

What is Programming?

Adam Kit Intro to Programming: Week 1



Agenda

- Brief history of solving problems
- The current state of programming
- Examples of problem solving with programming
- Next steps

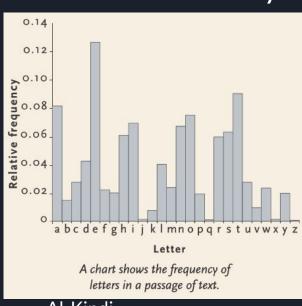


History •

- 8th century Music Machine
- 13th century Code Breaking
- 20th century Calculator



Banu Musa Brothers -Mechanical Flute Player



Al-Kindi -Cryptography



IBM 602 -First electronic computers - Data storage



Problem Solving Today

- How hard can making a cup of tea be?
- Solve the problem in chunks (methods/functions)
- Interpreting your solution (compiler)





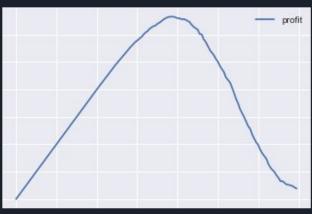
Example (supply_demand.py)

Problem: How to set a price for a product?

Number of Agents = 1000; Goods = 100

Normal distribution of income

Sum afford*value = demand





Next Steps

Hands on Examples?

Github pages?

Machine Learning?

Maths?

Documentation?