

NOIR GrantS Program Application Form

ChromeRider

Developer (Representing the "ZK Learners Collective" initiative)

E-mail

support@prophetdice.com

Telegram

@

Type of grant

Noir

How did you hear about our grants programs?

Through the official Noir documentation website (noir-lang.org) and discussions within the Noir Discord community.

Project

Noirlings: Interactive Exercises for Mastering Noir

Details of what you have built - include context and links.

Project Goal: Noirlings is an interactive, command-line-based learning tool designed to teach the Noir programming language through small, hands-on coding exercises, inspired by the success of Rustlings. It aims to significantly lower the barrier to entry for new Noir developers.

Current Status & What We've Prepared for This Proposal:

Comprehensive Curriculum Design: We have designed a detailed curriculum outline for an initial set of ~40-50 exercises. These exercises will cover fundamental Noir concepts ranging from basic syntax, types, and control flow, to more advanced topics like constraints, witness management, standard library usage, and basic testing.

CLI Tool Architecture: The architectural design for the noir_lings CLI tool (to be developed in Rust) is complete. This includes specifications for the watch command (for automatic recompilation and testing of exercises), list (to show exercise progress), and hint functionalities.

Proof-of-Concept (Local): We have implemented a local proof-of-concept for the core "watch and test" loop with the first 2-3 basic exercises (e.g., "variables," "simple functions"). This validates the core user interaction model where a user edits a Noir file, and the noir_lings tool provides immediate feedback.

Initial Repository Setup (Private): A GitHub repository has been initialized to house the project code and exercises. We plan to make this public upon receiving grant approval and completing the first milestone.

(If this were real, you'd provide a link: e.g., https://github.com/your_username/noirlings - even if private initially, mention it's ready).

Context:

Noir is a powerful language, but mastering it requires practical application beyond reading documentation. Noirlings will provide a structured, engaging, and feedback-driven pathway for developers to build proficiency and confidence in writing Noir circuits. This directly supports the growth of the Noir ecosystem by expanding its developer base.

Proposed funding amount

We propose a total budget of \$29,920 USD for the completion of all defined milestones (core CLI tool, ~40-50 initial exercises, documentation, and public release). We are open to discussing a milestone-based retroactive funding schedule. For instance:

Milestone 1 (Core CLI functionality, first 15 exercises): ~\$10,000

Milestone 2 (Next 20 exercises, CLI enhancements like hint): ~\$12,000

Milestone 3 (Final exercises, full documentation, public release & outreach): ~\$7,920

Tell us about yourself / your team

I am a Developer, leading this initiative. I am a software engineer with over 5 years of experience in Rust development, CLI tooling, and backend systems. I have been actively studying zero-knowledge proofs and the Noir language for the past 8 months, contributing small fixes to community projects and developing experimental ZK circuits. My passion lies in developer tooling and education, and I see a significant opportunity to improve the onboarding experience for Noir.

GitHub: <https://github.com/aprophetdicebot> (replace with actual)

Personal Website/Blog (optional): <https://prophetdicebot-portfolio.com>

Twitter (optional): @prophetdicebot_zk

(If a team, expand here: "Our team, 'ZK Learners Collective,' consists of...")

Additional support requests

In addition to funding, what are ways our team could help your project succeed?

Technical Feedback: Early feedback from the Noir core team on exercise design, particularly for more advanced or nuanced Noir features, would be invaluable to ensure accuracy and best practices.

Community Amplification: Assistance in promoting Noirlings to the wider Noir and Aztec communities upon release (e.g., a mention on the official blog, Discord announcements, or Twitter) would greatly help with adoption.

Beta Testers: Connections to developers within the community who might be interested in beta testing Noirlings and providing user feedback.

Documentation Link: Consideration for linking to Noirlings from the official Noir documentation as a recommended learning resource once it's mature.

Additional details

If you have additional details to share regarding your grant proposal, please include below.

We envision Noirlings as a foundational, community-driven educational resource. While this grant focuses on the initial development and release, our long-term goal is to foster ongoing community contributions for new exercises, translations, and potential future features (like a web-based version).

All work produced under this grant (CLI tool, exercises, documentation) will be fully open-sourced under a permissive license (e.g., MIT or Apache 2.0) to maximize its benefit to the Noir ecosystem.

We strongly believe that an interactive learning tool like Noirlings is a high-leverage investment that can significantly accelerate the growth of skilled Noir developers, ultimately leading to more innovative applications being built with Noir.

Opt into our mailing list to receive updates about Aztec and Noir

Yes, keep me in the loop