

The future of languages

Conclusion for this course:

- That is all!
- My guess on where languages will be going: languages that combine:
 - **Multiparadigm**
 - High-level data structures
 - **With: speed, simplicity** (dynamic weakly typed)
- JavaScript frameworks, node.js, Google Go, Swift, and what else?
 - **More and more languages every day!!!** What should we learn? All!
 - Youtube is implemented with Python,
 - IBM Watson uses Prolog,
 - Wikipedia is implemented with PHP,
 - Microsoft F# is a functional programming language, etc.
 - More Scripting Languages: Writing programs by coordinating pre-existing components, rather than writing components from scratch.

The future of languages

- Scripting-style:
 - Speed : Trade almost everything for developer productivity
 - Economy of Expression
 - Lack of Declarations
 - Simple rules
 - Flexible dynamic typing
 - Access to the OS
 - Sophisticated string processing
 - High-level data structures: Maps, Lists, Tuples, Sets.
 - Batch and Interactive
 - Open and Portable
 - Single Canonical Implementation
 - Interpreted: Fast to start
 - Easily extended
 - Easily embedded

Future is here

HTTP URL Permissions Base64 Enhanced Verification Errors
Improve Contended Locking DocTree API Prepare for Modularization
Lambda (JSR 335) Remove the Permanent Generation
Generalized Target-Type Inference **Date/Time API (JSR 310)**
Bulk Data Operations **Java 8** Parallel Array Sorting
Limited doPrivileged Repeating Annotations
Compact Profiles Parameter Names **Nashorn**
Unicode 6.2 Configurable Secure-Random Number Generation
TLS Server Name Indication **Type Annotations (JSR 308)**
Lambda-Form Representation for Method Handles Fence Intrinsic

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Future is here

Press Esc to exit full screen mode.

Coroutines

Java on GPUs (Sumatra)

Reification

Self-Tuning JVM

Meta-Object Protocol

Multi-Tenancy

JNI 2.0

Java 9 ... and beyond

Modular Platform (Jigsaw)

More and More Ports

Tail Calls

Memory-Efficient Data Structures

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Captions

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The future of languages

- I'm hoping that this course prepared you for the change the future will bring in programming languages
- Thank you!