENTRIDGETALS

The recent (last 4 weeks) ride statistics for the athlete.

```
[JsonPropertyName("recent_ride_totals")]
public ActivityTotal RecentRideTotals { get; set; }
```

Property Value

[ActivityTotal](#)

## RECENTRUNTALS

The recent (last 4 weeks) run statistics for the athlete.

```
[JsonPropertyName("recent_run_totals")]
public ActivityTotal RecentRunTotals { get; set; }
```

Property Value

[ActivityTotal](#)

## RECENTSWIMTALS

The recent (last 4 weeks) swim statistics for the athlete.

```
[JsonPropertyName("recent_swim_totals")]
public ActivityTotal RecentSwimTotals { get; set; }
```

## Property Value

[ActivityTotal](#)

## YtdRideTotals

The year-to-date ride statistics for the athlete.

```
[JsonPropertyName("ytd_ride_totals")]
public ActivityTotal YtdRideTotals { get; set; }
```

## Property Value

[ActivityTotal](#)

## YtdRunTotals

The year-to-date run statistics for the athlete.

```
[JsonPropertyName("ytd_run_totals")]
public ActivityTotal YtdRunTotals { get; set; }
```

## Property Value

[ActivityTotal](#)

## YtdSwimTotals

The year-to-date swim statistics for the athlete.

```
[JsonPropertyName("ytd_swim_totals")]
public ActivityTotal YtdSwimTotals { get; set; }
```

# Property Value

[ActivityTotal](#)

# Class ActivityTotal

Namespace: [StravaAPILibrary.Models](#)

Assembly: StravaAPILibrary.dll

A roll-up of metrics pertaining to a set of activities. Values are in seconds and meters.

```
public class ActivityTotal
```

## Inheritance

[object](#) ← ActivityTotal

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## AchievementCount

The total number of achievements in the considered activities.

```
[JsonPropertyName("achievement_count")]
public int AchievementCount { get; set; }
```

## Property Value

[int](#)

## Count

The number of activities considered in this total.

```
[JsonPropertyName("count")]
public int Count { get; set; }
```

## Property Value

[int ↗](#)

## Distance

The total distance covered by the considered activities (in meters).

```
[JsonPropertyName("distance")]
public float Distance { get; set; }
```

## Property Value

[float ↗](#)

## Elapsed Time

The total elapsed time of the considered activities (in seconds).

```
[JsonPropertyName("elapsed_time")]
public int ElapsedTime { get; set; }
```

## Property Value

[int ↗](#)

## Elevation Gain

The total elevation gain of the considered activities (in meters).

```
[JsonPropertyName("elevation_gain")]
public float ElevationGain { get; set; }
```

## Property Value

[float ↗](#)

## MovingTime

The total moving time of the considered activities (in seconds).

```
[JsonPropertyName("moving_time")]
public int MovingTime { get; set; }
```

Property Value

[int ↗](#)

# Class ActivityZone

Namespace: [StravaAPILibrary.Models](#)

Assembly: StravaAPILibrary.dll

Represents an activity zone, such as heart rate or power, including its score, distribution, and related data.

```
public class ActivityZone
```

## Inheritance

[object](#) ← ActivityZone

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## CustomZones

Indicates if custom zones were used.

```
public bool CustomZones { get; set; }
```

## Property Value

[bool](#)

## DistributionBuckets

The time distribution buckets for this zone. Each bucket represents the time spent in a specific range.

```
public List<TimedZoneDistribution> DistributionBuckets { get; set; }
```

## Property Value

## Max

The maximum value recorded in this zone.

```
public int Max { get; set; }
```

### Property Value

[int](#)

## Points

The number of points in this zone.

```
public int Points { get; set; }
```

### Property Value

[int](#)

## Score

The score achieved in this zone.

```
public int Score { get; set; }
```

### Property Value

[int](#)

## SensorBased

Indicates whether the zone data is sensor-based.

```
public bool SensorBased { get; set; }
```

Property Value

[bool](#) ↗

Type

The type of the activity zone. Valid values: "heartrate" or "power".

```
public string Type { get; set; }
```

Property Value

[string](#) ↗

# Class Comment

Namespace: [StravaAPILibrary.Models](#)

Assembly: StravaAPILibrary.dll

Represents a comment made on an activity.

```
public class Comment
```

## Inheritance

[object](#) ← Comment

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## ActivityId

The identifier of the activity this comment is related to.

```
public long ActivityId { get; set; }
```

## Property Value

[long](#)

## Athlete

The athlete who made the comment.

```
public SummaryAthlete Athlete { get; set; }
```

## Property Value

## [SummaryAthlete](#)

### CreatedAt

The time at which this comment was created.

```
public DateTime CreatedAt { get; set; }
```

### Property Value

[DateTime](#)

### Id

The unique identifier of this comment.

```
public long Id { get; set; }
```

### Property Value

[long](#)

### Text

The content of the comment.

```
public string Text { get; set; }
```

### Property Value

[string](#)

# Class Error

Namespace: [StravaAPILibrary.Models](#)

Assembly: StravaAPILibrary.dll

Represents an error returned from the Strava API.

```
public class Error
```

## Inheritance

[object](#) ← Error

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Code

The code associated with this error.

```
public string Code { get; set; }
```

## Property Value

[string](#)

## Field

The specific field or aspect of the resource associated with this error.

```
public string Field { get; set; }
```

## Property Value

[string](#) ↗

## Resource

The type of resource associated with this error.

```
public string Resource { get; set; }
```

## Property Value

[string](#) ↗

# Class Fault

Namespace: [StravaAPILibrary.Models](#)

Assembly: StravaAPILibrary.dll

Represents a fault response from the Strava API, including a message and associated errors.

```
public class Fault
```

## Inheritance

[object](#) ← Fault

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Errors

The set of specific errors associated with this fault, if any.

```
public List<Error> Errors { get; set; }
```

## Property Value

[List](#)<[Error](#)>

## Message

The message of the fault.

```
public string Message { get; set; }
```

## Property Value

[string](#) ↗

# Class TimedZoneDistribution

Namespace: [StravaAPILibary.Models](#)

Assembly: StravaAPILibary.dll

Represents a collection of exclusive ranges (zones) and the time spent in each.

```
public class TimedZoneDistribution
```

## Inheritance

[object](#) ← TimedZoneDistribution

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Zones

The list of timed zone ranges.

```
public List<TimedZoneRange> Zones { get; set; }
```

## Property Value

[List](#)<[TimedZoneRange](#)>

# Class TimedZoneRange

Namespace: [StravaAPILibrary.Models](#)

Assembly: StravaAPILibrary.dll

Represents the time spent in a specific zone range.

```
public class TimedZoneRange
```

## Inheritance

[object](#) ← TimedZoneRange

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Max

The maximum value in the range.

```
public int Max { get; set; }
```

### Property Value

[int](#)

## Min

The minimum value in the range.

```
public int Min { get; set; }
```

### Property Value

[int ↗](#)

## Time

The number of seconds spent in this zone.

```
public int Time { get; set; }
```

Property Value

[int ↗](#)

# Namespace StravaAPILibary.Models.Activities

## Classes

### [DetailedActivity](#)

Represents a detailed Strava activity with extensive metadata, statistics, and related objects.

### [Lap](#)

Represents a single lap within an activity.

### [MetaActivity](#)

Represents a minimal reference to an activity.

### [Split](#)

Represents a split of an activity, typically used for running activities.

### [SummaryActivity](#)

Represents a summarized Strava activity with key performance and metadata fields.

### [UpdatableActivity](#)

Represents an updatable activity in Strava.

# Class DetailedActivity

Namespace: [StravaAPILibrary.Models.Activities](#)

Assembly: StravaAPILibrary.dll

Represents a detailed Strava activity with extensive metadata, statistics, and related objects.

```
public class DetailedActivity
```

## Inheritance

[object](#) ← DetailedActivity

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## AchievementCount

The number of achievements gained during this activity.

```
public int AchievementCount { get; set; }
```

## Property Value

[int](#)

## Athlete

The athlete associated with this activity.

```
public MetaAthlete Athlete { get; set; }
```

## Property Value

## AthleteCount

The number of athletes participating in this activity.

```
public int AthleteCount { get; set; }
```

Property Value

[int](#)

## AverageSpeed

The average speed in meters per second.

```
public float AverageSpeed { get; set; }
```

Property Value

[float](#)

## AverageWatts

Average power output in watts (rides only).

```
public float? AverageWatts { get; set; }
```

Property Value

[float](#)?

## BestEfforts

Best efforts during this activity.

```
public List<DetailedSegmentEffort>? BestEfforts { get; set; }
```

## Property Value

[List](#) <[DetailedSegmentEffort](#)>

## Calories

Calories burned during the activity.

```
public float? Calories { get; set; }
```

## Property Value

[float](#)?

## CommentCount

The number of comments for this activity.

```
public int CommentCount { get; set; }
```

## Property Value

[int](#)

## Commute

Whether this activity is a commute.

```
public bool Commute { get; set; }
```

## Property Value

[bool](#)

## Description

Description of the activity.

```
public string? Description { get; set; }
```

### PropertyValue

[string](#) ↗

## DeviceName

The device used to record this activity.

```
public string? DeviceName { get; set; }
```

### PropertyValue

[string](#) ↗

## DeviceWatts

Whether the watts are from a power meter (false if estimated).

```
public bool? DeviceWatts { get; set; }
```

### PropertyValue

[bool](#) ↗?

## Distance

The activity's distance in meters.

```
public float Distance { get; set; }
```

Property Value

[float](#)

## ElapsedTime

The activity's elapsed time in seconds.

```
public int ElapsedTime { get; set; }
```

Property Value

[int](#)

## ElevHigh

The activity's highest elevation in meters.

```
public float ElevHigh { get; set; }
```

Property Value

[float](#)

## ElevLow

The activity's lowest elevation in meters.

```
public float ElevLow { get; set; }
```

Property Value

[float](#)

## EmbedToken

The token used to embed this activity.

```
public string? EmbedToken { get; set; }
```

Property Value

[string](#)

## EndLatLng

The end latitude/longitude of the activity.

```
public LatLng? EndLatLng { get; set; }
```

Property Value

[LatLng](#)

## ExternalId

The identifier provided at upload time.

```
public string? ExternalId { get; set; }
```

Property Value

[string](#)

## Flagged

Whether this activity is flagged.

```
public bool Flagged { get; set; }
```

Property Value

[bool](#)

## Gear

Gear summary used during the activity.

```
public SummaryGear? Gear { get; set; }
```

### Property Value

[SummaryGear](#)

## GearId

The gear ID used for this activity.

```
public string? GearId { get; set; }
```

### Property Value

[string](#)

## HasKudoed

Whether the logged-in athlete has kudoed this activity.

```
public bool HasKudoed { get; set; }
```

### Property Value

[bool](#)

## HideFromHome

Whether this activity is muted in the home feed.

```
public bool HideFromHome { get; set; }
```

Property Value

[bool](#)

**Id**

The unique identifier of the activity.

```
public long Id { get; set; }
```

Property Value

[long](#)

**Kilojoules**

The total work done in kilojoules during this activity (rides only).

```
public float? Kilojoules { get; set; }
```

Property Value

[float](#)

**KudosCount**

The number of kudos given for this activity.

```
public int KudosCount { get; set; }
```

Property Value

[int](#)

## Laps

Laps of the activity.

```
public List<Lap>? Laps { get; set; }
```

### Property Value

[List](#) <[Lap](#)>

## Manual

Whether this activity was created manually.

```
public bool Manual { get; set; }
```

### Property Value

[bool](#)

## Map

The map associated with this activity.

```
public PolylineMap Map { get; set; }
```

### Property Value

[PolylineMap](#)

## MaxSpeed

The maximum speed in meters per second.

```
public float MaxSpeed { get; set; }
```

Property Value

[float](#)

## MaxWatts

Maximum power in watts (rides with power meter only).

```
public int? MaxWatts { get; set; }
```

Property Value

[int](#)?

## MovingTime

The activity's moving time in seconds.

```
public int MovingTime { get; set; }
```

Property Value

[int](#)

## Name

The name of the activity.

```
public string Name { get; set; }
```

Property Value

[string](#)

## PhotoCount

The number of Instagram photos for this activity.

```
public int PhotoCount { get; set; }
```

Property Value

[int ↗](#)

## Photos

Photos associated with the activity.

```
public PhotosSummary? Photos { get; set; }
```

Property Value

[PhotosSummary](#)

## Private

Whether this activity is private.

```
public bool Private { get; set; }
```

Property Value

[bool ↗](#)

## SegmentEfforts

Segment efforts during this activity.

```
public List<DetailedSegmentEffort> SegmentEfforts { get; set; }
```

Property Value

[List](#) <[DetailedSegmentEffort](#)>

## SplitsMetric

Splits of the activity in metric units (for runs).

```
public List<Split>? SplitsMetric { get; set; }
```

Property Value

[List](#) <[Split](#)>

## SplitsStandard

Splits of the activity in imperial units (for runs).

```
public List<Split>? SplitsStandard { get; set; }
```

Property Value

[List](#) <[Split](#)>

## SportType

The sport type of the activity.

```
public SportType SportType { get; set; }
```

Property Value

[SportType](#)

## StartDate

The UTC time when the activity was started.

```
public DateTime StartDate { get; set; }
```

Property Value

[DateTime](#)

## StartDateLocal

The local time when the activity was started.

```
public DateTime StartDateLocal { get; set; }
```

Property Value

[DateTime](#)

## StartLatLng

The start latitude/longitude of the activity.

```
public LatLng? StartLatLng { get; set; }
```

Property Value

[LatLng](#)

## Timezone

The timezone of the activity.

```
public string Timezone { get; set; }
```

Property Value

[string](#)

## TotalElevationGain

The activity's total elevation gain in meters.

```
public float TotalElevationGain { get; set; }
```

Property Value

[float](#) ↗

## TotalPhotoCount

The total number of photos (Instagram + Strava) for this activity.

```
public int TotalPhotoCount { get; set; }
```

Property Value

[int](#) ↗

## Trainer

Whether this activity was recorded on a training machine.

```
public bool Trainer { get; set; }
```

Property Value

[bool](#) ↗

## Type

Deprecated. Prefer to use [SportType](#).

```
public ActivityType Type { get; set; }
```

## PropertyValue

[ActivityType](#)

## UploadId

The identifier of the upload that resulted in this activity.

```
public long UploadId { get; set; }
```

## PropertyValue

[long](#)

## UploadIdStr

The upload identifier in string format.

```
public string? UploadIdStr { get; set; }
```

## PropertyValue

[string](#)

## WeightedAverageWatts

Weighted average watts (Normalized Power) for rides with power data.

```
public int? WeightedAverageWatts { get; set; }
```

## PropertyValue

[int](#)?

## WorkoutType

The workout type of the activity.

```
public int? WorkoutType { get; set; }
```

Property Value

[int](#)?

# Class Lap

Namespace: [StravaAPILibrary.Models.Activities](#)

Assembly: StravaAPILibrary.dll

Represents a single lap within an activity.

```
public class Lap
```

## Inheritance

[object](#) ← Lap

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Activity

The activity associated with this lap.

```
public MetaActivity Activity { get; set; }
```

## Property Value

[MetaActivity](#)

## Athlete

The athlete associated with this lap.

```
public MetaAthlete Athlete { get; set; }
```

## Property Value

## AverageCadence

The lap's average cadence.

```
public float AverageCadence { get; set; }
```

### Property Value

[float](#)

## AverageSpeed

The lap's average speed.

```
public float AverageSpeed { get; set; }
```

### Property Value

[float](#)

## Distance

The lap's distance, in meters.

```
public float Distance { get; set; }
```

### Property Value

[float](#)

## Elapsed Time

The lap's elapsed time, in seconds.

```
public int ElapsedTime { get; set; }
```

Property Value

[int ↗](#)

## EndIndex

The end index of this lap in the activity's stream.

```
public int EndIndex { get; set; }
```

Property Value

[int ↗](#)

## Id

The unique identifier of this lap.

```
public long Id { get; set; }
```

Property Value

[long ↗](#)

## LapIndex

The index of this lap in the activity it belongs to.

```
public int LapIndex { get; set; }
```

Property Value

[int ↗](#)

## MaxSpeed

The maximum speed during this lap, in meters per second.

```
public float MaxSpeed { get; set; }
```

Property Value

[float](#)

## MovingTime

The lap's moving time, in seconds.

```
public int MovingTime { get; set; }
```

Property Value

[int](#)

## Name

The name of the lap.

```
public string Name { get; set; }
```

Property Value

[string](#)

## PaceZone

The athlete's pace zone during this lap.

```
public int PaceZone { get; set; }
```

## PropertyValue

[int ↗](#)

## Split

The split number for this lap.

```
public int Split { get; set; }
```

## PropertyValue

[int ↗](#)

## StartDate

The time at which the lap was started.

```
public DateTime StartDate { get; set; }
```

## PropertyValue

[DateTime ↗](#)

## StartDateLocal

The time at which the lap was started in the local timezone.

```
public DateTime StartDateLocal { get; set; }
```

## PropertyValue

[DateTime ↗](#)

## StartIndex

The start index of this lap in the activity's stream.

```
public int StartIndex { get; set; }
```

Property Value

[int](#)

## TotalElevationGain

The elevation gain of this lap, in meters.

```
public float TotalElevationGain { get; set; }
```

Property Value

[float](#)

# Class MetaActivity

Namespace: [StravaAPILibary.Models.Activities](#)

Assembly: StravaAPILibary.dll

Represents a minimal reference to an activity.

```
public class MetaActivity
```

## Inheritance

[object](#) ← MetaActivity

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Id

The unique identifier of the activity.

```
public long Id { get; set; }
```

## Property Value

[long](#)

# Class Split

Namespace: [StravaAPILibrary.Models.Activities](#)

Assembly: StravaAPILibrary.dll

Represents a split of an activity, typically used for running activities.

```
public class Split
```

## Inheritance

[object](#) ← Split

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## AverageSpeed

The average speed of this split, in meters per second.

```
public float AverageSpeed { get; set; }
```

## Property Value

[float](#)

## Distance

The distance of this split, in meters.

```
public float Distance { get; set; }
```

## Property Value

[float](#)

## ElapsedTime

The elapsed time of this split, in seconds.

```
public int ElapsedTime { get; set; }
```

Property Value

[int](#)

## ElevationDifference

The elevation difference of this split, in meters.

```
public float ElevationDifference { get; set; }
```

Property Value

[float](#)

## MovingTime

The moving time of this split, in seconds.

```
public int MovingTime { get; set; }
```

Property Value

[int](#)

## PaceZone

The pacing zone of this split.

```
public int PaceZone { get; set; }
```

Property Value

[int ↗](#)

## SplitIndex

The index number of this split.

```
public int SplitIndex { get; set; }
```

Property Value

[int ↗](#)

# Class SummaryActivity

Namespace: [StravaAPILibrary.Models.Activities](#)

Assembly: StravaAPILibrary.dll

Represents a summarized Strava activity with key performance and metadata fields.

```
public class SummaryActivity
```

## Inheritance

[object](#) ← SummaryActivity

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## AchievementCount

The number of achievements gained during this activity.

```
public int AchievementCount { get; set; }
```

## Property Value

[int](#)

## Athlete

The athlete who performed this activity.

```
public MetaAthlete? Athlete { get; set; }
```

## Property Value

## AthleteCount

The number of athletes participating in this activity (group activities).

```
public int AthleteCount { get; set; }
```

Property Value

[int](#)

## AverageSpeed

The average speed of this activity, in meters per second.

```
public float AverageSpeed { get; set; }
```

Property Value

[float](#)

## AverageWatts

The average power output in watts (rides only).

```
public float? AverageWatts { get; set; }
```

Property Value

[float](#)?

## CommentCount

The number of comments on this activity.

```
public int CommentCount { get; set; }
```

Property Value

[int](#)

## Commute

Indicates whether this activity is a commute.

```
public bool Commute { get; set; }
```

Property Value

[bool](#)

## DeviceWatts

Indicates whether the power data is from a power meter (true) or estimated (false).

```
public bool? DeviceWatts { get; set; }
```

Property Value

[bool](#)

## Distance

The activity's distance, in meters.

```
public float Distance { get; set; }
```

Property Value

[float](#)

## ElapsedTime

The activity's elapsed time, in seconds.

```
public int ElapsedTime { get; set; }
```

Property Value

[int](#)

## ElevHigh

The highest elevation reached during the activity, in meters.

```
public float ElevHigh { get; set; }
```

Property Value

[float](#)

## ElevLow

The lowest elevation reached during the activity, in meters.

```
public float ElevLow { get; set; }
```

Property Value

[float](#)

## EndLatLng

The end latitude/longitude of the activity.

```
public LatLng? EndLatLng { get; set; }
```

## Property Value

[LatLng](#)

## ExternalId

The identifier provided at upload time.

```
public string? ExternalId { get; set; }
```

## Property Value

[string](#)

## Flagged

Indicates whether this activity was flagged.

```
public bool Flagged { get; set; }
```

## Property Value

[bool](#)

## GearId

The gear ID associated with this activity.

```
public string? GearId { get; set; }
```

## Property Value

[string](#)

## HasKudoed

Indicates whether the authenticated athlete has given kudos to this activity.

```
public bool HasKudoed { get; set; }
```

Property Value

[bool](#)

## HideFromHome

Indicates whether the activity is muted (hidden from home feed).

```
public bool HideFromHome { get; set; }
```

Property Value

[bool](#)

## Id

The unique identifier of the activity.

```
public long Id { get; set; }
```

Property Value

[long](#)

## Kilojoules

The total work done in kilojoules during this activity (rides only).

```
public float? Kilojoules { get; set; }
```

Property Value

[float](#)?

## KudosCount

The number of kudos given for this activity.

```
public int KudosCount { get; set; }
```

## Property Value

[int](#)

## Manual

Indicates whether this activity was created manually.

```
public bool Manual { get; set; }
```

## Property Value

[bool](#)

## Map

The map information associated with this activity.

```
public PolylineMap? Map { get; set; }
```

## Property Value

[PolylineMap](#)

## MaxSpeed

The maximum speed of this activity, in meters per second.

```
public float MaxSpeed { get; set; }
```

Property Value

[float](#)

## MaxWatts

The maximum power output during this activity (rides with power meter only).

```
public int? MaxWatts { get; set; }
```

Property Value

[int](#)?

## MovingTime

The activity's moving time, in seconds.

```
public int MovingTime { get; set; }
```

Property Value

[int](#)

## Name

The name of the activity.

```
public string Name { get; set; }
```

Property Value

[string](#)

## PhotoCount

The number of Instagram photos for this activity.

```
public int PhotoCount { get; set; }
```

Property Value

[int](#)

## Private

Indicates whether this activity is private.

```
public bool Private { get; set; }
```

Property Value

[bool](#)

## SportType

The sport type of the activity.

```
public SportType SportType { get; set; }
```

Property Value

[SportType](#)

## StartDate

The time at which the activity was started (UTC).

```
public DateTime StartDate { get; set; }
```

Property Value

[DateTime](#)

## StartDateLocal

The local time at which the activity was started.

```
public DateTime StartDateLocal { get; set; }
```

Property Value

[DateTime](#)

## StartLatLng

The start latitude/longitude of the activity.

```
public LatLng? StartLatLng { get; set; }
```

Property Value

[LatLng](#)

## Timezone

The timezone of the activity.

```
public string Timezone { get; set; }
```

Property Value

[string](#)

## TotalElevationGain

The total elevation gain of the activity, in meters.

```
public float TotalElevationGain { get; set; }
```

Property Value

[float ↗](#)

## TotalPhotoCount

The total number of Instagram and Strava photos for this activity.

```
public int TotalPhotoCount { get; set; }
```

Property Value

[int ↗](#)

## Trainer

Indicates whether this activity was recorded on a training machine.

```
public bool Trainer { get; set; }
```

Property Value

[bool ↗](#)

## Type

The deprecated activity type. Prefer [SportType](#).

```
public ActivityType? Type { get; set; }
```

Property Value

## ActivityType?

### UploadId

The identifier of the upload that resulted in this activity.

```
public long? UploadId { get; set; }
```

#### Property Value

[long](#)?

### UploadIdStr

The unique identifier of the upload in string format.

```
public string? UploadIdStr { get; set; }
```

#### Property Value

[string](#)?

### WeightedAverageWatts

Similar to Normalized Power, rides with power meter data only.

```
public int? WeightedAverageWatts { get; set; }
```

#### Property Value

[int](#)?

### WorkoutType

The workout type of this activity.

```
public int? WorkoutType { get; set; }
```

Property Value

int?

# Class UpdatableActivity

Namespace: [StravaAPILibrary.Models.Activities](#)

Assembly: StravaAPILibrary.dll

Represents an updatable activity in Strava.

```
public class UpdatableActivity
```

## Inheritance

[object](#) ← UpdatableActivity

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

### Commute

Indicates whether this activity is a commute.

```
public bool Commute { get; set; }
```

### Property Value

[bool](#)

### Description

The description of the activity.

```
public string Description { get; set; }
```

### Property Value

[string](#)

## GearId

Identifier for the gear associated with the activity. Use 'none' to clear gear from activity.

```
public string GearId { get; set; }
```

## Property Value

[string](#)

## HideFromHome

Indicates whether this activity is muted (hidden from home feed).

```
public bool HideFromHome { get; set; }
```

## Property Value

[bool](#)

## Name

The name of the activity.

```
public string Name { get; set; }
```

## Property Value

[string](#)

## SportType

The sport type of the activity.

```
public SportType SportType { get; set; }
```

Property Value

[SportType](#)

## Trainer

Indicates whether this activity was recorded on a training machine.

```
public bool Trainer { get; set; }
```

Property Value

[bool](#) ↗

## Type

The deprecated activity type. Prefer to use [SportType](#).

```
public ActivityType? Type { get; set; }
```

Property Value

[ActivityType?](#)

# Namespace StravaAPILibary.Models.Athletes

## Classes

### [DetailedAthlete](#)

Represents a detailed athlete profile with extensive personal, equipment, and club data.

### [MetaAthlete](#)

Represents a minimal athlete object containing only the athlete's ID.

### [SummaryAthlete](#)

Represents a summary of an athlete with profile and location details.

# Class DetailedAthlete

Namespace: [StravaAPILibrary.Models.Athletes](#)

Assembly: StravaAPILibrary.dll

Represents a detailed athlete profile with extensive personal, equipment, and club data.

```
public class DetailedAthlete
```

## Inheritance

[object](#) ← DetailedAthlete

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Bikes

The bikes owned by the athlete.

```
public List<SummaryGear> Bikes { get; set; }
```

## Property Value

[List](#)<[SummaryGear](#)>

## City

The athlete's city.

```
public string? City { get; set; }
```

## Property Value

[string](#)

## Clubs

The clubs the athlete is a member of.

```
public List<SummaryClub> Clubs { get; set; }
```

### Property Value

[List](#) <[SummaryClub](#)>

## Country

The athlete's country.

```
public string? Country { get; set; }
```

### Property Value

[string](#)

## CreatedAt

The time at which the athlete was created.

```
public DateTime CreatedAt { get; set; }
```

### Property Value

[DateTime](#)

## FirstName

The athlete's first name.

```
public string FirstName { get; set; }
```

Property Value

[string](#)

## FollowerCount

The athlete's follower count.

```
public int FollowerCount { get; set; }
```

Property Value

[int](#)

## FriendCount

The athlete's friend count.

```
public int FriendCount { get; set; }
```

Property Value

[int](#)

## Ftp

The athlete's Functional Threshold Power (FTP).

```
public int? Ftp { get; set; }
```

Property Value

[int](#)?

## Id

The unique identifier of the athlete.

```
public long Id { get; set; }
```

## Property Value

[long](#)

## LastName

The athlete's last name.

```
public string LastName { get; set; }
```

## Property Value

[string](#)

## MeasurementPreference

The athlete's preferred unit system. May take one of the following values: "feet", "meters".

```
public string MeasurementPreference { get; set; }
```

## Property Value

[string](#)

## Premium

Deprecated. Use [Summit](#) instead. Whether the athlete has any Summit subscription.

```
public bool Premium { get; set; }
```

## PropertyValue

[bool](#) ↗

## Profile

URL to a 124x124 pixel profile picture.

```
public string Profile { get; set; }
```

## PropertyValue

[string](#) ↗

## ProfileMedium

URL to a 62x62 pixel profile picture.

```
public string ProfileMedium { get; set; }
```

## PropertyValue

[string](#) ↗

## ResourceState

Resource state, indicates level of detail. Possible values: 1 -> "meta", 2 -> "summary", 3 -> "detail".

```
public int ResourceState { get; set; }
```

## PropertyValue

[int](#) ↗

## Sex

The athlete's sex. May take one of the following values: "M", "F".

```
public string? Sex { get; set; }
```

Property Value

[string](#)

## Shoes

The shoes owned by the athlete.

```
public List<SummaryGear> Shoes { get; set; }
```

Property Value

[List](#) <[SummaryGear](#)>

## State

The athlete's state or geographical region.

```
public string? State { get; set; }
```

Property Value

[string](#)

## Summit

Whether the athlete has any Summit subscription.

```
public bool Summit { get; set; }
```

Property Value

[bool](#)

## UpdatedAt

The time at which the athlete was last updated.

```
public DateTime UpdatedAt { get; set; }
```

## Property Value

[DateTime](#)

## Weight

The athlete's weight.

```
public float? Weight { get; set; }
```

## Property Value

[float](#)?

# Class MetaAthlete

Namespace: [StravaAPILibary.Models.Athletes](#)

Assembly: StravaAPILibary.dll

Represents a minimal athlete object containing only the athlete's ID.

```
public class MetaAthlete
```

## Inheritance

[object](#) ← MetaAthlete

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Id

The unique identifier of the athlete.

```
public long Id { get; set; }
```

## Property Value

[long](#)

# Class SummaryAthlete

Namespace: [StravaAPILibrary.Models.Athletes](#)

Assembly: StravaAPILibrary.dll

Represents a summary of an athlete with profile and location details.

```
public class SummaryAthlete
```

## Inheritance

[object](#) ← SummaryAthlete

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## City

The athlete's city.

```
public string City { get; set; }
```

## Property Value

[string](#)

## Country

The athlete's country.

```
public string Country { get; set; }
```

## Property Value

[string](#)

## CreatedAt

The time at which the athlete was created.

```
public DateTime CreatedAt { get; set; }
```

### Property Value

[DateTime](#)

## Firstname

The athlete's first name.

```
public string Firstname { get; set; }
```

### Property Value

[string](#)

## Id

The unique identifier of the athlete.

```
public long Id { get; set; }
```

### Property Value

[long](#)

## Lastname

The athlete's last name.

```
public string Lastname { get; set; }
```

## Property Value

[string](#)

## Premium

Deprecated. Use Summit field instead. Whether the athlete has any Summit subscription.

```
public bool Premium { get; set; }
```

## Property Value

[bool](#)

## Profile

URL to a 124x124 pixel profile picture.

```
public string Profile { get; set; }
```

## Property Value

[string](#)

## ProfileMedium

URL to a 62x62 pixel profile picture.

```
public string ProfileMedium { get; set; }
```

## Property Value

[string](#)

## ResourceState

Resource state, indicates level of detail. Possible values: 1 (meta), 2 (summary), 3 (detail).

```
public int ResourceState { get; set; }
```

### Property Value

[int ↗](#)

## Sex

The athlete's sex. M = Male, F = Female.

```
public string Sex { get; set; }
```

### Property Value

[string ↗](#)

## State

The athlete's state or geographical region.

```
public string State { get; set; }
```

### Property Value

[string ↗](#)

## Summit

Whether the athlete has any Summit subscription.

```
public bool Summit { get; set; }
```

Property Value

[bool](#) ↗

## UpdatedAt

The time at which the athlete was last updated.

```
public DateTime UpdatedAt { get; set; }
```

Property Value

[DateTime](#) ↗

# Namespace StravaAPILibary.Models.Clubs

## Classes

### [ClubActivity](#)

Represents an activity within a club.

### [ClubAthlete](#)

Represents an athlete within a club.

### [DetailedClub](#)

Represents detailed information about a club.

### [MetaClub](#)

Represents a meta-level summary of a club in Strava.

### [SummaryClub](#)

Represents a summary of a Strava club with basic metadata and membership information.

# Class ClubActivity

Namespace: [StravaAPILibrary.Models.Clubs](#)

Assembly: StravaAPILibrary.dll

Represents an activity within a club.

```
public class ClubActivity
```

## Inheritance

[object](#) ← ClubActivity

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Athlete

The athlete who performed the activity.

```
public MetaAthlete Athlete { get; set; }
```

### Property Value

[MetaAthlete](#)

## Distance

The activity's distance in meters.

```
public float Distance { get; set; }
```

### Property Value

[float](#)

## ElapsedTime

The activity's elapsed time in seconds.

```
public int ElapsedTime { get; set; }
```

### Property Value

[int](#)

## MovingTime

The activity's moving time in seconds.

```
public int MovingTime { get; set; }
```

### Property Value

[int](#)

## Name

The name of the activity.

```
public string Name { get; set; }
```

### Property Value

[string](#)

## SportType

The sport type of the activity.

```
public SportType SportType { get; set; }
```

Property Value

[SportType](#)

## TotalElevationGain

The activity's total elevation gain in meters.

```
public float TotalElevationGain { get; set; }
```

Property Value

[float](#)

## Type

The type of the activity. (Deprecated - prefer SportType)

```
public ActivityType Type { get; set; }
```

Property Value

[ActivityType](#)

## WorkoutType

The activity's workout type.

```
public int WorkoutType { get; set; }
```

Property Value

[int](#)

# Class ClubAthlete

Namespace: [StravaAPILibary.Models.Clubs](#)

Assembly: StravaAPILibary.dll

Represents an athlete within a club.

```
public class ClubAthlete
```

## Inheritance

[object](#) ← ClubAthlete

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Admin

Whether the athlete is a club admin.

```
public bool Admin { get; set; }
```

## Property Value

[bool](#)

## FirstName

The athlete's first name.

```
public string FirstName { get; set; }
```

## Property Value

[string](#)

## LastName

The athlete's last initial.

```
public string LastName { get; set; }
```

## Property Value

[string](#)

## Member

The athlete's member status.

```
public string Member { get; set; }
```

## Property Value

[string](#)

## Owner

Whether the athlete is the club owner.

```
public bool Owner { get; set; }
```

## Property Value

[bool](#)

## ResourceState

Resource state, indicates level of detail. 1 -> meta, 2 -> summary, 3 -> detail.

```
public int ResourceState { get; set; }
```

Property Value

[int ↗](#)

# Class DetailedClub

Namespace: [StravaAPILibary.Models.Clubs](#)

Assembly: StravaAPILibary.dll

Represents detailed information about a club.

```
public class DetailedClub
```

## Inheritance

[object](#) ← DetailedClub

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## ActivityTypes

The activity types that count for a club. This takes precedence over [SportType](#).

```
public List<ActivityType> ActivityTypes { get; set; }
```

## Property Value

[List](#) <[ActivityType](#)>

## Admin

Whether the currently logged-in athlete is an administrator of this club.

```
public bool Admin { get; set; }
```

## Property Value

[bool](#)

## City

The club's city.

```
public string? City { get; set; }
```

### Property Value

[string](#)

## Country

The club's country.

```
public string? Country { get; set; }
```

### Property Value

[string](#)

## CoverPhoto

URL to a ~1185x580 pixel cover photo.

```
public string CoverPhoto { get; set; }
```

### Property Value

[string](#)

## CoverPhotoSmall

URL to a ~360x176 pixel cover photo.

```
public string CoverPhotoSmall { get; set; }
```

Property Value

[string](#)

## Featured

Whether the club is featured or not.

```
public bool Featured { get; set; }
```

Property Value

[bool](#)

## FollowingCount

The number of athletes in the club that the logged-in athlete follows.

```
public int FollowingCount { get; set; }
```

Property Value

[int](#)

## Id

The club's unique identifier.

```
public long Id { get; set; }
```

Property Value

[long](#)

## MemberCount

The club's member count.

```
public int MemberCount { get; set; }
```

### Property Value

[int](#)

## Membership

The membership status of the logged-in athlete. May take values: "member", "pending".

```
public string? Membership { get; set; }
```

### Property Value

[string](#)

## Name

The club's name.

```
public string Name { get; set; }
```

### Property Value

[string](#)

## Owner

Whether the currently logged-in athlete is the owner of this club.

```
public bool Owner { get; set; }
```

## Property Value

[bool](#) ↗

## Private

Whether the club is private.

```
public bool Private { get; set; }
```

## Property Value

[bool](#) ↗

## ProfileMedium

URL to a 60x60 pixel profile picture.

```
public string ProfileMedium { get; set; }
```

## Property Value

[string](#) ↗

## ResourceState

Resource state, indicates level of detail. Possible values: 1 -> "meta", 2 -> "summary", 3 -> "detail".

```
public int ResourceState { get; set; }
```

## Property Value

[int](#) ↗

## SportType

Deprecated. Prefer to use [ActivityTypes](#). May take values: cycling, running, triathlon, other.

```
public string? SportType { get; set; }
```

## Property Value

[string](#)

## State

The club's state or geographical region.

```
public string? State { get; set; }
```

## Property Value

[string](#)

## Url

The club's vanity URL.

```
public string Url { get; set; }
```

## Property Value

[string](#)

## Verified

Whether the club is verified or not.

```
public bool Verified { get; set; }
```

## Property Value

bool ↗

# Class MetaClub

Namespace: [StravaAPILibary.Models.Clubs](#)

Assembly: StravaAPILibary.dll

Represents a meta-level summary of a club in Strava.

```
public class MetaClub
```

## Inheritance

[object](#) ← MetaClub

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Id

The club's unique identifier.

```
public long Id { get; set; }
```

## Property Value

[long](#)

## Name

The club's name.

```
public string Name { get; set; }
```

## Property Value

[string](#)

## ResourceState

Resource state, indicates level of detail. Possible values: 1 -> "meta", 2 -> "summary", 3 -> "detail".

```
public int ResourceState { get; set; }
```

Property Value

[int](#)

# Class SummaryClub

Namespace: [StravaAPILibrary.Models.Clubs](#)

Assembly: StravaAPILibrary.dll

Represents a summary of a Strava club with basic metadata and membership information.

```
public class SummaryClub
```

## Inheritance

[object](#) ← SummaryClub

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## ActivityTypes

The activity types that count for a club. This takes precedence over [SportType](#).

```
public List<ActivityType>? ActivityTypes { get; set; }
```

## Property Value

[List](#)<[ActivityType](#)>

## City

The club's city.

```
public string? City { get; set; }
```

## Property Value

[string](#)

## Country

The club's country.

```
public string? Country { get; set; }
```

## Property Value

[string](#)

## CoverPhoto

URL to a ~1185x580 pixel cover photo.

```
public string? CoverPhoto { get; set; }
```

## Property Value

[string](#)

## CoverPhotoSmall

URL to a ~360x176 pixel cover photo.

```
public string? CoverPhotoSmall { get; set; }
```

## Property Value

[string](#)

## Featured

Indicates whether the club is featured.

```
public bool Featured { get; set; }
```

Property Value

[bool](#)

Id

The club's unique identifier.

```
public long Id { get; set; }
```

Property Value

[long](#)

MemberCount

The club's member count.

```
public int MemberCount { get; set; }
```

Property Value

[int](#)

Name

The club's name.

```
public string Name { get; set; }
```

Property Value

[string](#)

## Private

Indicates whether the club is private.

```
public bool Private { get; set; }
```

## Property Value

[bool](#)

## ProfileMedium

URL to a 60x60 pixel profile picture.

```
public string? ProfileMedium { get; set; }
```

## Property Value

[string](#)

## ResourceState

Resource state, indicates level of detail. Possible values: 1 -> meta, 2 -> summary, 3 -> detail.

```
public int ResourceState { get; set; }
```

## Property Value

[int](#)

## SportType

Deprecated. Prefer to use [ActivityTypes](#). May take one of the following values: cycling, running, triathlon, other.

```
public string? SportType { get; set; }
```

## Property Value

[string](#) ↗

## State

The club's state or geographical region.

```
public string? State { get; set; }
```

## Property Value

[string](#) ↗

## Url

The club's vanity URL.

```
public string Url { get; set; }
```

## Property Value

[string](#) ↗

## Verified

Indicates whether the club is verified.

```
public bool Verified { get; set; }
```

## Property Value

[bool](#) ↗

# Namespace StravaAPILibary.Models.Common Classes

## [LatLng](#)

Represents a geographical coordinate as a pair of latitude and longitude.

# Class LatLng

Namespace: [StravaAPILibrary.Models.Common](#)

Assembly: StravaAPILibrary.dll

Represents a geographical coordinate as a pair of latitude and longitude.

```
public class LatLng
```

## Inheritance

[object](#) ← LatLng

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Constructors

### LatLng()

Initializes a new instance of [LatLng](#).

```
public LatLng()
```

### LatLng(float, float)

Initializes a new instance of [LatLng](#) with specified latitude and longitude.

```
public LatLng(float latitude, float longitude)
```

#### Parameters

**latitude** [float](#)

The latitude component.

**longitude** [float](#)

The longitude component.

## Properties

### Latitude

Latitude component of the coordinate.

```
public float Latitude { get; set; }
```

#### Property Value

[float](#)

### Longitude

Longitude component of the coordinate.

```
public float Longitude { get; set; }
```

#### Property Value

[float](#)

## Methods

### ToArray()

Returns the coordinate as an array of floats [latitude, longitude].

```
public float[] ToArray()
```

Returns

[float](#)[]

# Namespace StravaAPILibary.Models.Enums

## Enums

### [ActivityType](#)

Enumeration of the types an activity may have. Note: Does not include new sport types (e.g. MountainBikeRide).

### [SportType](#)

Enumeration of the sport types an activity may have. Unlike [ActivityType](#), this includes newer activity types such as MountainBikeRide.

# Enum ActivityType

Namespace: [StravaAPILibrary.Models.Enums](#)

Assembly: StravaAPILibrary.dll

Enumeration of the types an activity may have. Note: Does not include new sport types (e.g. MountainBikeRide).

```
public enum ActivityType
```

## Fields

**AlpineSki** = 0

Alpine skiing activity.

**BackcountrySki** = 1

Backcountry skiing activity.

**Canoeing** = 2

Canoeing activity.

**Crossfit** = 3

Crossfit training session.

**EBikeRide** = 4

E-bike ride activity.

**Elliptical** = 5

Elliptical trainer workout.

**Golf** = 6

Golf session.

**Handcycle** = 7

Handcycle ride.

**Hike** = 8

Hiking activity.

**IceSkate** = 9

Ice skating activity.

**InlineSkate** = 10

Inline skating activity.

**Kayaking** = 11

Kayaking activity.

**Kitesurf** = 12

Kitesurfing session.

**NordicSki** = 13

Nordic skiing activity.

**Ride** = 14

Standard bike ride.

**RockClimbing** = 15

Rock climbing activity.

**RollerSki** = 16

Roller skiing activity.

**Rowing** = 17

Rowing session.

**Run** = 18

Running activity.

**Sail** = 19

Sailing session.

**Skateboard = 20**

Skateboarding session.

**Snowboard = 21**

Snowboarding activity.

**Snowshoe = 22**

Snowshoeing activity.

**Soccer = 23**

Soccer game or practice.

**StairStepper = 24**

Stair stepper workout.

**StandUpPaddling = 25**

Stand-up paddling session.

**Surfing = 26**

Surfing session.

**Swim = 27**

Swimming activity.

**Velomobile = 28**

Velomobile ride.

**VirtualRide = 29**

Virtual ride on trainer or simulator.

**VirtualRun = 30**

Virtual run on treadmill or simulator.

**Walk = 31**

Walking activity.

**WeightTraining** = 32

Weight training session.

**Wheelchair** = 33

Wheelchair workout or ride.

**Windsurf** = 34

Windsurfing session.

**Workout** = 35

General workout session.

**Yoga** = 36

Yoga session.

# Enum SportType

Namespace: [StravaAPILibrary.Models.Enums](#)

Assembly: StravaAPILibrary.dll

Enumeration of the sport types an activity may have. Unlike [ActivityType](#), this includes newer activity types such as MountainBikeRide.

```
public enum SportType
```

## Fields

**AlpineSki** = 0

Alpine skiing activity.

**BackcountrySki** = 1

Backcountry skiing activity.

**Badminton** = 2

Badminton activity.

**Canoeing** = 3

Canoeing activity.

**Crossfit** = 4

Crossfit workout.

**EBikeRide** = 5

Electric bike ride.

**EMountainBikeRide** = 7

Electric mountain bike ride.

**Elliptical** = 6

Elliptical workout.

**Golf** = 8

Golf session.

**GravelRide** = 9

Gravel bike ride.

**Handcycle** = 10

Handcycling activity.

**HighIntensityIntervalTraining** = 11

High-intensity interval training.

**Hike** = 12

Hiking activity.

**IceSkate** = 13

Ice skating activity.

**InlineSkate** = 14

Inline skating activity.

**Kayaking** = 15

Kayaking activity.

**Kitesurf** = 16

Kitesurfing activity.

**MountainBikeRide** = 17

Mountain biking activity.

**NordicSki** = 18

Nordic skiing activity.

**Pickleball** = 19

Pickleball activity.

**Pilates** = 20

Pilates workout.

**Racquetball** = 21

Racquetball activity.

**Ride** = 22

Standard cycling activity.

**RockClimbing** = 23

Rock climbing activity.

**RollerSki** = 24

Roller skiing activity.

**Rowing** = 25

Rowing activity.

**Run** = 26

Running activity.

**Sail** = 27

Sailing activity.

**Skateboard** = 28

Skateboarding activity.

**Snowboard** = 29

Snowboarding activity.

**Snowshoe** = 30

Snowshoeing activity.

**Soccer** = 31

Soccer game.

**Squash** = 32

Squash activity.

**StairStepper** = 33

Stair stepper workout.

**StandUpPaddling** = 34

Stand-up paddling activity.

**Surfing** = 35

Surfing activity.

**Swim** = 36

Swimming activity.

**TableTennis** = 37

Table tennis activity.

**Tennis** = 38

Tennis activity.

**TrailRun** = 39

Trail running activity.

**Velomobile** = 40

Velomobile ride.

**VirtualRide** = 41

Virtual cycling ride.

**VirtualRow** = 42

Virtual rowing session.

**VirtualRun** = 43

Virtual running session.

**Walk = 44**

Walking activity.

**WeightTraining = 45**

Weight training session.

**Wheelchair = 46**

Wheelchair activity.

**Windsurf = 47**

Windsurfing activity.

**Workout = 48**

Generic workout activity.

**Yoga = 49**

Yoga session.

# Namespace StravaAPILibary.Models.Explorer

## Classes

### [ExplorerResponse](#)

Represents the response from the Explorer API containing a set of segments.

### [ExplorerSegment](#)

Represents a segment returned from the Explorer API.

# Class ExplorerResponse

Namespace: [StravaAPILibary.Models.Explorer](#)

Assembly: StravaAPILibary.dll

Represents the response from the Explorer API containing a set of segments.

```
public class ExplorerResponse
```

## Inheritance

[object](#) ← ExplorerResponse

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Segments

The set of segments matching an explorer request.

```
public List<ExplorerSegment> Segments { get; set; }
```

## Property Value

[List](#)<[ExplorerSegment](#)>

# Class ExplorerSegment

Namespace: [StravaAPILibrary.Models.Explorer](#)

Assembly: StravaAPILibrary.dll

Represents a segment returned from the Explorer API.

```
public class ExplorerSegment
```

## Inheritance

[object](#) ← ExplorerSegment

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

### AvgGrade

The segment's average grade in percents.

```
public float AvgGrade { get; set; }
```

### Property Value

[float](#)

### ClimbCategory

The category of the climb [0, 5]. Higher is harder (e.g. 5 = Hors catégorie, 0 = uncategorized).

```
public int ClimbCategory { get; set; }
```

### Property Value

[int](#)

## ClimbCategoryDesc

The description for the category of the climb (NC, 4, 3, 2, 1, HC).

```
public string ClimbCategoryDesc { get; set; }
```

### Property Value

[string](#)

## Distance

The segment's distance in meters.

```
public float Distance { get; set; }
```

### Property Value

[float](#)

## ElevDifference

The segment's elevation difference in meters.

```
public float ElevDifference { get; set; }
```

### Property Value

[float](#)

## EndLatLng

The ending latitude/longitude of the segment.

```
public LatLng EndLatLng { get; set; }
```

Property Value

[LatLng](#)

Id

The unique identifier of this segment.

```
public long Id { get; set; }
```

Property Value

[long](#)

Name

The name of this segment.

```
public string Name { get; set; }
```

Property Value

[string](#)

Points

The polyline of the segment.

```
public string Points { get; set; }
```

Property Value

[string](#)

## StartLatLng

The starting latitude/longitude of the segment.

```
public LatLng StartLatLng { get; set; }
```

Property Value

[LatLng](#)

# Namespace StravaAPILibary.Models.Gears

## Classes

### [DetailedGear](#)

Represents detailed information about a piece of gear in Strava.

### [SummaryGear](#)

Represents a summary of gear associated with an athlete or activity.

# Class DetailedGear

Namespace: [StravaAPILibrary.Models.Gears](#)

Assembly: StravaAPILibrary.dll

Represents detailed information about a piece of gear in Strava.

```
public class DetailedGear
```

## Inheritance

[object](#) ← DetailedGear

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

### BrandName

The gear's brand name.

```
public string BrandName { get; set; }
```

### Property Value

[string](#)

### Description

The description of the gear.

```
public string Description { get; set; }
```

### Property Value

[string](#)

## Distance

The distance logged with this gear.

```
public float Distance { get; set; }
```

### Property Value

[float](#)

## FrameType

The gear's frame type (bike only).

```
public int FrameType { get; set; }
```

### Property Value

[int](#)

## Id

The gear's unique identifier.

```
public string Id { get; set; }
```

### Property Value

[string](#)

## ModelName

The gear's model name.

```
public string ModelName { get; set; }
```

## Property Value

[string](#)

## Name

The gear's name.

```
public string Name { get; set; }
```

## Property Value

[string](#)

## Primary

Whether this gear is the owner's default gear.

```
public bool Primary { get; set; }
```

## Property Value

[bool](#)

## ResourceState

Resource state, indicates level of detail. Possible values: 2 -> "summary", 3 -> "detail".

```
public int ResourceState { get; set; }
```

## Property Value

[int](#)

# Class SummaryGear

Namespace: [StravaAPILibrary.Models.Gears](#)

Assembly: StravaAPILibrary.dll

Represents a summary of gear associated with an athlete or activity.

```
public class SummaryGear
```

## Inheritance

[object](#) ← SummaryGear

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Distance

The distance logged with this gear, in meters.

```
public float Distance { get; set; }
```

### Property Value

[float](#)

## Id

The gear's unique identifier.

```
public string Id { get; set; }
```

### Property Value

[string](#)

## Name

The gear's display name.

```
public string Name { get; set; }
```

## Property Value

[string](#)

## Primary

Indicates whether this gear is the athlete's primary/default gear.

```
public bool Primary { get; set; }
```

## Property Value

[bool](#)

## ResourceState

Resource state, indicates level of detail. Possible values: 2 = "summary", 3 = "detail".

```
public int ResourceState { get; set; }
```

## Property Value

[int](#)

# Namespace StravaAPILibary.Models.Maps

## Classes

### [PolylineMap](#)

Represents the polyline map data of an activity, route, or segment.

# Class PolylineMap

Namespace: [StravaAPILibary.Models.Maps](#)

Assembly: StravaAPILibary.dll

Represents the polyline map data of an activity, route, or segment.

```
public class PolylineMap
```

## Inheritance

[object](#) ← PolylineMap

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Id

The identifier of the map.

```
public string Id { get; set; }
```

## Property Value

[string](#)

## Polyline

The polyline of the map, only returned in detailed representations.

```
public string? Polyline { get; set; }
```

## Property Value

[string](#) ↗

## SummaryPolyline

The summary polyline of the map.

```
public string? SummaryPolyline { get; set; }
```

Property Value

[string](#) ↗

# Namespace StravaAPILibary.Models.Photos

## Classes

### [PhotosSummary](#)

Represents a summary of photos related to an activity.

### [PhotosSummaryPrimary](#)

Represents the primary photo associated with an activity.

# Class PhotosSummary

Namespace: [StravaAPILibrary.Models.Photos](#)

Assembly: StravaAPILibrary.dll

Represents a summary of photos related to an activity.

```
public class PhotosSummary
```

## Inheritance

[object](#) ← PhotosSummary

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Count

The number of photos.

```
public int Count { get; set; }
```

## Property Value

[int](#)

## Primary

The primary photo associated with this activity.

```
public PhotosSummaryPrimary? Primary { get; set; }
```

## Property Value

## PhotosSummaryPrimary

# Class PhotosSummaryPrimary

Namespace: [StravaAPILibary.Models.Photos](#)

Assembly: StravaAPILibary.dll

Represents the primary photo associated with an activity.

```
public class PhotosSummaryPrimary
```

## Inheritance

[object](#) ← PhotosSummaryPrimary

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

### Id

The ID of the primary photo.

```
public long Id { get; set; }
```

### Property Value

[long](#)

### Source

The source of the primary photo.

```
public int Source { get; set; }
```

### Property Value

[int](#)

## UniqueId

The unique identifier of the primary photo.

```
public string UniqueId { get; set; }
```

## Property Value

[string](#)

## Urls

The URLs associated with the primary photo.

```
public stringUrls { get; set; }
```

## Property Value

[string](#)

# Namespace StravaAPILibary.Models.Routes

## Classes

### [Route](#)

Represents a Strava route, including its metadata and associated details.

### [Waypoint](#)

Represents a waypoint along a route.

# Class Route

Namespace: [StravaAPILibrary.Models.Routes](#)

Assembly: StravaAPILibrary.dll

Represents a Strava route, including its metadata and associated details.

```
public class Route
```

## Inheritance

[object](#) ← Route

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Athlete

The athlete who created the route.

```
public SummaryAthlete Athlete { get; set; }
```

## Property Value

[SummaryAthlete](#)

## CreatedAt

The time at which the route was created.

```
public DateTime CreatedAt { get; set; }
```

## Property Value

## [DateTime](#)

### Description

The description of the route.

```
public string Description { get; set; }
```

### Property Value

[string](#)

### Distance

The distance of the route, in meters.

```
public float Distance { get; set; }
```

### Property Value

[float](#)

### ElevationGain

The elevation gain of the route, in meters.

```
public float ElevationGain { get; set; }
```

### Property Value

[float](#)

### EstimatedMovingTime

Estimated time in seconds for the authenticated athlete to complete the route.

```
public int EstimatedMovingTime { get; set; }
```

Property Value

[int](#)

## Id

The unique identifier of this route.

```
public long Id { get; set; }
```

Property Value

[long](#)

## IdStr

The unique identifier of this route in string format.

```
public string IdStr { get; set; }
```

Property Value

[string](#)

## Map

The polyline map of the route.

```
public PolylineMap Map { get; set; }
```

Property Value

[PolylineMap](#)

## Name

The name of the route.

```
public string Name { get; set; }
```

## Property Value

[string](#)

## Private

Whether this route is private.

```
public bool Private { get; set; }
```

## Property Value

[bool](#)

## Segments

The segments traversed by this route.

```
public List<SummarySegment> Segments { get; set; }
```

## Property Value

[List](#)<[SummarySegment](#)>

## Starred

Whether this route is starred by the logged-in athlete.

```
public bool Starred { get; set; }
```

## Property Value

[bool ↗](#)

## SubType

This route's sub-type (1 for road, 2 for mountain bike, 3 for cross, 4 for trail, 5 for mixed).

```
public int SubType { get; set; }
```

## Property Value

[int ↗](#)

## Timestamp

An epoch timestamp of when the route was created.

```
public int Timestamp { get; set; }
```

## Property Value

[int ↗](#)

## Type

This route's type (1 for ride, 2 for run).

```
public int Type { get; set; }
```

## Property Value

[int ↗](#)

## UpdatedAt

The time at which the route was last updated.

```
public DateTime UpdatedAt { get; set; }
```

Property Value

[DateTime](#)

## Waypoints

The custom waypoints along this route.

```
public List<Waypoint> Waypoints { get; set; }
```

Property Value

[List](#) <[Waypoint](#)>

# Class Waypoint

Namespace: [StravaAPILibary.Models.Routes](#)

Assembly: StravaAPILibary.dll

Represents a waypoint along a route.

```
public class Waypoint
```

## Inheritance

[object](#) ← Waypoint

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

### Categories

Categories that the waypoint belongs to.

```
public string Categories { get; set; }
```

### Property Value

[string](#)

### Description

A description of the waypoint (optional).

```
public string? Description { get; set; }
```

### Property Value

[string](#)

## DistanceIntoRoute

The number of meters along the route where the waypoint is located.

```
public int DistanceIntoRoute { get; set; }
```

Property Value

[int](#)

## LatLng

The location along the route that the waypoint is closest to.

```
public LatLng LatLng { get; set; }
```

Property Value

[LatLng](#)

## TargetLatLng

A location off of the route that the waypoint is (optional).

```
public LatLng? TargetLatLng { get; set; }
```

Property Value

[LatLng](#)

## Title

A title for the waypoint.

```
public string Title { get; set; }
```

Property Value

[string](#) ↗

# Namespace StravaAPILibary.Models.Segments

## Classes

### [DetailedSegment](#)

Represents detailed information about a Strava segment.

### [DetailedSegmentEffort](#)

Represents a detailed segment effort, including performance metrics and related activity/athlete information.

### [SummaryPRSegmentEffort](#)

Represents the personal record (PR) effort for a segment.

### [SummarySegment](#)

Represents a summary of a Strava segment.

### [SummarySegmentEffort](#)

Represents a summary of an athlete's effort on a segment.

# Class DetailedSegment

Namespace: [StravaAPILibary.Models.Segments](#)

Assembly: StravaAPILibary.dll

Represents detailed information about a Strava segment.

```
public class DetailedSegment
```

## Inheritance

[object](#) ← DetailedSegment

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

### ActivityType

The activity type of this segment (e.g., Ride, Run).

```
public string ActivityType { get; set; }
```

#### Property Value

[string](#)

### AthleteCount

The number of unique athletes who have an effort on this segment.

```
public int AthleteCount { get; set; }
```

#### Property Value

[int](#)

## AthletePrEffort

The athlete's personal record effort on this segment.

```
public SummaryPRSegmentEffort? AthletePrEffort { get; set; }
```

Property Value

[SummaryPRSegmentEffort](#)

## AthleteSegmentStats

The athlete's segment statistics.

```
public SummarySegmentEffort? AthleteSegmentStats { get; set; }
```

Property Value

[SummarySegmentEffort](#)

## AverageGrade

The segment's average grade, in percents.

```
public float AverageGrade { get; set; }
```

Property Value

[float](#)

## City

The city where the segment is located.

```
public string City { get; set; }
```

Property Value

[string](#)

## ClimbCategory

The category of the climb [0, 5]. Higher is harder (e.g., 5 = HC, 0 = uncategorized).

```
public int ClimbCategory { get; set; }
```

Property Value

[int](#)

## Country

The country of the segment.

```
public string Country { get; set; }
```

Property Value

[string](#)

## CreatedAt

The date and time when the segment was created.

```
public DateTime CreatedAt { get; set; }
```

Property Value

[DateTime](#)

## Distance

The segment's distance, in meters.

```
public float Distance { get; set; }
```

### Property Value

[float](#)

## EffortCount

The total number of efforts recorded for this segment.

```
public int EffortCount { get; set; }
```

### Property Value

[int](#)

## ElevationHigh

The segment's highest elevation, in meters.

```
public float ElevationHigh { get; set; }
```

### Property Value

[float](#)

## ElevationLow

The segment's lowest elevation, in meters.

```
public float ElevationLow { get; set; }
```

Property Value

[float](#) ↗

## EndLatLng

The segment's end coordinates (latitude/longitude).

```
public LatLng? EndLatLng { get; set; }
```

Property Value

[LatLng](#)

## Hazardous

Indicates whether this segment is considered hazardous.

```
public bool Hazardous { get; set; }
```

Property Value

[bool](#) ↗

## Id

The unique identifier of this segment.

```
public long Id { get; set; }
```

Property Value

[long](#) ↗

## Map

The polyline map of the segment.

```
public PolylineMap? Map { get; set; }
```

Property Value

[PolylineMap](#)

## MaximumGrade

The segment's maximum grade, in percents.

```
public float MaximumGrade { get; set; }
```

Property Value

[float](#)

## Name

The name of this segment.

```
public string Name { get; set; }
```

Property Value

[string](#)

## Private

Whether this segment is private.

```
public bool Private { get; set; }
```

Property Value

[bool](#)

## StarCount

The number of stars for this segment.

```
public int StarCount { get; set; }
```

Property Value

[int](#)

## StartLatLng

The segment's start coordinates (latitude/longitude).

```
public LatLng? StartLatLng { get; set; }
```

Property Value

[LatLng](#)

## State

The state or geographical region of the segment.

```
public string State { get; set; }
```

Property Value

[string](#)

## TotalElevationGain

The total elevation gain of the segment, in meters.

```
public float TotalElevationGain { get; set; }
```

Property Value

[float](#)

## UpdatedAt

The date and time when the segment was last updated.

```
public DateTime UpdatedAt { get; set; }
```

Property Value

[DateTime](#)

# Class DetailedSegmentEffort

Namespace: [StravaAPILibrary.Models.Segments](#)

Assembly: StravaAPILibrary.dll

Represents a detailed segment effort, including performance metrics and related activity/athlete information.

```
public class DetailedSegmentEffort
```

## Inheritance

[object](#) ← DetailedSegmentEffort

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Activity

The activity associated with this effort.

```
public MetaActivity? Activity { get; set; }
```

### Property Value

[MetaActivity](#)

## ActivityId

The unique identifier of the activity related to this effort.

```
public long ActivityId { get; set; }
```

### Property Value

[long](#)

## Athlete

The athlete who performed this effort.

```
public MetaAthlete? Athlete { get; set; }
```

### Property Value

[MetaAthlete](#)

## AverageCadence

The average cadence during this effort.

```
public float AverageCadence { get; set; }
```

### Property Value

[float](#)

## AverageHeartrate

The average heart rate of the athlete during this effort.

```
public float AverageHeartrate { get; set; }
```

### Property Value

[float](#)

## AverageWatts

The average power output during this effort, in watts.

```
public float AverageWatts { get; set; }
```

Property Value

[float](#)

## DeviceWatts

Indicates whether the wattage was measured by a power meter (true) or estimated (false).

```
public bool DeviceWatts { get; set; }
```

Property Value

[bool](#)

## Distance

The distance of the effort, in meters.

```
public float Distance { get; set; }
```

Property Value

[float](#)

## Elapsed Time

The elapsed time of the effort, in seconds.

```
public int ElapsedTime { get; set; }
```

Property Value

[int](#)

## EndIndex

The end index of this effort in its activity's stream.

```
public int EndIndex { get; set; }
```

Property Value

[int](#)

## Hidden

Indicates whether this effort should be hidden when viewed within an activity.

```
public bool Hidden { get; set; }
```

Property Value

[bool](#)

## Id

The unique identifier of this effort.

```
public long Id { get; set; }
```

Property Value

[long](#)

## IsKom

Indicates whether this effort is the current best on the leaderboard (KOM/QOM).

```
public bool IsKom { get; set; }
```

Property Value

[bool](#)

## KomRank

The athlete's rank on the global leaderboard (if in the top 10 at the time of upload).

```
public int? KomRank { get; set; }
```

Property Value

[int](#)?

## MaxHeartrate

The maximum heart rate of the athlete during this effort.

```
public float MaxHeartrate { get; set; }
```

Property Value

[float](#)

## MovingTime

The moving time of the effort, in seconds.

```
public int MovingTime { get; set; }
```

Property Value

[int](#)

## Name

The name of the segment on which this effort was performed.

```
public string Name { get; set; }
```

Property Value

[string](#)

## PrRank

The athlete's rank on their personal leaderboard (if in the top 3 at the time of upload).

```
public int? PrRank { get; set; }
```

Property Value

[int](#)?

## Segment

The segment associated with this effort.

```
public SummarySegment? Segment { get; set; }
```

Property Value

[SummarySegment](#)

## StartDate

The time at which the effort was started.

```
public DateTime StartDate { get; set; }
```

Property Value

[DateTime](#)

## StartDateLocal

The local time at which the effort was started.

```
public DateTime StartDateLocal { get; set; }
```

Property Value

[DateTime](#)

## StartIndex

The start index of this effort in its activity's stream.

```
public int StartIndex { get; set; }
```

Property Value

[int](#)

# Class SummaryPRSegmentEffort

Namespace: [StravaAPILibary.Models.Segments](#)

Assembly: StravaAPILibary.dll

Represents the personal record (PR) effort for a segment.

```
public class SummaryPRSegmentEffort
```

## Inheritance

[object](#) ← SummaryPRSegmentEffort

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

### EffortCount

The number of efforts by the authenticated athlete on this segment.

```
public int EffortCount { get; set; }
```

#### Property Value

[int](#)

### PrActivityId

The unique identifier of the activity related to the PR effort.

```
public long PrActivityId { get; set; }
```

#### Property Value

[long](#) ↗

## PrDate

The date and time when the PR effort was started.

```
public DateTime PrDate { get; set; }
```

### Property Value

[DateTime](#) ↗

## PrElapsedTime

The elapsed time of the PR effort in seconds.

```
public int PrElapsedTime { get; set; }
```

### Property Value

[int](#) ↗

# Class SummarySegment

Namespace: [StravaAPILibary.Models.Segments](#)

Assembly: StravaAPILibary.dll

Represents a summary of a Strava segment.

```
public class SummarySegment
```

## Inheritance

[object](#) ← SummarySegment

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

### ActivityType

The activity type of the segment (e.g. Ride, Run).

```
public string ActivityType { get; set; }
```

### Property Value

[string](#)

### AthletePrEffort

The personal record (PR) effort for this segment.

```
public SummaryPRSegmentEffort AthletePrEffort { get; set; }
```

### Property Value

## [SummaryPRSegmentEffort](#)

### AthleteSegmentStats

The athlete's segment statistics.

```
public SummarySegmentEffort AthleteSegmentStats { get; set; }
```

#### Property Value

##### [SummarySegmentEffort](#)

### AverageGrade

The segment's average grade, in percent.

```
public float AverageGrade { get; set; }
```

#### Property Value

##### [float](#)

### City

The city where the segment is located.

```
public string City { get; set; }
```

#### Property Value

##### [string](#)

### ClimbCategory

The climb category of the segment (0-5).

```
public int ClimbCategory { get; set; }
```

Property Value

[int ↗](#)

## Country

The country where the segment is located.

```
public string Country { get; set; }
```

Property Value

[string ↗](#)

## Distance

The distance of the segment, in meters.

```
public float Distance { get; set; }
```

Property Value

[float ↗](#)

## ElevationHigh

The segment's highest elevation, in meters.

```
public float ElevationHigh { get; set; }
```

Property Value

[float ↗](#)

## ElevationLow

The segment's lowest elevation, in meters.

```
public float ElevationLow { get; set; }
```

Property Value

[float](#) ↗

## EndLatLng

The ending latitude/longitude of the segment.

```
public LatLng EndLatLng { get; set; }
```

Property Value

[LatLng](#)

## Id

The unique identifier of this segment.

```
public long Id { get; set; }
```

Property Value

[long](#) ↗

## MaximumGrade

The segment's maximum grade, in percent.

```
public float MaximumGrade { get; set; }
```

## Property Value

[float](#) ↗

## Name

The name of this segment.

```
public string Name { get; set; }
```

## Property Value

[string](#) ↗

## Private

Indicates whether the segment is private.

```
public bool Private { get; set; }
```

## Property Value

[bool](#) ↗

## StartLatLng

The starting latitude/longitude of the segment.

```
public LatLng StartLatLng { get; set; }
```

## Property Value

[LatLng](#)

## State

The state or geographical region where the segment is located.

```
public string State { get; set; }
```

Property Value

[string](#) ↗

# Class SummarySegmentEffort

Namespace: [StravaAPILibrary.Models.Segments](#)

Assembly: StravaAPILibrary.dll

Represents a summary of an athlete's effort on a segment.

```
public class SummarySegmentEffort
```

## Inheritance

[object](#) ← SummarySegmentEffort

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

## Properties

### ActivityId

The unique identifier of the activity related to this effort.

```
public long ActivityId { get; set; }
```

#### Property Value

[long](#)

### Distance

The distance covered during this effort, in meters.

```
public float Distance { get; set; }
```

#### Property Value

[float](#)

## Elapsed Time

The elapsed time of this effort in seconds.

```
public int ElapsedTime { get; set; }
```

### Property Value

[int](#)

## Id

The unique identifier of this effort.

```
public long Id { get; set; }
```

### Property Value

[long](#)

## Is Kom

Indicates whether this effort is the current best on the leaderboard.

```
public bool IsKom { get; set; }
```

### Property Value

[bool](#)

## Start Date

The date and time when this effort was started.

```
public DateTime StartDate { get; set; }
```

Property Value

[DateTime](#)

## StartDateLocal

The local date and time when this effort was started.

```
public DateTime StartDateLocal { get; set; }
```

Property Value

[DateTime](#)

# Namespace StravaAPILibary.Models.Streams

## Classes

### [AltitudeStream](#)

Represents a stream of altitude data points.

### [BaseStream](#)

Represents the base properties of a stream returned by the Strava API.

### [CadenceStream](#)

Represents a stream of cadence data points.

### [DistanceStream](#)

Represents a stream of distance data points.

### [HeartrateStream](#)

Represents a stream of heart rate data points.

### [LatLngStream](#)

Represents a stream of GPS coordinates (latitude/longitude).

### [MovingStream](#)

Represents a stream indicating whether the athlete was moving.

### [PowerStream](#)

Represents a stream of power data points.

### [SmoothGradeStream](#)

Represents a stream of smoothed gradient data points.

### [SmoothVelocityStream](#)

Represents a stream of smoothed velocity (speed) data points.

### [StreamSet](#)

Represents a collection of different data streams associated with an activity or segment.

### [TemperatureStream](#)

Represents a stream of temperature data points.

### [TimeStream](#)

Represents a stream of time data points.

# Class AltitudeStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a stream of altitude data points.

```
public class AltitudeStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← AltitudeStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of altitude values, in meters.

```
public List<float> Data { get; set; }
```

## Property Value

[List](#) <[float](#)>

# Class BaseStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents the base properties of a stream returned by the Strava API.

```
public class BaseStream
```

## Inheritance

[object](#) ← BaseStream

## Derived

[AltitudeStream](#), [CadenceStream](#), [DistanceStream](#), [HeartrateStream](#), [LatLngStream](#), [MovingStream](#),  
[PowerStream](#), [SmoothGradeStream](#), [SmoothVelocityStream](#), [TemperatureStream](#), [TimeStream](#)

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## OriginalSize

The number of data points in this stream.

```
public int OriginalSize { get; set; }
```

## Property Value

[int](#)

## Resolution

The level of detail (sampling) in which this stream was returned. Possible values: low, medium, high.

```
public string Resolution { get; set; }
```

Property Value

[string](#) ↗

## SeriesType

The base series used in the case the stream was downsampled. Possible values: distance, time.

```
public string SeriesType { get; set; }
```

Property Value

[string](#) ↗

# Class CadenceStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a stream of cadence data points.

```
public class CadenceStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← CadenceStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of cadence values, in rotations per minute.

```
public List<int> Data { get; set; }
```

## Property Value

[List](#) <[int](#)>

# Class DistanceStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a stream of distance data points.

```
public class DistanceStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← DistanceStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of distance values, in meters.

```
public List<float> Data { get; set; }
```

## Property Value

[List](#) <[float](#)>

# Class HearrateStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a stream of heart rate data points.

```
public class HearrateStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← HearrateStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of heart rate values, in beats per minute.

```
public List<int> Data { get; set; }
```

## Property Value

[List](#)<[int](#)>

# Class LatLngStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a stream of GPS coordinates (latitude/longitude).

```
public class LatLngStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← LatLngStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of latitude/longitude coordinate pairs.

```
public List<LatLng> Data { get; set; }
```

## Property Value

[List](#) <[LatLng](#)>

# Class MovingStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a stream indicating whether the athlete was moving.

```
public class MovingStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← MovingStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of movement flags, where true indicates movement.

```
public List<bool> Data { get; set; }
```

## Property Value

[List](#)<[bool](#)>

# Class PowerStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a stream of power data points.

```
public class PowerStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← PowerStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of power values, in watts.

```
public List<int> Data { get; set; }
```

## Property Value

[List](#) <[int](#)>

# Class SmoothGradeStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a stream of smoothed gradient data points.

```
public class SmoothGradeStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← SmoothGradeStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of gradient values, as percentages.

```
public List<float> Data { get; set; }
```

## Property Value

[List](#) <[float](#)>

# Class SmoothVelocityStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a stream of smoothed velocity (speed) data points.

```
public class SmoothVelocityStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← SmoothVelocityStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of velocity values, in meters per second.

```
public List<float> Data { get; set; }
```

## Property Value

[List](#) <[float](#)>

# Class StreamSet

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a collection of different data streams associated with an activity or segment.

```
public class StreamSet
```

## Inheritance

[object](#) ← StreamSet

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Altitude

Stream of altitude values (meters).

```
public AltitudeStream? Altitude { get; set; }
```

## Property Value

[AltitudeStream](#)

## Cadence

Stream of cadence values (rotations per minute).

```
public CadenceStream? Cadence { get; set; }
```

## Property Value

## CadenceStream

### Distance

Stream of distance values (meters).

```
public DistanceStream? Distance { get; set; }
```

### Property Value

#### DistanceStream

### GradeSmooth

Stream of smoothed gradient values (percent grade).

```
public SmoothGradeStream? GradeSmooth { get; set; }
```

### Property Value

#### SmoothGradeStream

### Heartrate

Stream of heart rate values (bpm).

```
public HearrateStream? Heartrate { get; set; }
```

### Property Value

#### HearrateStream

### LatLng

Stream of GPS coordinates (latitude/longitude pairs).

```
public LatLngStream? LatLng { get; set; }
```

Property Value

[LatLngStream](#)

## Moving

Stream indicating movement state (true = moving).

```
public MovingStream? Moving { get; set; }
```

Property Value

[MovingStream](#)

## Temp

Stream of temperature values (°C).

```
public TemperatureStream? Temp { get; set; }
```

Property Value

[TemperatureStream](#)

## Time

Stream of time values (seconds).

```
public TimeStream? Time { get; set; }
```

Property Value

[TimeStream](#)

## VelocitySmooth

Stream of smoothed velocity values (m/s).

```
public SmoothVelocityStream? VelocitySmooth { get; set; }
```

Property Value

[SmoothVelocityStream](#)

## Watts

Stream of power values (watts).

```
public PowerStream? Watts { get; set; }
```

Property Value

[PowerStream](#)

# Class TemperatureStream

Namespace: [StravaAPILibrary.Models.Streams](#)

Assembly: StravaAPILibrary.dll

Represents a stream of temperature data points.

```
public class TemperatureStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← TemperatureStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of temperature values, in degrees Celsius.

```
public List<int> Data { get; set; }
```

## Property Value

[List](#) <[int](#)>

# Class TimeStream

Namespace: [StravaAPILibary.Models.Streams](#)

Assembly: StravaAPILibary.dll

Represents a stream of time data points.

```
public class TimeStream : BaseStream
```

## Inheritance

[object](#) ← [BaseStream](#) ← TimeStream

## Inherited Members

[BaseStream.OriginalSize](#) , [BaseStream.Resolution](#) , [BaseStream.SeriesType](#) , [object.Equals\(object\)](#) ,  
[object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Data

The sequence of time values, in seconds.

```
public List<int> Data { get; set; }
```

## Property Value

[List](#) <[int](#)>

# Namespace StravaAPILibary.Models.Uploads

## Classes

### [Upload](#)

Represents the status and details of an upload in Strava.

# Class Upload

Namespace: [StravaAPILibrary.Models.Uploads](#)

Assembly: StravaAPILibrary.dll

Represents the status and details of an upload in Strava.

```
public class Upload
```

## Inheritance

[object](#) ← Upload

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## ActivityId

The identifier of the activity this upload resulted in.

```
public long? ActivityId { get; set; }
```

## Property Value

[long](#)?

## Error

The error associated with this upload, if any.

```
public string? Error { get; set; }
```

## Property Value

[string](#)

## ExternalId

The external identifier of the upload (e.g., original file name or external system reference).

```
public string ExternalId { get; set; }
```

### Property Value

[string](#)

## Id

The unique identifier of the upload.

```
public long Id { get; set; }
```

### Property Value

[long](#)

## IdStr

The unique identifier of the upload in string format.

```
public string IdStr { get; set; }
```

### Property Value

[string](#)

## Status

The current status of the upload.

```
public string Status { get; set; }
```

Property Value

[string](#) ↗

# Namespace StravaAPILibary.Models.Zones

## Classes

### [HeartRateZoneRanges](#)

Represents heart rate zone ranges for an athlete.

### [PowerZoneRanges](#)

Represents the power zone ranges for an athlete.

### [ZoneRange](#)

Represents a single heart rate or power zone range.

### [ZoneRanges](#)

A collection of zone ranges (e.g., heart rate or power zones).

# Class HeartRateZoneRanges

Namespace: [StravaAPILibary.Models.Zones](#)

Assembly: StravaAPILibary.dll

Represents heart rate zone ranges for an athlete.

```
public class HeartRateZoneRanges
```

## Inheritance

[object](#) ← HeartRateZoneRanges

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## CustomZones

Indicates whether the athlete has set their own custom heart rate zones.

```
public bool CustomZones { get; set; }
```

### Property Value

[bool](#)

## Zones

The heart rate zones for the athlete.

```
public ZoneRanges Zones { get; set; }
```

### Property Value

## ZoneRanges

# Class PowerZoneRanges

Namespace: [StravaAPILibary.Models.Zones](#)

Assembly: StravaAPILibary.dll

Represents the power zone ranges for an athlete.

```
public class PowerZoneRanges
```

## Inheritance

[object](#) ← PowerZoneRanges

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Zones

The collection of power zone ranges.

```
public ZoneRanges Zones { get; set; }
```

## Property Value

[ZoneRanges](#)

# Class ZoneRange

Namespace: [StravaAPILibrary.Models.Zones](#)

Assembly: StravaAPILibrary.dll

Represents a single heart rate or power zone range.

```
public class ZoneRange
```

## Inheritance

[object](#) ← ZoneRange

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Max

The maximum value in the range.

```
public int Max { get; set; }
```

### Property Value

[int](#)

## Min

The minimum value in the range.

```
public int Min { get; set; }
```

### Property Value

int ↗

# Class ZoneRanges

Namespace: [StravaAPILibary.Models.Zones](#)

Assembly: StravaAPILibary.dll

A collection of zone ranges (e.g., heart rate or power zones).

```
public class ZoneRanges
```

## Inheritance

[object](#) ← ZoneRanges

## Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,  
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

# Properties

## Zones

A list of individual zone ranges.

```
public List<ZoneRange> Zones { get; set; }
```

## Property Value

[List](#)<[ZoneRange](#)>