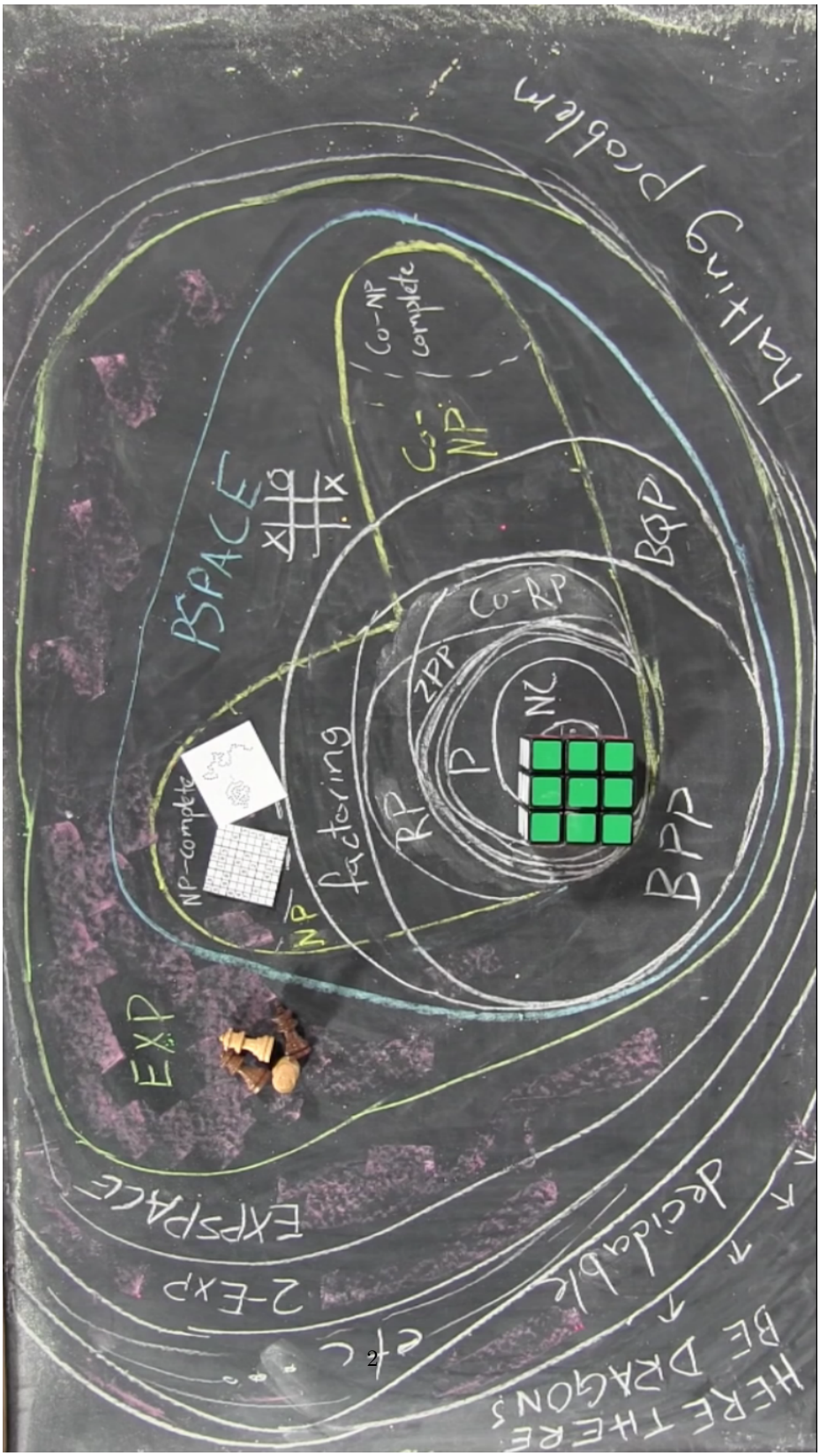
ordering the citations [2] [1] [3]

$\mathbf{P = NP}$ versus $\mathbf{P \neq NP}$

Time complexity applies to number theory, computer science, and combinatorics. Methods of encryption (*i.e.* RSA, Diffie-Hellman Key Exchange, Elgamod, DSA) rely heavily on the *hope* that $\mathbf{P \neq NP}$. Transactions with credit cards and sending other types of sensitive messages use complex encryption methods that use **LARGE** prime numbers. If $\mathbf{P = NP}$ then that means that exist methods to figure out and confirm what specific peoples' prime numbers use to encrypt and decrypt those messages quickly; which would imply that our entire economic systems would be built on a house of cards.


HERE THERE BE DRAGONS
etc.
2-EXP
EXPSPACE
decidable
Halting problem
EXP
NP-complete
NP
factoring
PSPACE
#P
Co-NP
Co-NP complete
BPP
BQP
RP
P
ZPP
Co-RP
NL

[2]

References

[1] Lance Fortnow. The computational complexity column. NEC Labratories America.

[2] hackdashery. P vs. np and the computational complexity zoo. YouTube.

[3] Michael Sipser. The history and status of the p versus np question. Massachusetts Institute of Technology.