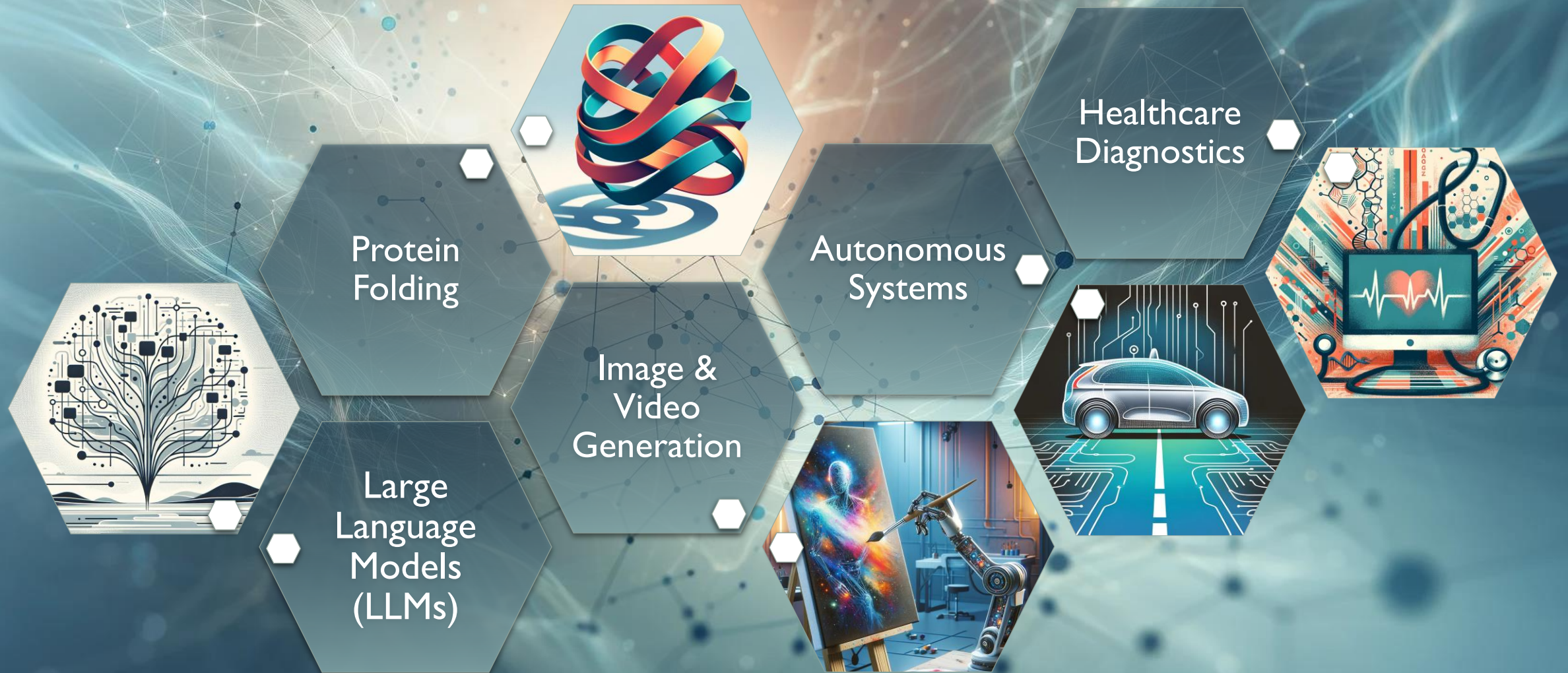




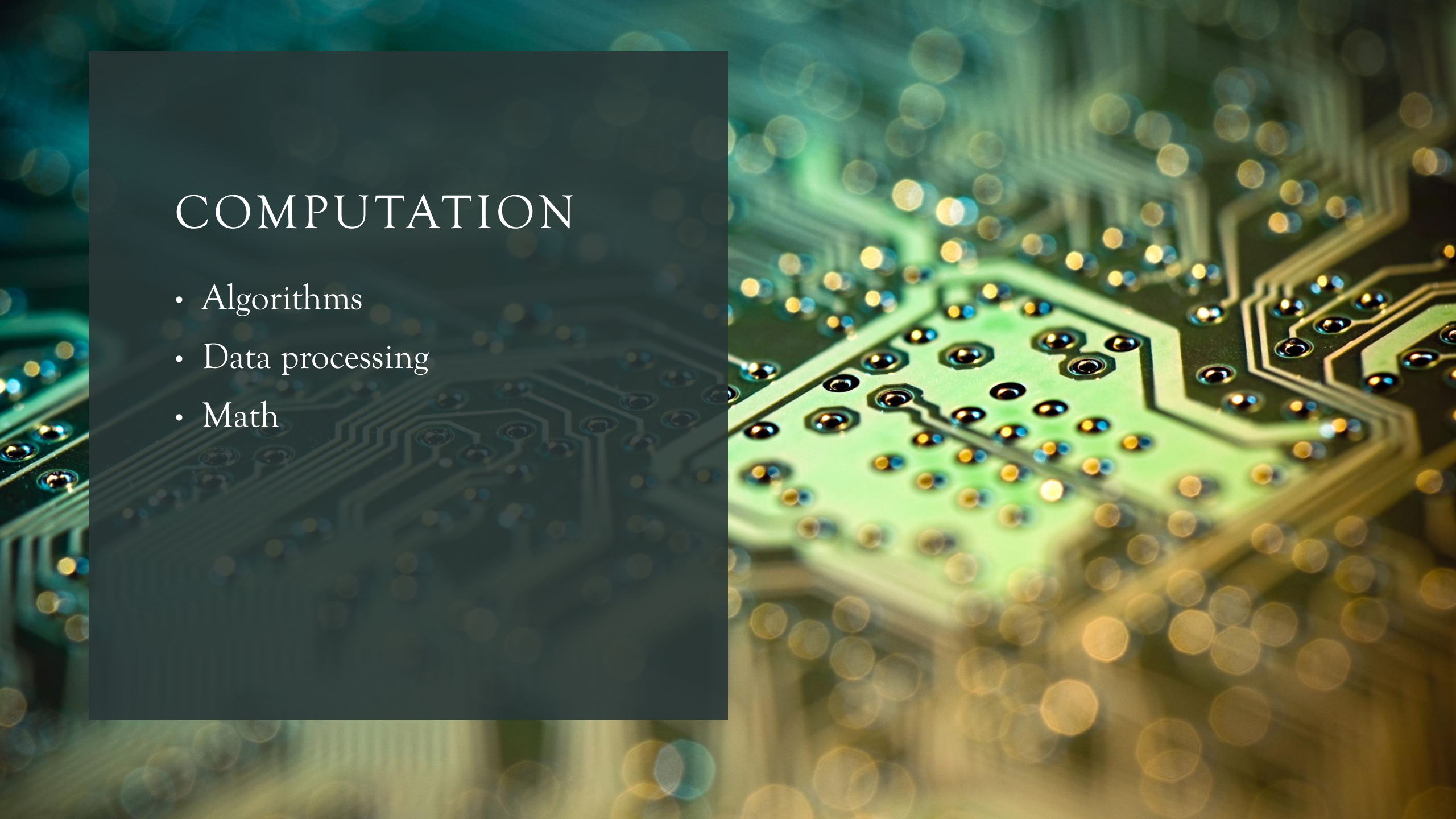
ARTIFICIAL & AUTHENTIC  
INTELLIGENCE

# MODERN A.I.



# COMPUTATION

- Algorithms
- Data processing
- Math



# REDUCTIONISM

Psychology

Biology

Chemistry

Physics

Math



# GÖDEL'S INCOMPLETENESS THEOREM

There are things we know are true but cannot be formally proven.

Consequently:

You cannot formalize the corpus of *understanding* into a scheme which can be put on a computer.

# LIMITS OF MATH

- Is math complete?
  - Is there a way to prove every true statement? No – there will always exist true statements which cannot be proven.
- Is math consistent?
  - Is it free of contradiction? No – there is no way for a formal system to prove itself.
- Is math decidable?
  - Is there an algorithm that can always determine whether a statement follows from the axioms? No – there are always going to be some statements whose truth or falsity cannot be decided just by algorithmic means.

What does it mean to understand something?



Is consciousness or understanding the result of computation?

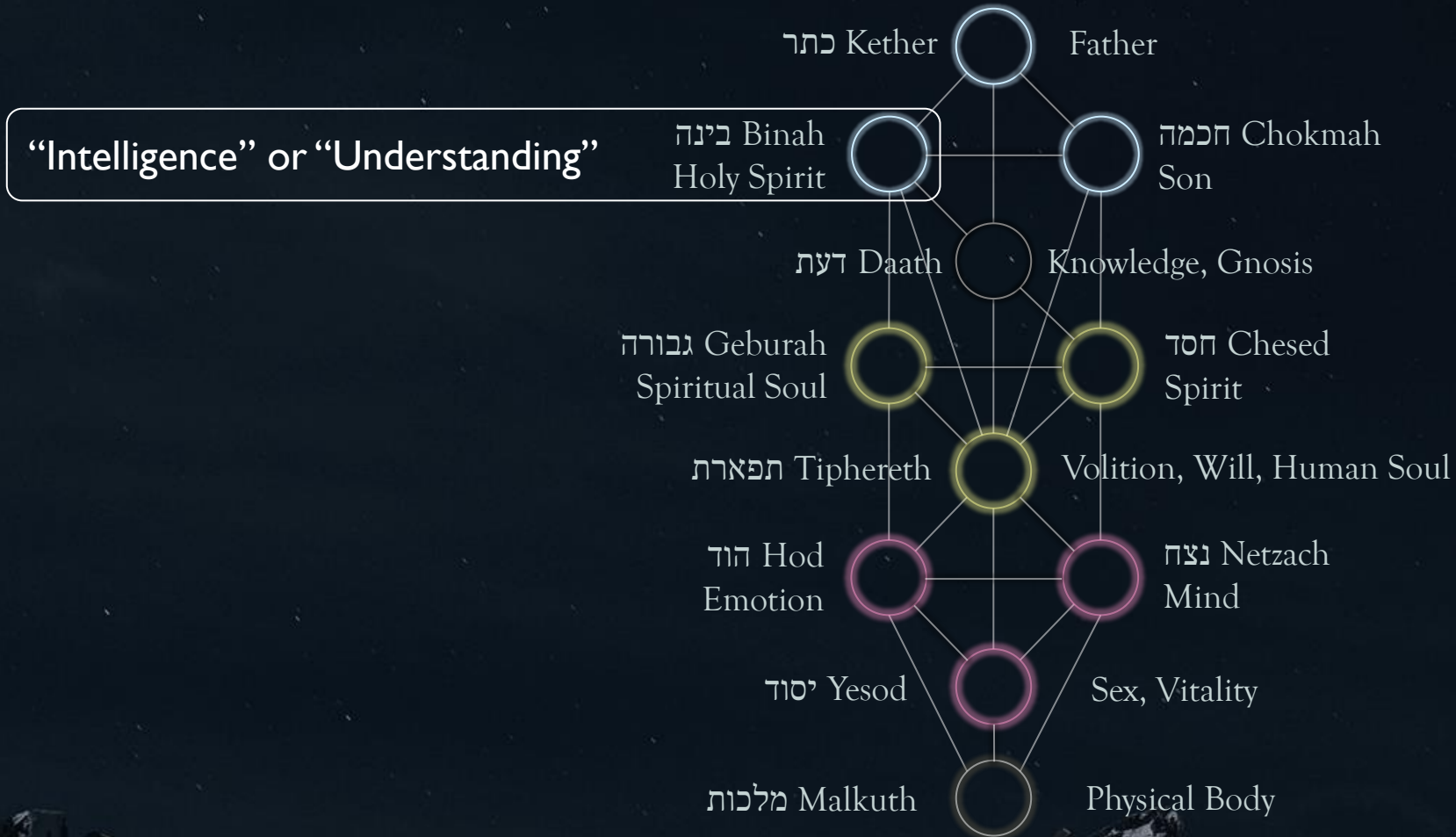
# TREE OF LIFE





# TREE OF LIFE

אין Ain  
אין סוף Ain Soph  
אין סוף אור Ain Soph Aur



# TREE OF LIFE

אין Ain  
אין סוף Ain Soph  
אין סוף אור Ain Soph Aur

“Intelligence” or “Understanding”



# TREE OF LIFE

אין Ain  
אין סוף Ain Soph  
אין סוף אור Ain Soph Aur



“Intelligence” or “Understanding”

The left side represents *That Which Must be Acquired*. It is potential, the Promethean fire that gives creative potential to humanity, and can be transformed into understanding.

The right side represent *That Which Already Is*. Abstract principles, ideals, and forces which remain unfulfilled without the left side.

We can think of universal ideals well before we *realize* them.



What happens when A.I. generated content is increasingly easy to produce and discern from the real thing?

What is the way out of this maze?