Chemical Organization Theory as a Theoretical Base/R&D Tool for Chemical Computing Using Ruby + ruby-GSL + Tuples + Bio-Ruby + mruby + ANTLR + AI/ML → Next Generation Chemical Computing [NGCC] & QRNG + HPC + Smart Devices + IoT Framework.

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[I] Idea + Inspiration + Introduction :

Ruby based General Theoretical Framework to master Self-organization in Complex Bio-Chemical Information Systems.
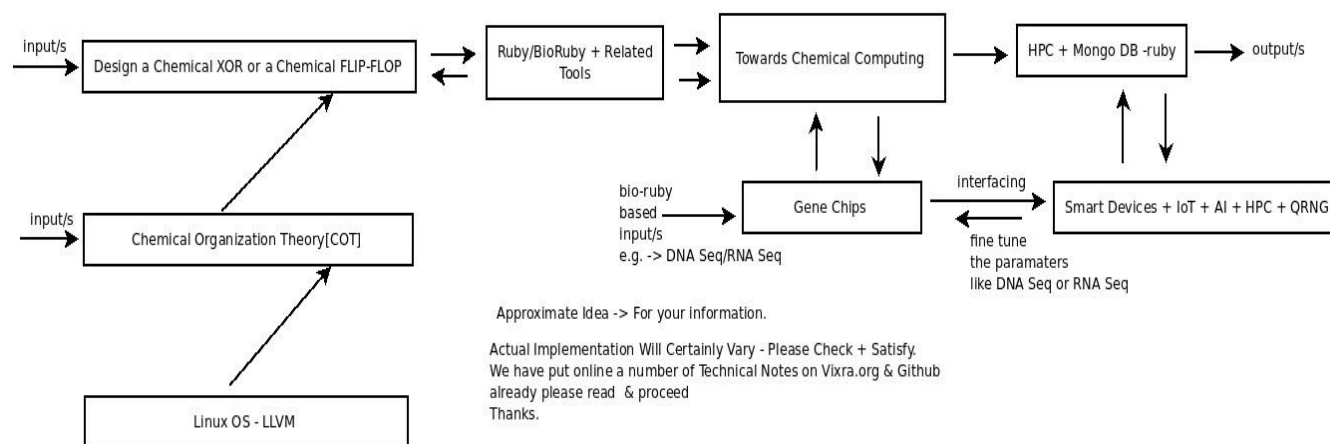
[II] R&D Informatics Framework involving Chemical Orgn.Theory + Chem Computing :

DESIGNING NEXT GENERATION CHEMICAL COMPUTING PLATFORMS WITH RUBY + BIO-RUBY + ANTLR + AI + HPC SYSTEMS
WE ARE USING TUPLES + RUBY-GSL + RUMALE + AI4R + LLRB + OTHER RELATED MATHEMATICAL CONCEPTS
ONE OF THE PIONEERING R&D EFFORTS IN THIS DOMAIN.
AS EXPECTED RUBY DID NOT DISAPPOINT US -> HENCE, IT IS WORTH TESTING THESE NOVEL IDEAS WITH RUBY + BIO-RUBY + mruby + QRNG + BIG DATA etc...

input/s → Design a Chemical XOR or a Chemical FLIP-FLOP ⇄ Ruby/BioRuby + Related Tools → Towards Chemical Computing → HPC + Mongo DB -ruby → output/s

input/s → Chemical Organization Theory[COT]

Linux OS - LLVM

bio-ruby based input/s e.g. -> DNA Seq/RNA Seq → Gene Chips

interfacing

fine tune the paramaters like DNA Seq or RNA Seq

Smart Devices + IoT + AI + HPC + QRNG

Approximate Idea -> For your information.

Actual Implementation Will Certainly Vary - Please Check + Satisfy.
We have put online a number of Technical Notes on Vixra.org & Github
already please read & proceed
Thanks.

SIMPLE ALGORITHM I - ADVANCED CHEMICAL COMPUTING + INFORMATICS FRAMEWORK -> TO PROBE GENE CHIPS.
TESTING IN PROGRESS.
PLEASE SEE OUR NOTES AND OTHE RELATED LITERATURE
THANKS FOR UNDERSTANDING -> Dr.Nirmal.

[Figure I – Algorithm I – Advanced Chemical Computing & Informatics Framework]

[III] References + Other Information :

[a] in: Workshop on Unconventional Computing C. Teuscher, A. Adamtzky, Editors,pp. 71-83,Luniver Press,Beckington, 2005, ISBN 978-0-9551170-0-8;Chemical Organization Theory as a Theoretical Base for Chemical Computing Naoki Matsumaru, Florian Centler, and Peter Dittrich.

[b] Designing a chemical program using chemical organization theory → http://www.minet.uni-jena.de/csb/

[c] https://levelup.gitconnected.com/metaprogramming-in-ruby-df797b2f784f

[d] https://github.com/tejdnk-2019-ShortNotes

[e] For Ruby & its Related Tools → Please do a Google Search. Thanks.

[THE END]