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> *Second, would-be programmers (CS majors or non-majors) should be exposed as early as possible to functional programming languages to gain experience in the declarative programming paradigm. The value of functional/declarative language abstractions is clear: they allow programmers to do more with less and enable compilation to more efficient code across a wide range of runtime targets.*

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> *First, computer science majors, many of whom will be the designers and implementers of next-generation systems, should get a grounding in logic, its application in design formalisms, and experience the creation and debugging of formal specifications with automated tools. . .*

Anwendung funktionaler Sprachen

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Facebook:

- Sigma: automatische regelbasierte Erkennung von Spam u.ä.
- wurde in Haskell neu implementiert
- verarbeitet mehr als eine Million Anfragen pro Sekunde

`https://code.facebook.com/posts/745068642270222/fighting-spam-with-haskell/`

Anwendung logischer Sprachen

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IBM:

- Watson: KI-Programm zur Beantwortung von Fragen in natürlicher Sprache
- Quizsendung Jeopardy (Feb. 2011): gewann gegen zwei menschliche Gegner
- Sprachverarbeitung mit Prolog

https://de.wikipedia.org/wiki/Watson_%28K%C3%BCnstliche_Intelligenz%29
http://www.cs.nmsu.edu/ALP/2011/03/natural-language-processing-with-prolog-in-the-ibm-watson-syste