



While much of the content is generic  
could apply to any platform  
I'm assuming a .NET environment, and where a language is necessary, C#



A crude metric

We all know the limitations of using LoC as the measure

BUT

This number seems to be pretty constant  
regardless of the environment!

Java, C#, Visual Basic, Cobol, Assembly, 4GL ...



If we're only (on average) writing 3200 lines of code per year

Let's make every line – every keystroke - count

## C. A. R. Hoare

There are two ways of constructing a software design: One way is to make it so simple that there are **obviously no deficiencies**, and the other way is to make it so complicated that there are **no obvious deficiencies**. The first method is far more difficult.

Writing Smart Code is about writing code that is obviously correct



Smart code is code:

That we can write faster – achieve more with each line  
That we can read faster – easier to understand, obviously correct

Nothing earth shattering  
Not claiming my examples are exhaustive – or necessarily beyond reproach  
Find your own balance  
Take these ideas and make them your own



### **Argument Validation**

Don't need to write the test everytime

*Require.NotNull()*

Can use an extension method if you prefer

*Contracts.MustNotBeNull()*

### **Working with a Poor API**

If the API is poor and can't be changed, Helpers can improve things

*Parameter*



### **Confirmation Dialogs**

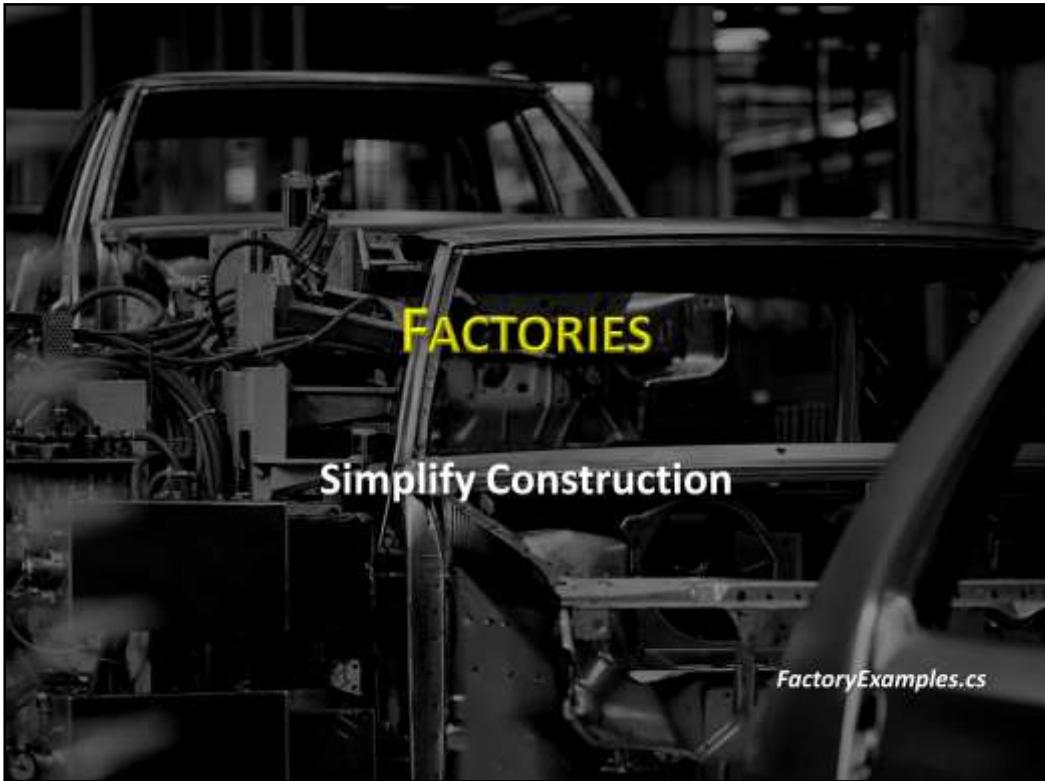
Don't you hate dialogs that read  
Do you want to delete the selected Item(s)?  
*AsCount()*

### **Report Building**

Limiting string width  
*Wrap() or Ellipsis()*

### **Enumerations**

Enumeration Flags helper  
Unfortunately, not generic  
*Includes()*



**TimeSpan()**

Factory method easier to read than usual constructor  
*Days(); Hours(); Minutes()*



### **StringBuilder**

Add a sequence of strings to a StringBuilder  
*AppendAll(); AppendLines();*

### **Lists of Names**

Turn a list of names into a string  
*JoinWith()*



Some Takeaways from tonight

Smart code is about code  
that is faster to write  
and easier to read

The examples demonstrated tonight might be useful  
but they're not the end in themselves



**Thank You**

**bevan@nichesoftware.co.nz**  
**<http://www.nichesoftware.co.nz>**