

!!! 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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```
[![]](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)]()
```

```
> Role: Lead Developer <br>
> Modules Owned: VIREX VM, SASM Assembler, VS Code Extension, Docs
- Designed the VIREX Virtual Machine architecture.
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- 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."
```

=== "Omkar Jagtap"



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[[!(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))]()

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

We'd like to thank:

- [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.

## Contact & Community

- 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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