Java 8 (a.k.a 1.8)

JSR 337, what's new

Language changes:

- lambda expressions (JSR 335, includes method handles)
- continuation of Project Coin (small language improvements)
- annotations on Java types

Library changes:

• Improved Date and Time API

Java 7 (a.k.a 1.7)

JSR 336, features and enhancements

Language changes:

- Project Coin (small changes)
 - switch on Strings
 - try-with-resources
 - diamond operator

Library changes:

- new abstracted file-system API (NIO.2) (with support for virtual filesystems)
- improved concurrency libraries
- elliptic curve encryption
- more incremental upgrades

Platform changes:

• support for dynamic languages

Java 6 (a.k.a 1.6)

JSR 270. features and enhancements

Mostly incremental improvements to existing libraries, no new language features (except for the <code>@Override snafu</code>).

Java 5 (a.k.a 1.5)

JSR 176, features and enhancements

Language Changes:

- **generics** (that's the big one)
- annotations
- enum types
- varargs, enhanced for loops (for-each)

Library changes:

• concurrency utilities in java.util.concurrent

Java 1.4

JSR 59

Language changes:

• the assert keyword

Library changes:

- regular expressions support
- NIO
- integrated XML handling

Java 1.3

Mostly minor improvements, really.

Platform changes:

• HotSpot JVM: improvement over the original JIT

Java 1.2

Language changes:

• the strictfp keyword

Library changes:

- a unified collections system
- Swing as a new UI-System on top of AWT

Platform changes

• a real JIT, greatly improving speed

Java 1.1

Language changes:

• inner classes

Library changes:

- AWT event changes
- JDBC, RMI
- reflection