



How CROSS PLATFORM is your .NET?

Jb Evain
jb @ db4o.com

db4objects Inc.

- <http://www.db4o.com>

Google's Summer of Code

- 2005 on Cecil, 2006 on the linker

Cecil and projects around

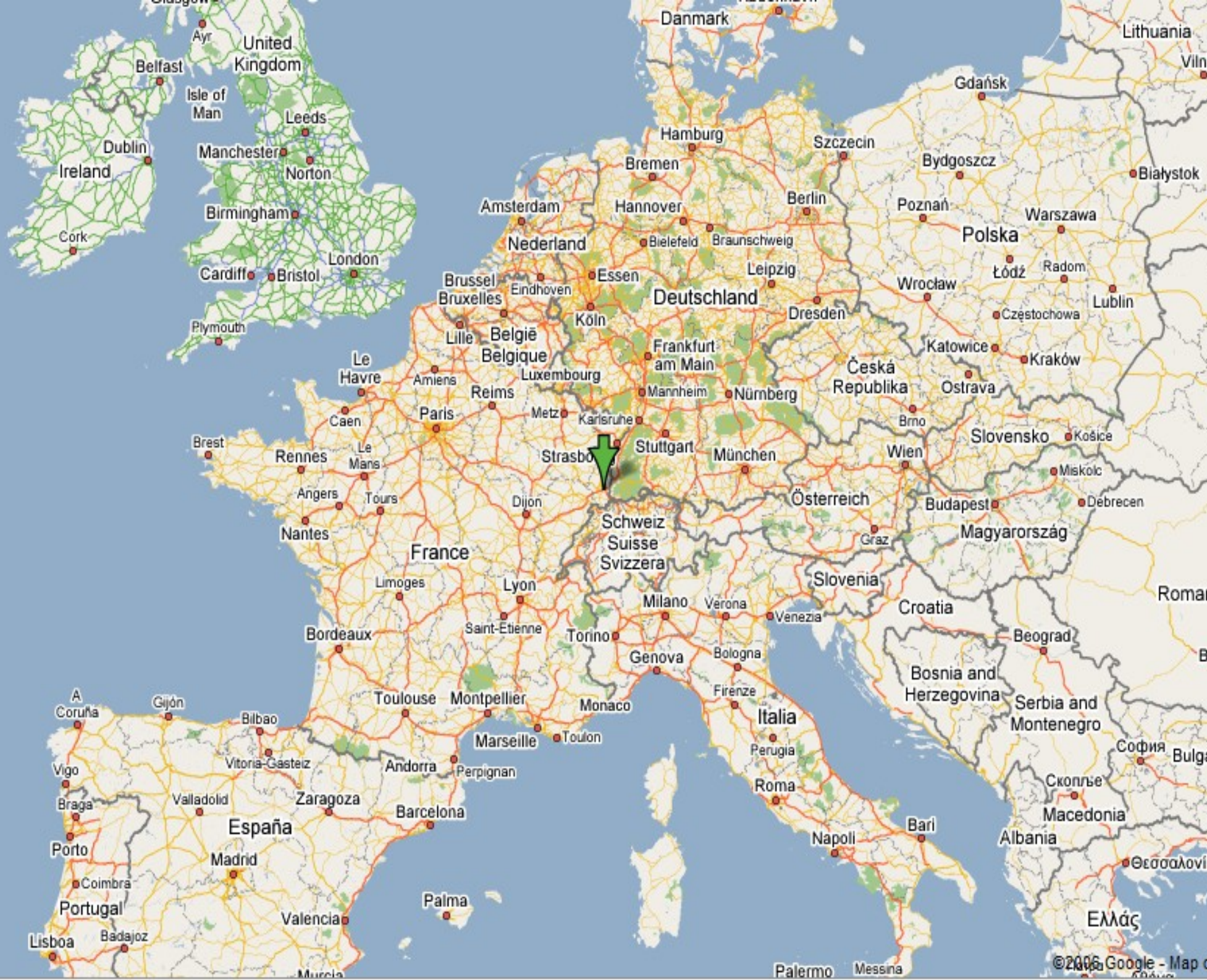
what is Cecil?

it's not the name of my
girl friend

it's not the name of my
boy friend either

A young woman with brown hair tied in a bun, looking down at a laptop screen. She is wearing a blue top and a thin necklace. The background is a plain white wall.

• Anaëlle



let's go back to Cecil

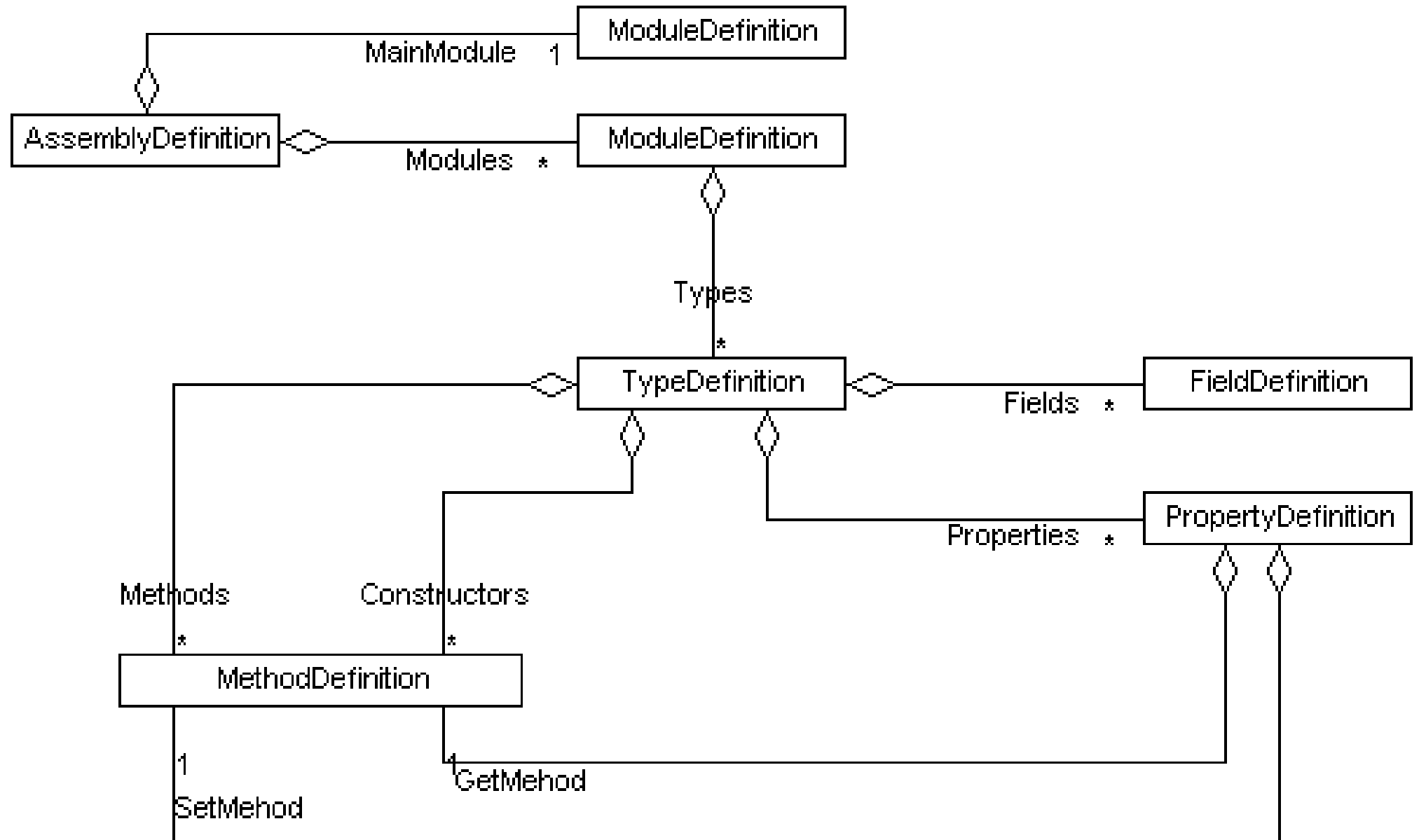
Cecil just ends with CIL

Common Intermediate Language

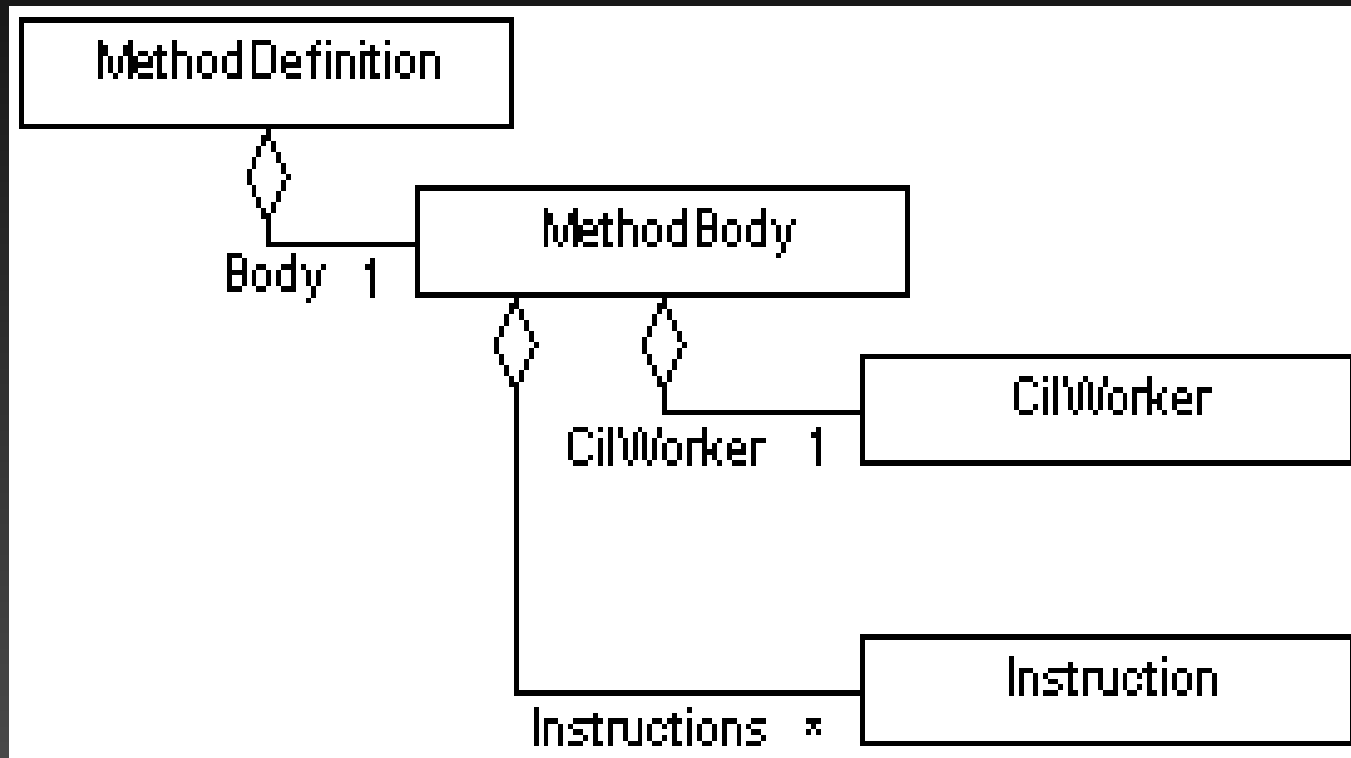
« Cecil is a library to generate and inspect programs and libraries in the ECMA CIL format. »

- <http://mono-project.com/Cecil>

Assembly



Method



benefits

- Assemblies are not « loaded »
- Doesn't load the referenced assemblies
- Works with assemblies emitted for another framework
- It works on Microsoft's Compact Framework
- Fills the lacks of `System.Reflection.Emit`

when not to use Cecil?

as soon as you think
« dynamic »

who uses Cecil?

MonoDevelop

- <http://www.monodevelop.com>

mdb

- <http://mono-project.com/Debugger>

Gendarme

- <http://mono-project.com/Gendarme>

db4o

- <http://www.db4o.com>

Mainsoft's GrassHopper

AspectDNG

- <http://aspectdng.tigris.org>

Evaluant's EUSS

- <http://euss.evaluant.com>

NDepend

- <http://www.ndepend.com>

SharpDevelop

- <http://www.sharpdevelop.com>

the assembly linker

- <http://mono-project.com/Linker>

demo

next step: debug symbols

the assembly linker

i'm still looking for a
cool name

«The linker is a tool one can use to only ship the minimal possible set of functions that a set of programs might require to run as opposed to the full libraries»

- <http://mono-project.com/Linker>

*« I don't know half of you
half as well as I should
like; and I like less that
half of you half as well
as you deserve. »*

how does it work?

mark & sweep

the linker + mkbundle :
secret weapon

demo

a cool idea:
improve the linker to
produce a Compact Mono

my secret next project

Milo

- Rodrigo B. de Oliveira



generic compiler backend
for the CLI

primitive types for:
Ast,
Compilation, Decompilation

It's still a vaporware at
this time

others cool projects to do
with Cecil

ilasm/ilasm

peverify

