

!!! info inline end ""

```
![Image](assets/credits.png)<br>
Active Maintainers/Creators
!!! warning ""
```

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

=== "Soham Metha"

```
![Soham's Avatar](https://www.github.com/Soham-Metha.png){ width="120px"
style="border-radius: 50%;padding: 4px;" }
```

```
> **Role**: Lead Developer <br>
> **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://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"

```
![Omkar's Avatar]
(https://www.gravatar.com/avatar/00000000000000000000000000000000?
d=mp&f=y){ width="120px" style="border-radius: 50%;" }
```

```
> **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-
Dvs8t0VY73ytTCQqvgCWttV3m8LM), [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](https://www.youtube.com/playlist?list=PLRnI_2_ZWhtCxHQ_3zDfw0-RgiWo8ftyj)) for their deep dives into compilers, virtual machines, and systems programming.

??? info "**Ecosystem & Tools**"

The open-source communities around the **Assembler and VM design**, and **Language tooling** landscape, for providing extensible blueprints and motivation.

??? info "**Early Support**"

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

---

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