

[HealthKit](#) / [HKWorkoutActivity](#)

Class

# HKWorkoutActivity

An object that describes an activity within a longer workout.

iOS 16.0+ | iPadOS 16.0+ | Mac Catalyst 16.0+ | macOS 13.0+ | visionOS 1.0+ | watchOS 9.0+

```
class HKWorkoutActivity
```

## Mentioned in

 [Dividing a HealthKit workout into activities](#)

## Overview

Workout activity objects partition a workout into a set of separate activities. For example, you can use workout activities to record the swim, bike, and running portions of a multisport event, like a triathlon, or to represent the active and rest periods during interval training. All [HKWorkout](#) instance have at least one, associated [HKWorkoutActivity](#). If you don't explicitly set workout activities, HealthKit assigns a workout activity that matches the [HKWorkout](#) object's activity type. For more information, see [Dividing a HealthKit workout into activities](#).

## Topics

### Creating workout activities

```
init(workoutConfiguration: HKWorkoutConfiguration, start: Date, end: Date?, metadata: [String : Any]?)
```

Creates a workout activity using the provided configuration, start date, end date, and metadata.

## Accessing workout data

`var uuid: UUID`

The activity's universally unique identifier (UUID).

`var startDate: Date`

The activity's start date and time.

`var endDate: Date?`

The activity's end date and time.

`var duration: TimeInterval`

The activity's duration, measured in seconds.

`var allStatistics: [HKQuantityType : HKStatistics]`

A dictionary that contains all the statistics for the activity.

`func statistics(for: HKQuantityType) -> HKStatistics?`

Returns the activity's statistics for the provided quantity type.

`var metadata: [String : Any]?`

Metadata that describes the activity.

`var workoutConfiguration: HKWorkoutConfiguration`

The configuration information for this part of the workout.

`var workoutEvents: [HKWorkoutEvent]`

An array of events associated with the containing workout and occurring during the activity's duration.

## Specifying predicate key paths

`let HKPredicateKeyPathWorkoutActivity: String`

The key path for accessing a specific workout activity.

`let HKPredicateKeyPathWorkoutActivityType: String`

The key path for accessing activities that match a workout activity type.

```
let HKPredicateKeyPathWorkoutActivityStartDate: String
```

The key path for accessing activities with a matching start date.

```
let HKPredicateKeyPathWorkoutActivityEndDate: String
```

The key path for accessing activities with a matching end date.

```
let HKPredicateKeyPathWorkoutActivityDuration: String
```

The key path for accessing activities with a matching duration.

```
let HKPredicateKeyPathWorkoutActivityAverageQuantity: String
```

The key path for accessing activities with a matching average quantity.

```
let HKPredicateKeyPathWorkoutActivityMaximumQuantity: String
```

The key path for accessing activities with a matching maximum quantity.

```
let HKPredicateKeyPathWorkoutActivityMinimumQuantity: String
```

The key path for accessing activities with a matching minimum quantity.

```
let HKPredicateKeyPathWorkoutActivitySumQuantity: String
```

The key path for accessing activities with a matching sum.

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## Relationships

### Inherits From

NSObject

### Conforms To

CVarArg

CustomDebugStringConvertible

CustomStringConvertible

Equatable

Hashable

NSCoding

NSCopying

NSObjectProtocol

NSSecureCoding

Sendable

## See Also

### Samples

📄 [Adding samples to a workout](#)

Create associated samples that add details to a workout.

📄 [Accessing condensed workout samples](#)

Read series data from condensed workouts.

📄 [Dividing a HealthKit workout into activities](#)

Partition multisport and interval workouts into activities that represent the different parts of the workout.

`class HKWorkout`

A workout sample that stores information about a single physical activity.

`class HKWorkoutBuilder`

A builder object that incrementally constructs a workout.

`class HKWorkoutType`

A type that identifies samples that store information about a workout.

`let HKWorkoutTypeIdentifier: String`

The workout type identifier.

`enum HKWorkoutActivityType`

The type of activity performed during a workout.

`enum HKWorkoutSessionType`

The type of session.

`class HKWorkoutEvent`

An object representing an important event during a workout.