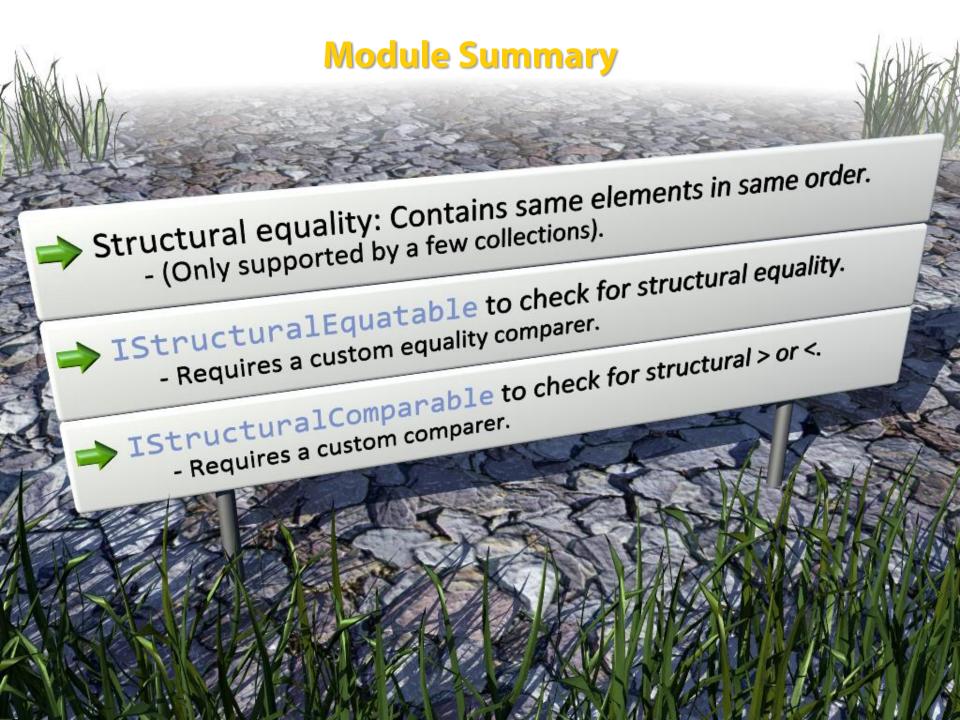
Structural Equality and Comparisons

Simon Robinson http://TechieSimon.com @TechieSimon









The Methods and Interfaces...

Methods/Operators

```
object.Equals()
static object.Equals()
object.ReferenceEquals()
object.GetHashCode()
operator ==
operator !=
operator <
operator <=
operator >
operator >=
```

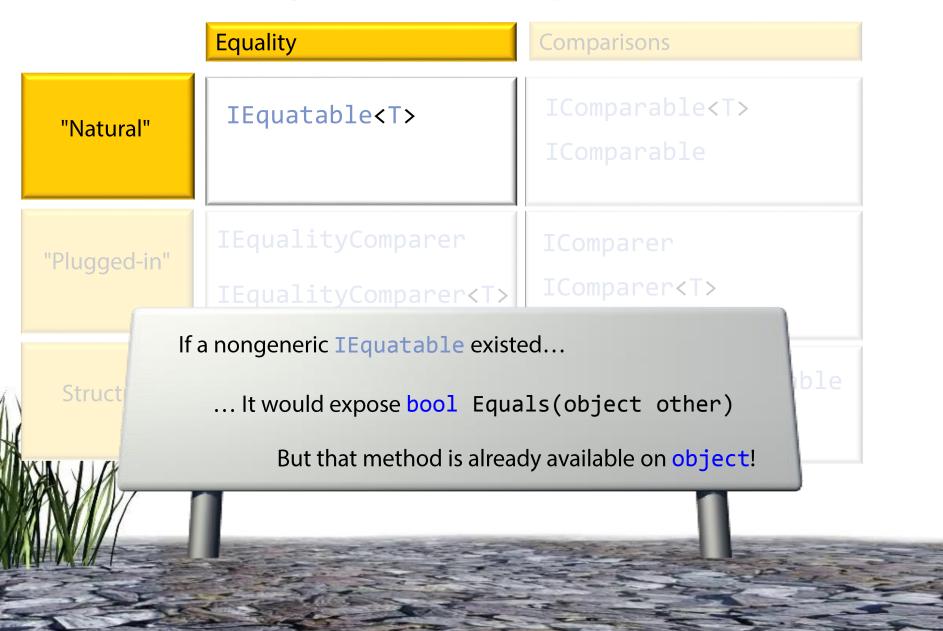
Interfaces

```
IEquatable<T>
IComparable<T>
IComparable
IComparer
IComparer<T>
IEqualityComparer
IEqualityComparer<T>
IStructuralEquatable
IStructuralComparable
```

The Interfaces

	Equality	Comparisons
"Natural"	IEquatable <t></t>	IComparable <t> IComparable</t>
"Plugged-in"	<pre>IEqualityComparer IEqualityComparer<t></t></pre>	IComparer IComparer <t></t>
Structural	IStructuralEquatable	IStructuralComparable

Why is There No IEquatable?



The Methods and Operators

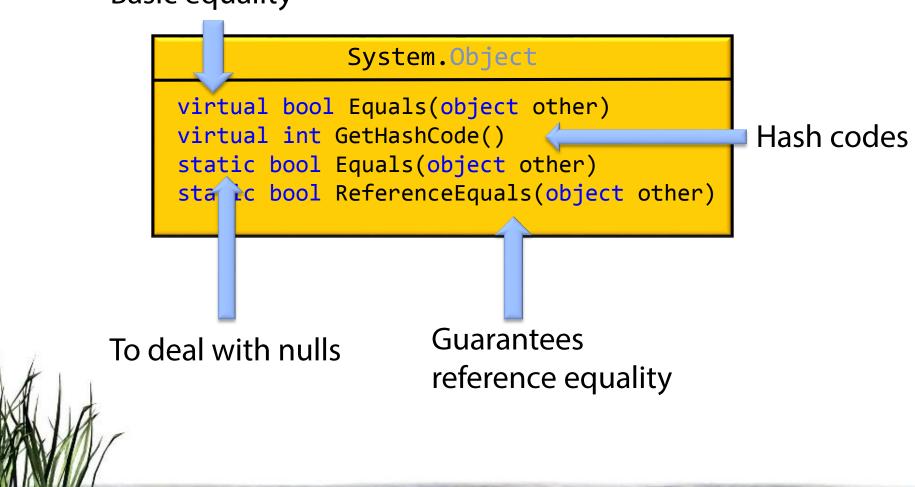
Methods/Operators

```
object.Equals()
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```

```
Interfaces
 IEquatable<T>
 IComparable<T>
 IComparer<T>
 IEqualityComparer<T>
```

The Methods

Basic equality



These all compile to static methods

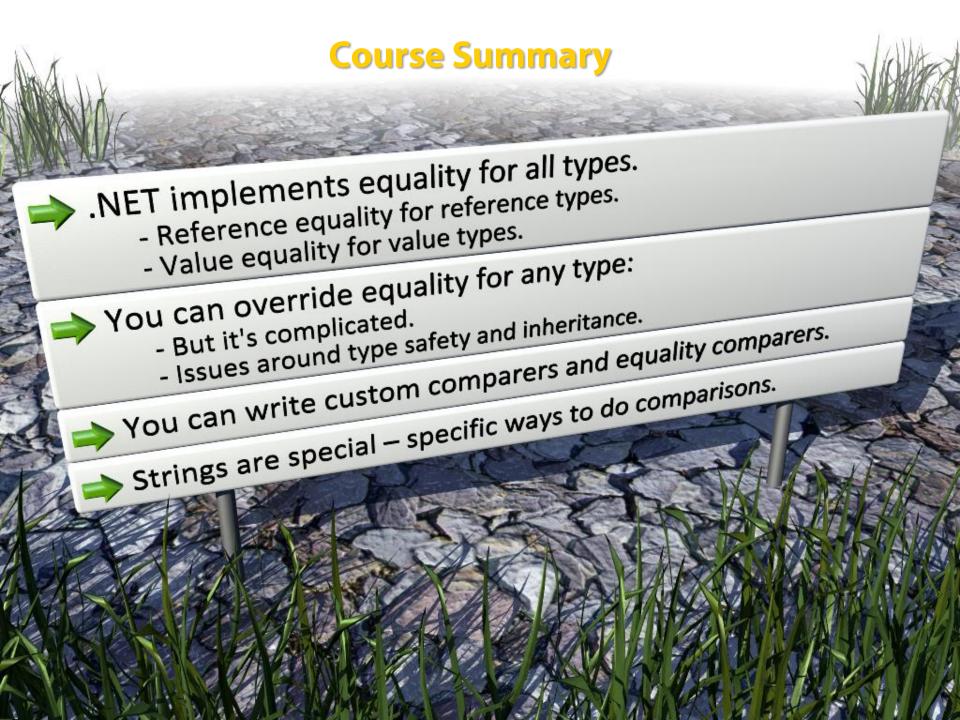
The Operators

Available on object

```
operator ==
operator !=
operator <
operator <=
operator >=
operator >=
```

All can be used with primitive numeric types

You can implement these as required on your types



C# Equality and Comparisons

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