forget about the new

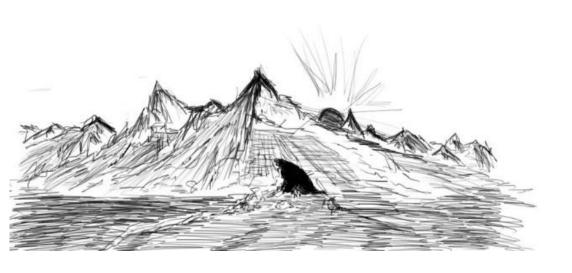
@tomkuj



you are going to stop using new() operator

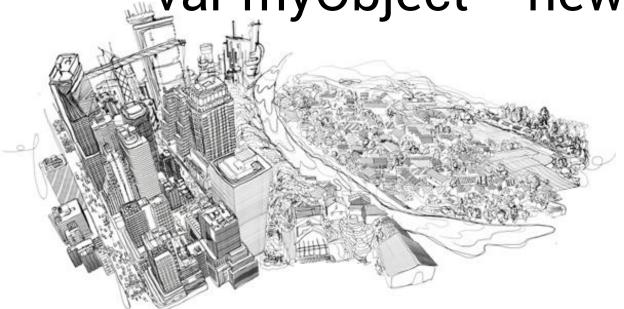
how the world looks now?

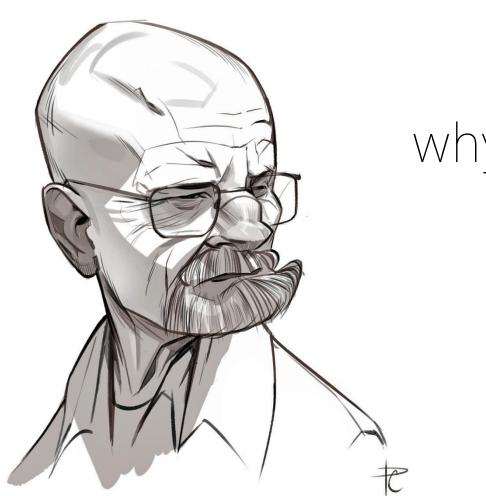
object myObject = new object();



how the world looks now?

var myObject = new MyClass(obj1, obj2);





why is it so bad?

managing the dependencies between objects



```
public class MyClass
{
    public MyClass(SqlConnection connection, OtherObject obj)
    {
        ///...
    }
}
```

http://tinyurl.com/roslyn-method-compiler

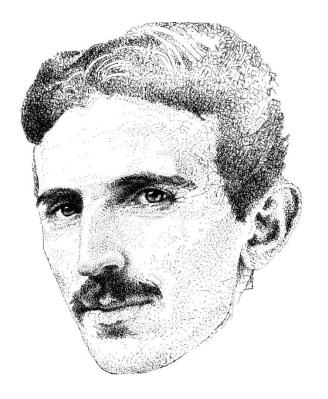
```
▼ Src
   .nuget
  ▼ Compilers
     Core
     ▼ CSharp
        ▶ csc
        ▶ csc2
        Desktop
        ▼ Portable
           Binder
           BoundTree
           CodeGen
           Compilation
           ▼ Compiler
                AnonymousTypeMetho
                ClsComplianceChecker
                Compiler.cs
                DocumentationComme
                DocumentationComme
                DocumentationComme
                EntryPointCandidateFir
```

MethodBodySynthesize

MethodBodySynthesize
MethodCompiler.cs

```
MethodCompiler.cs
                                                     Compare with other versions: Select version
         public static void CompileMethodBodies(
            CSharpCompilation compilation,
            PEModuleBuilder moduleBeingBuiltOpt,
            bool generateDebugInfo,
            bool hasDeclarationErrors,
            DiagnosticBag diagnostics,
            Predicate<Symbol> filterOpt,
            CancellationToken cancellationToken)
            Debug.Assert(compilation != null);
            Debug.Assert(diagnostics != null);
            using (Logger.LogBlock(FunctionId.CSharp_Compiler_CompileMethodBodies, message: compil
                if (compilation.PreviousSubmission != null)
                    // In case there is a previous submission, we should ensure
                    // it has already created anonymous type/delegates templates
                    // NOTE: if there are any errors, we will pick up what was created anyway
                     compilation.PreviousSubmission.EnsureAnonymousTypeTemplates(cancellationToken)
                    // TODO: revise to use a loop instead of a recursion
```

hard to test



how to avoid that?

Inversion of Control

Dependency Injection

```
public class MyClass
{
    public MyClass(IConnection connection, IOtherObject obj)
    {
        ///...
    }
}
```



0_greeter.zip

- 1. Run it. This is simple application.
- 2. Check the configuration file GreeterApp.exe.config
- 3. There are two implementations of **IAnswerer** provided:
 - 1.PolishAnswerer
 - 2. EnglishAnswerer
- 4. Stop application, change the interface in a proper place rerun.



1_writer.zip

Print the actual time.

REQUIREMENTS:

- different outputs + colors + other?
- time in different formats



your task:

http://tinyurl.com/ioc-1-writer



easy to test loose coupling easy to change objects impl q&a