

# ELECTORA WHITEPAPER

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ABSTRACT. Presenting a novel voting system designed to maximize privacy and minimize trust, while maintaining comprehensive verifiability. In this system, voters are able to validate their eligibility without disclosing their identities. Votes, securely encrypted, remain private throughout the voting period, and only become public once this period concludes. This feature provides an opportunity for any third party to audit the election process, from verifying the legitimacy of voter eligibility to the authenticity of the final vote tally, thereby promoting a robust and transparent democratic process.

Electora is a privacy preserving, trust minimized, voting system.

Call me Ishmael. Some years ago — never mind how long precisely — having little or no money in my purse, and nothing particular to interest me on shore, I thought I would sail about a little and see the watery part of the world. It is a way I have of driving off the spleen, and regulating the circulation. Whenever I find myself growing grim about the mouth; whenever it is a damp, drizzly November in my soul; whenever I find myself involuntarily pausing before coffin warehouses, and bringing up the rear of every funeral I meet; and especially whenever my hypos get such an upper hand of me, that it requires a strong moral principle to prevent me from deliberately stepping into the street, and methodically knocking people's hats off — then, I account it high time to get to sea as soon as I can. This is my substitute for pistol and ball. With a philosophical flourish Cato throws himself upon his sword; I quietly take to the ship. There is nothing surprising in this. If they but knew it, almost all men in their degree, some time or other, cherish very nearly the same feelings towards the ocean with me. [1]

There now is your insular city of the Manhattoes, belted round by wharves as Indian isles by coral reefs - commerce surrounds it with her surf. Right and left, the streets take you waterward. Its extreme down-town is the battery, where that noble mole is washed by waves, and cooled by breezes, which a few hours previous were out of sight of land. Look at the crowds of water-gazers there.

Anyone caught using formulas such as  $\sqrt{x+y} = \sqrt{x} + \sqrt{y}$  or  $\frac{1}{x+y} = \frac{1}{x} + \frac{1}{y}$  will fail.

The binomial theorem is

$$(x+y)^n = \sum_{k=0}^n \binom{n}{k} x^k y^{n-k}.$$

A favorite sum of most mathematicians is

$$\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}.$$

Likewise a popular integral is

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

**Theorem 0.1.** *The square of any real number is non-negative.*

*Proof.* Any real number  $x$  satisfies  $x > 0$ ,  $x = 0$ , or  $x < 0$ . If  $x = 0$ , then  $x^2 = 0 \geq 0$ . If  $x > 0$  then as a positive time a positive is positive we have  $x^2 = xx > 0$ . If  $x < 0$  then  $-x > 0$  and so by what we have just done  $x^2 = (-x)^2 > 0$ . So in all cases  $x^2 \geq 0$ .  $\square$

## 1. INTRODUCTION

This is a new section.

1.1. **Things that need to be done.** Prove theorems.

## 2. BACKGROUND

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## REFERENCES

- [1] Astley, R., & Morris, L. (2020). At-scale impact of the Net Wok: a culinarily holistic investigation of distributed dumplings. *Armenian journal of proceedings*, 61, 192–219.

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 URL: <https://github.com/theref>

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