

!!! info inline end "Active Maintainers/Creators"

```
<figure markdown="span">
  ![Image](assets/credits.png)
  <figcaption>Active Maintainers/Creators</figcaption>
</figure>
```

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"



{ width="120px"

style="border-radius: 50%;"} }

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

> **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.
- 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."
```

=== "Omkar Jagtap"



{ width="120px" style="border-radius: 50%;" }

```
[![]](https://img.shields.io/badge/Language-C-blue)
(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."
```

---

## Contact & Community

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

---

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

## References

- [Tsoding](#)

- [Dr Birch](#)
  - [Low Byte Productions](#)
  - [Cobb Coding](#)
-