

99 bottles of beer (bachelor seminar)

Georg Moser

Institut für Informatik © UIBK

Sommersemester 2015



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- collection of 1361 programming languages, all producing (at least) the lyrics of the song “99 bottles of beer”
- collection contains sensible and very weird languages like Malbolge

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- we analyse
 - 1 limitation of languages
 - 2 distinguished features of languages
 - 3 the power of esoteric languages
 - 4 languages for dedicated purposes

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- we look at 15 programming languages with different, unrelated background (**not** elsewhere discussed)
- we analyse
 - 1 limitation of languages
 - 2 distinguished features of languages
 - 3 the power of esoteric languages
 - 4 languages for dedicated purposes
- every student gets one language (and supervisor), gives a **presentation**, writes a **seminar report**

Limitations of the Language

- 1 brief history and “vision”
- 2 actual use of the language
- 3 differences to similar (well-known) languages like
 - C(++)
 - Haskell
 - Java
 - OCaml
 - Open(C+G)L
 - Prolog, ...

if there is any similarity

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Distinguished Features of the Language

- describe the (non-standard) features of the languages in detail
- examples of use, simple introduction
- did these features make sense, where they used?

Esoteric Languages

- expand on “vision”
- did features of these language become standard in the meantime?
LISP was considered esoteric when it was first considered
- how hard is it to program in this language?
Malbolge is nowadays studied as “secure” language

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Dedicated Purposes of the Language

- necessity of creation
- what would programmers use, if the language would disappear?
- give (a set of) languages that could be used instead, explain your answer
- has the goal been achieved?
Logo was meant to teach kids how to program, has this had any effect?

Languages No 1–8

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programming language that joins Client JavaScript and Servercode

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- Neuron; programming neural networks

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- The Hume Programming Language
functional language for embedded systems

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btw: this is your work, not the work of your supervisor

Assignment of Languages

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Christopher Naschberger

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Michael Staudacher

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Yagmur Sentürk

Assignment of Languages

Benjamin Vettori

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Manfred Moosleitner

Assignment of Languages

Martin Karrer

Assignment of Languages

Samuel Ruppachter

Assignment of Languages

Manuel Schischkoff

Assignment of Languages

Sabine Oberleiter

Assignment of Languages

David Oberhollenzer

Assignment of Languages

Roman Reinold

Assignment of Languages

Bernhard Behr

Assignment of Languages

Johannes Tscholl

Assignment of Languages

Bernhard Behr

Martin Karrer

Manfred Moosleitner

Christopher Naschberger

David Oberhollenzer

Sabine Oberleiter

Roman Reinold

Benjamin Vettori

Samuel Rupprechter

Manuel Schischkoff

Yagmur Sentürk

Stefan Spiß

Michael Staudacher

Johannes Tscholl

Benedikt Tuschter

Assignment of Languages

Stefan Spiß

Dates and Times

presentations June 12 & 19

reports July 31, 23:59 WCET