“Let’s not try to define knowledge, but try to define zero-knowledge.”, Shafi Goldwasser.

Proofs have captured human imagination for thousands of years, ever since the publication of Euclid’s *Elements*, a book second only to the bible in the number of editions printed.

Plan:

• Proofs and algorithms
• Interactive proofs
• Zero knowledge proofs
• Propositions as types, Coq and other proof assistants.

22.1 EXERCISES

22.2 BIBLIOGRAPHICAL NOTES