

WaitAsync(Int32)

Asynchronously waits to enter the [SemaphoreSlim](#), using a 32-bit signed integer to measure the time interval.

C#

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```
public System.Threading.Tasks.Task<bool> WaitAsync (int millisecondsTime-out);
```

Parameters

millisecondsTimeout [Int32](#)

The number of milliseconds to wait, [Infinite](#) (-1) to wait indefinitely, or zero to test the state of the wait handle and return immediately.

Returns

[Task<Boolean>](#)

A task that will complete with a result of `true` if the current thread successfully entered the [SemaphoreSlim](#), otherwise with a result of `false`.

Exceptions

[ObjectDisposedException](#)

The current instance has already been disposed.

[ArgumentOutOfRangeException](#)

`millisecondsTimeout` is a negative number other than -1, which represents an infinite timeout.

-or-

`millisecondsTimeout` is greater than [MaxValue](#).

Remarks

If the timeout is set to -1 milliseconds, the method waits indefinitely.

If the timeout is set to zero milliseconds, the method doesn't block. It tests the state of the wait handle and returns immediately.

Applies to

► .NET 6.0 Preview 3 and other versions