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QUESTIONS?

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Formal Land

Formal verification for
everyday-life programs



OUR GOALS

COMMUNICATE

Make sure that Tezos can claim to be the first formally verified blockchain. Have a detailed proof roadmap that everyone can follow.

VERIFY

Avoid having code issues leading to bugs in production. Verify most of the protocol code. Synchronize tests and proofs.

DELIVER

Increase the trust to release user features quicker. Onboard more new developers with explicit code specifications.

WHAT WE DO

We develop techniques to bring formal verification to the smallest possible cost. Our key approach is to translate programs to similar-looking code in a proof system. We use the mature and expressive system Coq. We are behind the automated Coq translation of the Tezos protocol. We set up the translation pipeline. We write the proofs in a timely and planned manner. We extract specifications from the code. We show that going further than existing development methods is possible.

How can we help Tezos to grow further?

Code as you would prove.