

!!! 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**

=== "Soham Metha"



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

!!! tip ""

```
> 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."**


```
[]
(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"



{width="120px" style="border-radius: 50%;"}</p>
</div>
<div data-bbox="111 364 762 432" data-label="Text">
<pre>[]
(https://en.wikipedia.org/wiki/C_(programming_language)) [![]
(https://img.shields.io/badge/Project-ORIN-orange)]() [![]
(https://img.shields.io/badge/Target-SASM-lightgrey)]()</pre>
</div>
<div data-bbox="111 449 732 500" data-label="Text">
<pre>> **Role**: Compiler Engineer - ORIN

> **Modules Owned**: ORIN Compiler (WIP), Custom Hashtable
Implementation</pre>
</div>
<div data-bbox="111 517 872 617" 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

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<div data-bbox="111 635 862 667" data-label="Text">
<pre>> **"ORIN aims to make high-level programming compatible with low-level control."**</pre>
</div>
<div data-bbox="84 719 349 743" data-label="Section-Header">
<h2> Acknowledgments</h2>
</div>
<div data-bbox="81 759 234 774" data-label="Text">
<p>We'd like to thank:</p>
</div>
<div data-bbox="111 791 789 846" data-label="List-Group">

• [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.

</div>
<div data-bbox="84 863 389 884" data-label="Section-Header">
<h2> Contact & Community</h2>
</div>
<div data-bbox="111 899 450 917" data-label="List-Group">

• GitHub: github.com/sohammetha/virex

</div>

- Interested in contributing? Check out [CONTRIBUTING.md](#)

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