



Active Maintainers/Creators

## About

Virtual Machine **VIREX** Assembly Language **SASM** Compiler **ORIN** Editor Support **VS Code** License **GPL3**

VIREX (VIRtual EXecuter) is a clean-room virtual machine built with clarity, extensibility, and education in mind. The project is maintained by two core developers who each own a unique layer of the system.

=== "Soham Metha"



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(https://en.wikipedia.org/wiki/C_(programming_language)) [![]
(https://img.shields.io/badge/Project-VIREX-success)]() [![]
(https://img.shields.io/badge/Project-SASM-success)]()
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> **Role**: Lead Developer

> **Modules Owned**: VIREX VM, SASM Assembler, VS Code Extension, Docs

- Designed the **VIREX** Virtual Machine architecture.
- Developed the **SASM Assembler** and complete instruction set.

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- Built tooling: AST visualizer, debug tools, and VS Code syntax extension.
- Authored all core documentation.
- Maintains the monorepo, versioning, and long-term roadmap.

> "VIREX is a hands-on way to explore systems programming, not just study it."
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=== "Omkar Jagtap"



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(https://en.wikipedia.org/wiki/C_(programming_language)) [![]
(https://img.shields.io/badge/Project-ORIN-orange)]() [![]
(https://img.shields.io/badge/Target-SASM-lightgrey)]()

> Role: Compiler Engineer - ORIN

> Modules Owned: ORIN Compiler (WIP), Custom Hashtable
Implementation

- Designing and implementing ORIN, the high-level language compiler
targeting SASM
- Handles the full compilation pipeline: parsing, IR generation, and
SASM output
- Exploring advanced features like expression optimization and static
analysis

> "ORIN aims to make high-level programming compatible with low-level
control."
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## Contact & Community

- GitHub: [github.com/sohammetha/virex](https://github.com/sohammetha/virex)
- Interested in contributing? Check out [CONTRIBUTING.md](#)

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*VIREX is open. Hackable. Minimal. Built for builders.*

## References

- [Tsoding](#)
- [Dr Birch](#)
- [Low Byte Productions](#)

- [Cobb Coding](#)
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