PV178: Programming for .NET Framework
Introduction to .NET and C# (seminar)

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Outline

- Write, compile and run HelloWorld.cs
- See resulting CIL code and metadata
- Work with Visual Studio
- More elaborated example

HelloWorld.cs

Do it yourself :-)

Compile etc.

- `csc HelloWorld.cs` (or maybe
  `c:\windows\microsoft.net\framework\v3.5\csc`).
- see the created file (`notepad HelloWorld.exe`).

- disassemble using
  `monodis --output HelloWorld.cil HelloWorld.exe`
  and see the result.

SimpleDataStructures

- Download, unzip and open `SimpleDataStructures.zip` from
  https://is.muni.cz/auth/el/1433/jaro2009/PV178/um/codes/

SimpleDataStructures – tasks

1. How do we define a class that is a subclass of another class.
2. How do we work with "setters" and "getters"?
3. Find the following keywords in the code and try to explain what is their meaing: `throw`, `override`, `default`, `params`, `var`, `value`.

Homework

- No homework for this week. . .
- . . . but. . .
  - What is the worst-case complexity of inserting n elements to a list that already contains m elements? Is there any simple way to improve it?