

!!! info inline end ""

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

!!! question ""

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%;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."

[]
 ([https://en.wikipedia.org/wiki/C_\(programming_language\)](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"



{width="120px" style="border-radius: 50%;"}</p>
</div>
<div data-bbox="110 432 732 482" data-label="Text">
<p>> **Role**: Compiler Engineer - ORIN

> **Modules Owned**: ORIN Compiler (WIP), Custom Hashtable Implementation</p>
</div>
<div data-bbox="112 500 264 516" data-label="Text">
<p>!!! tip "info"</p>
</div>
<div data-bbox="111 533 886 634" data-label="List-Group">

- 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

</div>
<div data-bbox="112 651 214 668" data-label="Text">
<p>!!! quote</p>
</div>
<div data-bbox="112 686 849 717" data-label="Text">
<p>> *"ORIN aims to make high-level programming compatible with low-level control."*</p>
</div>
<div data-bbox="112 736 762 803" data-label="Text">
<p>[]

([https://en.wikipedia.org/wiki/C_\(programming_language\)](https://en.wikipedia.org/wiki/C_(programming_language))) [![]

(<https://img.shields.io/badge/Project-ORIN-orange>)]() [![]

(<https://img.shields.io/badge/Target-SASM-lightgrey>)]()</p>
</div>
<div data-bbox="112 820 243 837" data-label="Text">
<p>!!! quote ""</p>
</div>
<div data-bbox="81 873 439 890" data-label="Text">
<p>!!! info inline end "👉 Contact & Community"</p>
</div>

```
!!! 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)
```

Acknowledgments

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

- **Educational Inspiration:**

[Tsoding](#), [Dr. Jonas Birch](#), [Low Byte Productions](#), [Cobb Coding](#) 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.