



Beyond Java? Programming in the 2010th decade

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Software Freedom Day 2013
RRZK building, Cologne, 09/21/2013



roadmap

- Intro // ~05'
- Java today // ~10'
- Java critics // ~15'
- Java achievements // ~10'
- Java replacements // ~15'
- Java future // ~10'



Java critics

1. bloated & overloaded

```
stefan@kalliope:/usr% du -hs /usr/lib64/jvm/jre-1.7.0-openjdk/lib
```

```
81M /usr/lib64/jvm/jre-1.7.0-openjdk/lib
```

2. syntax: too much boiler plate code

```
[..]
```

```
public static void main(String[] args) {  
    final boolean verbose = Boolean.FALSE;
```

```
[..]
```

3. only effective in combination with huge IDEs

```
stefan@kinemo:~/Desktop% du -hs /usr/local/eclipse
```

```
443M /usr/local/eclipse
```

4. Oracle owned and not open-source



Java critics

5. myriads of frameworks, libs, tools and stuff

Example: Ted Neward '..object-relational mapping is the Vietnam of Computer Science.'

<http://martinfowler.com/bliki/OrmHate.html#footnote-vietnam>

6. dynamic, evolving and sometimes backward

J2EE → JEE, WebServices and REST etc.

7. antique design and not 'top notch'

Imperiale vs. functionale programming languages

OO reference in education since years

8. slow development by Java community

GUI example: AWT, Swing, Java FX ...

closures in standard rt.lib etc.



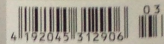
Java archiverments

- OO in the fields
- architectural modells
- tooling
- three tier with application server
- open standards
- DevOp, continous install./deploy/...
- TESTING!
- ...

Mit
Stellenanzeigen



DEVELOPER



€ 12,90

Österreich € 14,20
Schweiz CHF 25,80
Benelux € 14,80
Italien € 16,90

3/2013

**Auf der
Heft-DVD:**
Über 6 GByte
Software für
Entwickler

Visual Studio Team
Foundation Server 2012
mit Update 2, Eclipse,
NetBeans, IntelliJ IDEA, Qt,
Perforce, CI Server, Build-
Tools, viele kleine Helfer,
Buchauszüge, 29 Epi-
soden des Software-
ArchitektentOUR-
Podcasts

Bessere Software

Qualität für den gesamten Software-Lebenszyklus:
Continuous Delivery, Agile ALM, DevOps

Release-Management:

- Status quo der Versionskontrolle
- Einfache Tool-Integration
- Zeitgemäße Builds

Test-Driven Development:

- Die wichtigsten Testarten
- Qualität durch Code-Reviews

Requirements Engineering:

- Wie gute Anforderungen entstehen
- Dokumentation in agilen Projekten

Qualitätssicherung:

- Was sich durch die Cloud ändert
- Agilität und Prozessreifegrad-Modelle

Datenträger enthält
Info- und
Lehrprogramme
gemäß § 14 JuSchG



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Java replacements?

- o Scala

 - cool, Oderski stuff // the jit inventor

 - mix von OO und functional – interesting

- o Closure

 - lisp stuff, lisp terse and lisp wide spread

- o (j)python

- o (j)ruby und andere (j) Kandidaten

- o php and other light-weight stuff

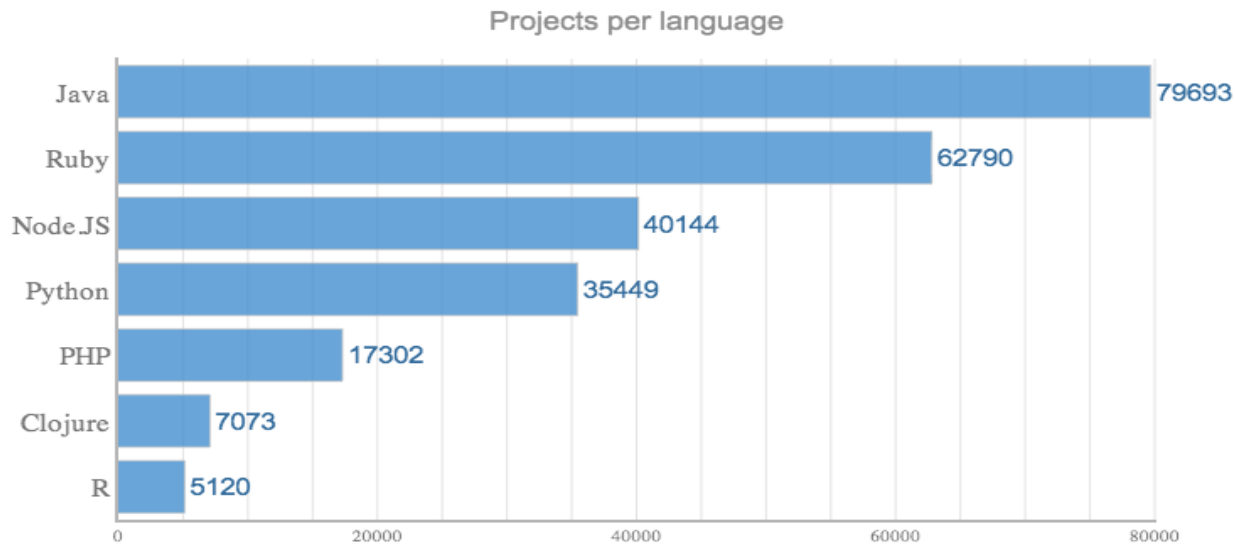
- o Java 8! Still kickin' and the new features, ability to react



Java in OpenSource

Statistics

The numbers below are collected from more than 50 different repository servers on the Internet, i.e. repository servers such as RubyGems.org, pypi.python.org, packagist.org and more than 40 Maven repository servers. SCM tools such as GitHub or BitBucket are not included.



The trend chart shows how fast the repositories are growing over time.



Java future

Conclusion:

- No real successor in sight
- polyglot is the new theme
- Java only environments are going down



survey && discussion

- Q & A?