![Image](assets/credits.png)

Active Maintainers/Creators
!!! warning ""

The project is maintained by two core developers who each own a unique layer of the system.

=== "Soham Metha"



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style="border-radius: 50%;padding: 4px;" }

- > **Role**: Lead Developer

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

!!! tip "info"

- 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.

```
!!! quote

*"VIREX is a hands-on way to explore systems programming, not just
study it."* <br>
[![](https://img.shields.io/badge/Language-C-blue)]
(https://en.wikipedia.org/wiki/C_(programming_language)) [![]
(https://img.shields.io/badge/Project-VIREX-success)]() [![]
(https://img.shields.io/badge/Project-SASM-success)]()
!!! quote ""
```

=== "Omkar Jagtap"



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```
> **Role**: Compiler Engineer - ORIN <br>
> **Modules Owned**: ORIN Compiler (WIP), Custom Hashtable
Implementation
!!! tip "info"
    - 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
!!! quote
    *"ORIN aims to make high-level programming compatible with low-level
control."*
[![](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)]()
!!! quote ""
```

!!! info inline end ""

```
!!! danger ""
[Soham-Metha/virex](https://github.com/Soham-Metha/virex)
```

```
<br>[GitHub Issues](https://github.com/Soham-Metha/virex/issues)
    <br>[GitHub Discussions](https://github.com/Soham-
Metha/virex/discussions)
    <br>[CONTRIBUTING.md](../CONTRIBUTING.md)
    <br>[roadmap](roadmap.md)
Contact & Community
!!! warning ""
Use the links above to explore the repository, report issues,
join discussions, contribute, or follow the project's development
roadmap.
```



Acknowledgments

We gratefully acknowledge the creators and communities that inspired and supported this project:

??? info "Educational Inspiration"

```
[Tsoding](https://www.youtube.com/playlist?list=PLpM-
Dvs8t0VY73ytTCQqgvgCWttV3m8LM), [Dr. Jonas Birch]
(https://www.youtube.com/@dr-Jonas-Birch), [Low Byte Productions]
(https://www.youtube.com/playlist?
list=PLP29wDx6QmW5DdwpdwHCRJsEubS5NrQ9b), [Cobb Coding]
(https://www.youtube.com/playlist?list=PLRnI_2_ZWhtCxHQ_3zDfW0-
RgiWo8ftyj) for their deep dives into compilers, virtual machines, and
systems programming.
```

• Ecosystem & Tools:

The open-source communities around the JVM, and language tooling landscape, for providing extensible blueprints and motivation.

• Early Support:

Friends, testers, and curious peers who gave feedback during the early stages of development.

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