KEEP YOUR UI RESPONSIVE WITH THE BACKGROUNDWORKER COMPONENT

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AGENDA

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- BackgroundWorker Component Features
- Overall Workflow
- LOOK AT THE CODE
- Resources
ABOUT ME

- Jeremy Clark
- Work for BiTKOO®
- 10 Years as an Application Developer
- .NET/C# since 2005
- ASP.NET, WinForms, Web Services, WCF, WPF, Silverlight, ASP.NET MVC
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Jeremy – 7th Grade
BACKGROUND WORKER COMPONENT FEATURES

- Background Thread Handling
- Automatic Marshalling Across Threads
- Progress Notification
- Error Handling
- Cancellation
BACKGROUND WORKER MEMBERS

- **Methods**
  - RunWorkerAsync
  - ReportProgress
  - CancelAsync

- **Properties**
  - WorkerReportsProgress
  - WorkerSupportsCancellation
  - CancellationPending
  - IsBusy

- **Events**
  - DoWork
  - RunWorkerCompleted
  - ProgressChanged
**Overall Workflow**

- **RunWorkerAsync (UI Thread)**
- **DoWork (Background)**
- **ReportProgress (Background)**
- **Cancelled**
- **RunWorkerCompleted (UI Thread)**
- **ProgressChanged (UI Thread)**

- **CancelAsync (UI Thread)**
- **Completed**
LOOK AT THE CODE
RESOURCES

- Pro WPF in C# 2010 by Matthew MacDonald
  - Contains an overview of the BackgroundWorker and a WPF example (prime number calculation)

- MSDN – BackgroundWorker Component
  - Contains an overview of the BackgroundWorker and a WinForms example (Fibonacci sequence)

- JeremyBytes
  - Contains downloadable code and full walkthrough
  - Email: jeremy@jeremybytes.com