



IT-byen

KATRINEBJERG

VITAMINARS

What is a Compiler? We thought we knew...

Department of Computer Science, Aarhus University presents: Distinguished talk by Mads Torgersen, Microsoft



Mads Torgersen is a Program Manager at Microsoft, where he oversees the evolution of the C# language. He has also contributed to the design of Visual Basic, Typescript and LINQ and was involved in the Roslyn project since its beginning. Before joining Microsoft in 2005, Mads

was a Research Associate Professor at Department of Computer Science, Aarhus University, where he also dabbled in program languages.

The talk is part of the Friday Lectures held by Department of Computer Science, Aarhus University

For information on other Friday lectures, please see our web page: cs.au.dk/news-events/friday-lectures/

The Roslyn project is an unusual take on industrial-grade compilers. Written in C# for C# (and Visual Basic for Visual Basic), Roslyn is an open-source, full-fidelity syntactic and semantic API for code that works efficiently in both batch and interactive scenarios. Roslyn shipped last year, replacing Microsoft's old compilers and is empowering a groundswell of coding and analysis tools across the community.

In this talk we'll use Roslyn to live-code a simple but functional code analysis and dig into the (sometimes surprising) architectural choices and nifty underlying data structures that make Roslyn approachable, resilient, scalable and efficient. Hint: it's not how we learned to do it in school! We'll also talk about the many challenges that come from trying to be everything to everyone - and doing it well. Roslyn is open source, and I hope to encourage you all to play with it!

DATE: Friday, October 7th, 2016

TIME: 14:00-15:00

PLACE: Nygaard-building (5335), Peter Bøgh Andersen
Aud. Helsingforsgade 12, 8200 Aarhus N.

REGISTRATION: Registration is not necessary

ABOUT VITAMINARS

When IT pioneers visit Katrinebjerg, we open the doors for you and your business. IT-byen Katrinebjerg's free vITaminars give you the opportunity to meet international researchers, entrepreneurs and business leaders who are passionate about their contribution to IT and digitisation.



VITAMINARS are arranged by the partners in IT-byen Katrinebjerg