# DESIGN VS. CHANCE: ALTERNATIVE FRAMEWORKS FOR SCIENTIFIC DATA

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#### Introduction

#### **Some Definitions**

Chance/Randomness - several levels anything can happen anything w/in certain law-boundaries no mind, but some ordering mechanism

Design - also several levels working w/o limitations various limitations: time, materials

## A Thought Experiment

Monkeys typing "ENCYCLOPAEDIA BRITANNICA" "Give enough monkeys enough time..."

# Purely random case

Imagine electric typewriters: all caps, 33 keys, typing at 3 keys/sec 24 characters, so 33 to 24th power =  $3 \times 10^{36}$  combinations The job will take  $3 \times 10^{28}$  monkey-years

## Dawkin's guided randomness

use computer network instead of typewriters monkeys make variations on chosen "best case" job completed in only a few minutes w/ a few monkeys

(Dawkins uses this for illustration of how natural selection works, but it is really a sample of design w/ limitations)

## **Design Versus Chance**

# The Origin of the Universe

Recent move toward absolute origin at big bang

chance: fluctuation in vacuum produces universe design: God created it design in inanimate universe?

anthropic principle

#### **Ouantum Mechanics**

Copenhagen interpretation dominant, featuring chance as basic various other interpretations

# The Origin of Life

Dawkins: evolution of life from non-life reasonable if 1 chance in 10 to 20th per planet per billion years

Calculation for protein of 100 linked amino acids

Langton's self-reproducing automaton

## The History of Life

Non-theistic evolution: problem of designing a computer simulation of natural selection to show it will work

Various forms of creation (th-evol, old-earth & young-earth creation): minds can produce order, so creation model works in this sense

## **Human History**

Design in history?

Suggest Christian model supported by prophecy, transformed lives, changed societies

## **Bibliography**

Barrow, John D. and Frank J. Tipler. *The Anthropic Cosmological Principle*. New York: Oxford Univ Press, 1986.

Davies, Paul. Accidental Universe. Cambridge: Cambridge Univ Press, 1982.

Davies, Paul and J. Brown, eds. *The Ghost in the Atom: A Discussion of the Mysteries of Quantum Mechanics*. New York: Cambridge Univ Press, 1986.

Dawkins, Richard. The Blind Watchmaker. New York: Norton, 1986.

Denton, Michael. Evolution: A Theory in Crisis. Bethesda, MD: Adler and Adler, 1985.

Kellog, S. H. *The Jews, or Prediction and Fulfilment*. New ed. New York: Anson Randolph, 1887.

Pollard, William. Chance and Providence. New York: Scribners, 1958.

Thaxton, Charles B., Walter L. Bradley and Roger L. Olsen, *The Mystery of Life's Origin*. New York: Philosophical Library, 1984.

Urquhart, John. The Wonders of Prophecy. Harrisburg, PA: Christian Publications, n.d.