







- There are many ways to open and access files
- · There is no best way
- The .NET Framework class library contains a complete list of file and stream classes

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# ASCII vs. Binary Files

• What is the difference between ASCII and binary files?

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Why do we use binary files?

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## Number Systems

- · Hexadecimal, decimal, and binary
- How do we convert from binary to decimal?
- · How do we convert from decimal to binary?

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- How do we convert from binary to hex?
- Convert the decimal 512 to Hex
  - Convert 512 first to binary
  - Convert the binary to hex

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#### Text Files Example · What are characters in a text file stored as? • 32767 represented as a text file: • What is 62 stored as? http://www.lookuptables.com/ Why? 00110011 00110010 00110111 00110110 00110111 51 50 55 54 55 3 2 7 6 7 Character Binary Decimal 9/20/05 CS360 Windows Programming 9/20/05 CS360 Windows Programming





### Example to Write a Binary File

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<pre>Stream s = new FileStream("Foo.txt", FileMode.Create); StreamWriter w = new StreamWriter(s); w.Write("Hello World "); w.Write(32767); w.Write(1' '); w.Write(45.67); w.Close(); c.Close();</pre>
s.close();
<pre>Stream t = new FileStream("Bar.dat", FileMode.Create); BinaryWriter b = new BinaryWriter(t); b.Write("Hello World "); b.Write(512); b.Write(512); b.Write(45.67); b.Close();</pre>
t.Close();

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	Arrays System	are implicitly derived from Array	
-	<ul> <li>int[] my</li> <li>double[,</li> <li>Properties         <ul> <li>myInt:</li> <li>myInt:</li> <li>myDoul</li> <li>myDoul</li> </ul> </li> </ul>	<pre>yInts = new int[3] {1, 2, 3}; ,,] myDoubles = new double[3,8,5]; ; s.Length is 3 s.Rank is 1 bles.Length is 120 bles.Rank is 3 bles.cength is 2</pre>	
	<ul> <li>Static Met</li> <li>Array</li> <li>Array</li> <li>Array</li> <li>Array</li> <li>Array</li> <li>int i</li> </ul>	<pre>choose set length(;) is 0 choose choose</pre>	
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# Summary

- Completed File I/O
- Arrays

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