

C# and Microsoft .NET **Exceptions**



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Last time...

- Examples
 - Inheritance
 - Abstract classes
 - Interfaces
- Polymorphism and Examples
 - Casting
 - Virtual, override, new
- Were the examples simple enough?
- Were the examples helpful?
- Any other feedback?

Exceptions

- What is an exception?
- Why handle Exceptions
- Advanced exception handling
 - Communicating between layers
 - Wrapping exceptions

Exceptions Hierarchy

- Exception
 - ArgumentException
 - ArgumentNullException
 - ArgumentOutOfRangeException
 - OverflowException
 - FormatException
 - IndexOutOfRangeException
 - InvalidCastException
 - NotSupportedException
 - NotImplementedException
 - NullReferenceException
 - StackOverflowException
- ArithmeticException
 - DivideByZeroException

Handling Exceptions

- The **try** section
- The **catch** section
 - Catching the Exception
 - Multiple **catch** sections
 - Re-throwing the exception
- The **finally** section
 - Omitting the finally section
 - Omitting the catch section

Throwing Exceptions

- The **throw** keyword
- Real life examples
 - Do I throw exceptions or do I return false?
 - When .NET framework throws exceptions?

Exception Details

- The **ExceptionMessage**
 - The **Stack Trace**
 - The **Inner Exception**
 - Building custom exceptions (outside of the course scope)
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- Debugging with exceptions (example)

Questions?

