

# **Abstracting Abstract Machines [AAM] like JikesRVM/HeraJVM/MetascalaVM by Using Dr.Racket with Macros & Redex-AAM Concepts + Java/Scala Programming Languages -> To Probe Compiler DNA option/s by Testing : JI Prolog/ImageJ/Fiji R&D/OpenJIT Software in [ Eclipse IDE & NetBeans IDE ] JVM based Computing Environments - A Simple Suggestion.**

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*[ Exploring Dr.Racket based Hi-End Computing by involving JVM Languages + AI + IoT -> A Superb Combination for R&D ]*

## **[I] Main Idea & Inspiration :**

<https://dvanhorn.github.io/redex-aam-tutorial/>

<https://www.jikesrvm.org/> && <https://github.com/lihaoyi/Metascala> && <https://www.scala-lang.org/>

<https://www.java.com/en/> && <https://www.openjit.org/>

Hera-JVM: Abstracting Processor Heterogeneity Behind a Virtual Machine - [https://www.usenix.org/legacy/event/hotos09/tech/full\\_papers/mcilroy/mcilroy.pdf](https://www.usenix.org/legacy/event/hotos09/tech/full_papers/mcilroy/mcilroy.pdf)

<https://www.javatpoint.com/q/2881/why-jvm-is-abstract-machine?>

<https://racket-lang.org/> && <https://github.com/celskeggs/racket-jvm> &&

[ **Our main inspiration** : <https://www.embeddedcomputing.com/technology/software-and-os/ides-application-programming/10-programming-languages-for-iot-development-in-2021>]

## **[II] R&D Informatics Framework :**

Testing in progress.Hope to present more information on these topics in the near future.**Thanks for understanding - Dr.Nirmal.**

**[III] Acknowledgment/s** : Non-Profit R&D.Sincere thanks to all.

## **[IV] Additional Information :**

[a] <https://github.com/tejdnk-2019-ShortNotes> -> **Plenty of Examples for you dear Readers - Thanks for encouraging us - Dr.Nirmal.**

## **[V] Conclusion/s :**

Dr.Racket/Redex based AAM Concepts are very much interesting to probe Compiler DNA Options w.r.t JikesRVM & HERA JVMs for Advanced Image Processing/IoT Informatics Frameworks in the near future.Not an Easy or Straight Forward Method - Keep Hacking Dear Friends.  
Thanks for your time.

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