Bending Time with Asynchronous C#



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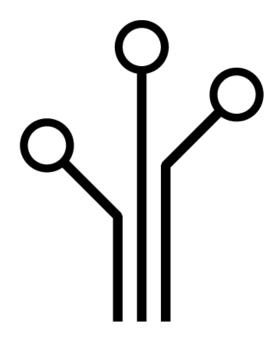
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Programs can be split up into "threads" that can all run at the same time



Threads



The main thread is typically a User Interface thread

Without asynchronous programming, starting a long operation can freeze the main thread

With asynchronous programming the long thread can continue while the main thread is unaffected



await

Wait for this to finish and then continue.



If you use await you must use async



Using "Await"

```
public async void Work() {
   await SlowTask();
public void SlowTask() {
  int i;
  for (i = 0; i < 50; i++) {
     Console.WriteLine(i);
     for (int j = 0; j < 10000; j++) {
        var k = Math.Sqrt(j);
```

Demo



Async & Await



Module Summary



Asynchronous programming

Await keyword

Async keyword

