

!!! info inline end ""

```
<figure markdown="span">
  ![Image](assets/credits.png)
  <figcaption>Active Maintainers/Creators</figcaption>
</figure>
The project is maintained by two core developers who each own a unique
layer of the system.
```

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

!!! tip ""

=== "Soham Metha"

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<figure markdown="span">
  ![Soham's Avatar](https://www.github.com/Soham-Metha.png){
width="120px" style="" }
</figure>

> Role: Lead Developer <br>
> 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." <br>

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

=== "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."**

Acknowledgments

We'd like to thank:

- [Tsoding](#), [Dr Birch](#), [Low Byte Productions](#), [Cobb Coding](#) for foundational resources.
- The open-source ecosystems around JVM, and language tooling.
- Friends and testers who offered feedback during early development stages.

Contact & Community

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

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