

引言

1. 什么是 JVM ?
2. 学习 JVM 有什么用 ?
3. 常见的 JVM
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什么是 JVM ?

定义:

Java Virtual Machine - java 程序的运行环境 (java 二进制字节码的运行环境)

好处:

- 一次编写，到处运行
- 自动内存管理，垃圾回收功能
- 数组下标越界检查
- 多态

比较:

jvm jre jdk

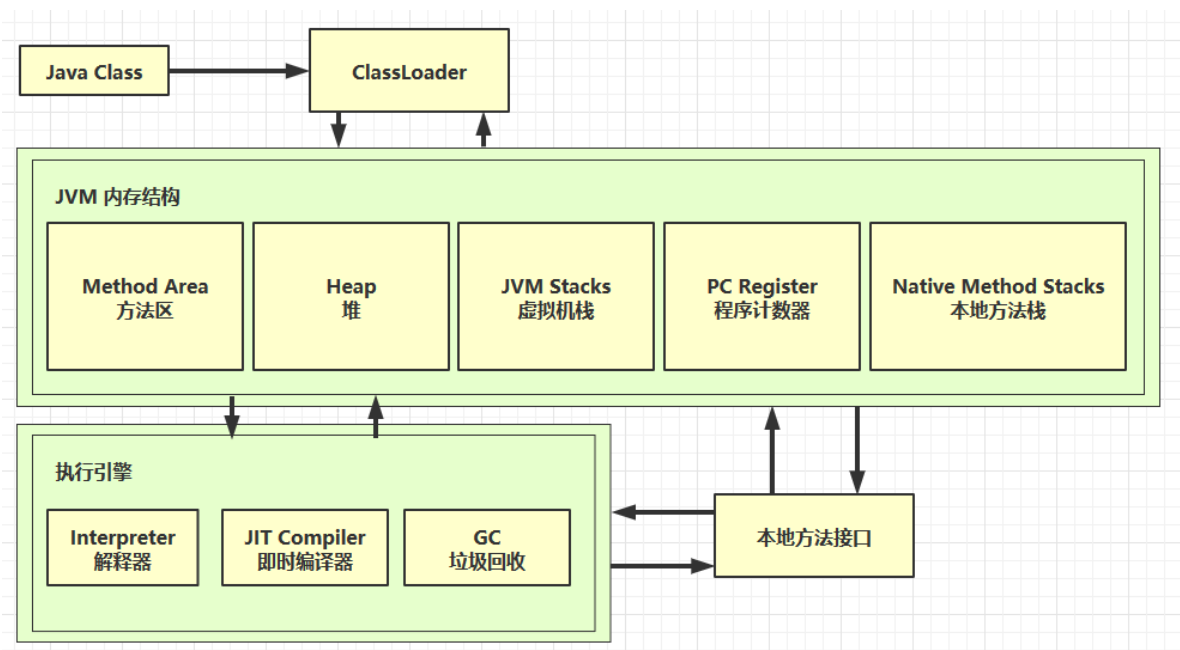
学习 JVM 有什么用？

- 面试
- 理解底层的实现原理
- 中高级程序员的必备技能

常见的 JVM

Name ↕	Creator ↕	First public release ↕	Latest stable version	Latest release date ↕	Cost, availability ↕	License ↕
CACAO	Vienna University of Technology	?	1.6.0 ^[1]	4 September 2012 ^[1]	Free	GPL version 2 or later ^[2]
Eclipse OpenJ9 (formerly IBM J9)	IBM	?	0.8.0	15 March 2018 ^[3]	Free	Apache License 2.0 Eclipse Public License 2.0
GCJ	GNU	6 September 1998	6.4 (Terminal)	4 July 2017	Free	GPL version 2 or later, with the "libgcc exception" ^[4]
HotSpot, OpenJDK edition	Sun Microsystems, Oracle	27 April 1999	?	21 September 2017	Free	GPL version 2 only
HotSpot, Oracle JDK edition	Sun Microsystems, Oracle	27 April 1999	?	September 2017	Free	Proprietary
HotSpot, Java SE embedded edition	Sun Microsystems, Oracle	27 April 1999	?	?	Commercial	Proprietary ^[5]
HotSpot, Zero port	Gary Benson ^[6]	?	?	?	Free	GPL version 2 only
IKVM.NET	Jeroen Frijters	28 June 2004	7.0.4335.0	5 December 2011	Free	zlib License ^[7]
JAmiga	Peter Werno, Joakim Nordström	19 May 2005 ^[8]	1.2	6 January 2014	Free	GPL version 2 or later
JamVM	Robert Lougher	13 March 2003	2.0.0	30 July 2014	Free	GPL version 2 or later
Jato VM	Pekka Enberg and contributors ^[9]	?	0.3 ^[10]	4 January 2012 ^[10]	Free	GPL version 2 only ^[9]
JC virtual machine	Archie L. Cobbs	?	1.4.7	13 November 2005	Free	LGPL version 2.1 or later

学习路线



[参考资料](#)