

!!! 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"



{ 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)]()
```

=== "Omkar Jagtap"



{width="120px" style="border-radius: 50%;"}</p>
</div>
<div data-bbox="111 381 762 449" 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="111 466 732 516" data-label="Text">
<pre>> \*\*Role\*\*: Compiler Engineer - ORIN <br>
> \*\*Modules Owned\*\*: ORIN Compiler (WIP), Custom Hashtable
Implementation</pre>
</div>
<div data-bbox="111 533 873 634" data-label="Text">
<pre>- 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</pre>
</div>
<div data-bbox="111 651 863 684" data-label="Text">
<pre>> \*\*ORIN aims to make high-level programming compatible with low-level
control.\*\*</pre>
</div>
<div data-bbox="84 736 349 760" data-label="Section-Header">
<hr/>
<h2>🙏 Acknowledgments</h2>
</div>
<div data-bbox="81 775 234 791" data-label="Text">
<p>We'd like to thank:</p>
</div>
<div data-bbox="111 807 789 863" data-label="List-Group">
<ul>
<li>• [Tsoding](#), [Dr Birch](#), [Low Byte Productions](#), [Cobb Coding](#) for foundational resources.</li>
<li>• The open-source ecosystems around JVM, and language tooling.</li>
<li>• Friends and testers who offered feedback during early development stages.</li>
</ul>
</div>
<div data-bbox="84 880 389 901" data-label="Section-Header">
<h2>🤝 Contact & Community</h2>
</div>

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

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

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