[Waiting for tasks to finish](javascript:void(0)" \o ")

The [System.Threading.Tasks.Task](https://msdn.microsoft.com/en-us/library/system.threading.tasks.task(v=vs.110).aspx) and [System.Threading.Tasks.Task<TResult>](https://msdn.microsoft.com/en-us/library/dd321424(v=vs.110).aspx) types provide several overloads of the [Task.Wait](https://msdn.microsoft.com/en-us/library/system.threading.tasks.task.wait(v=vs.110).aspx) and[Task<TResult>.Wait](https://msdn.microsoft.com/en-us/library/dd321409(v=vs.110).aspx) methods that enable you to wait for a task to finish. In addition, overloads of the static [Task.WaitAll](https://msdn.microsoft.com/en-us/library/system.threading.tasks.task.waitall(v=vs.110).aspx) and [Task.WaitAny](https://msdn.microsoft.com/en-us/library/system.threading.tasks.task.waitany(v=vs.110).aspx) methods let you wait for any or all of an array of tasks to finish.

Typically, you would wait for a task for one of these reasons:

* The main thread depends on the final result computed by a task.
* You have to handle exceptions that might be thrown from the task.
* The application may terminate before all tasks have completed execution. For example, console applications will terminate as soon as all synchronous code in Main (the application entry point) has executed