

# **Tough Questions – Real Answers!**

Science, Faith, Evolution, Intelligent  
Design and the Big Bang

By Perry Marshall

(Special thanks to Jim Runyon for Big Bang Slides)

## **Part 1: The Big Bang**

# **‘Old’ Scientific View of Universe**

## **Steady State Universe**

The Universe is infinitely OLD and LARGE

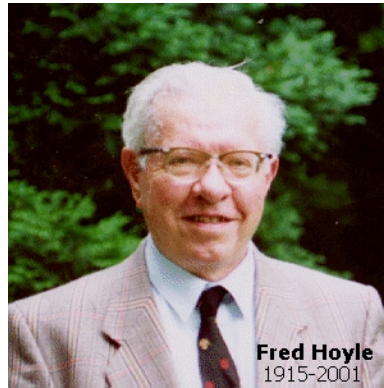
The Universe was a ‘Steady State’

Evolution had enough ‘Time’ to work

# Early Opposition to the 'Big Bang'

Sir Fred Hoyle's coined the term  
"BIG BANG"

in an attempt to ridicule the theory.



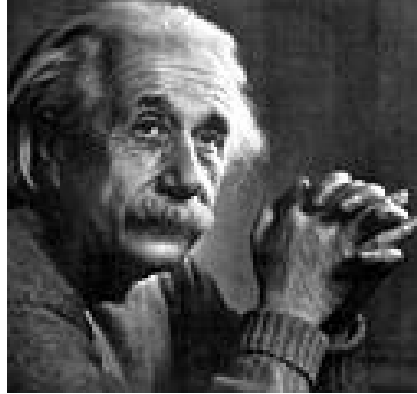
Sir Fred Hoyle  
**'Steady State'**  
**Universe Advocate**

The 'Bang' stuck!

# **The Big Bang was First Described by:**

- 1. Sir Arthur Eddington**
- 2. Albert Einstein**
- 3. Arno Penzias and Robert Wilson**
- 4. Edwin Hubble**
- 5. Other**

# Albert Einstein



- **Relativity Theories (1905, 1917)**
  - Gravity (Theory of the very BIG)
- **Equations showed:**
  - Universe is Expanding
  - Expansion must have started from a 'POINT'
- **Implies that there is a Beginning & a Beginner**

# **Big Bang Essentials**

**The Universe began a finite  
time ago**

**The Universe had a  
transcendent beginning**

**The Universe is undergoing a general,  
continual expansion**

# Singularity Simulation

## The Moment of the Big Bang

*It Began Smaller Than This!*

The size of the  
Universe at the  
beginning was  
Infinitely Small

Time began at  
the Beginning.

The Universe was  
made out of that which  
we cannot measure or detect

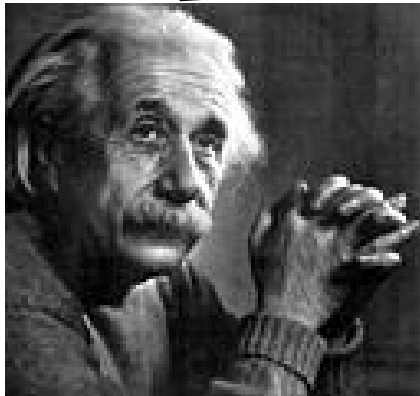
Unification of  
the Four Forces  
Of Physics

‘Cause-Effect’ Exists  
outside of our Time Dimension

# What Scientists Thought

“It (Big Bang) seems to require a sudden and peculiar beginning of things... Philosophically, the notion of a beginning is repugnant to me.”

I don't like the the thought of a beginning or a beginner.



Albert Einstein



Sir Arthur Eddington  
(famous 20<sup>th</sup> Century Cosmologists)

Einstein used a 'fudge factor' in his equations to allow for a 'Steady State' Universe

He later admitted that it was the worst mistake in his career.



# Scientific Evidence for Big Bang

## General Relativity and Space-Time Theorems

- ‘Singular’ beginning of matter, energy, space, time



*The “THEORY” of GENERAL RELATIVITY has been confirmed to a precision of “1 part in hundred trillion”*

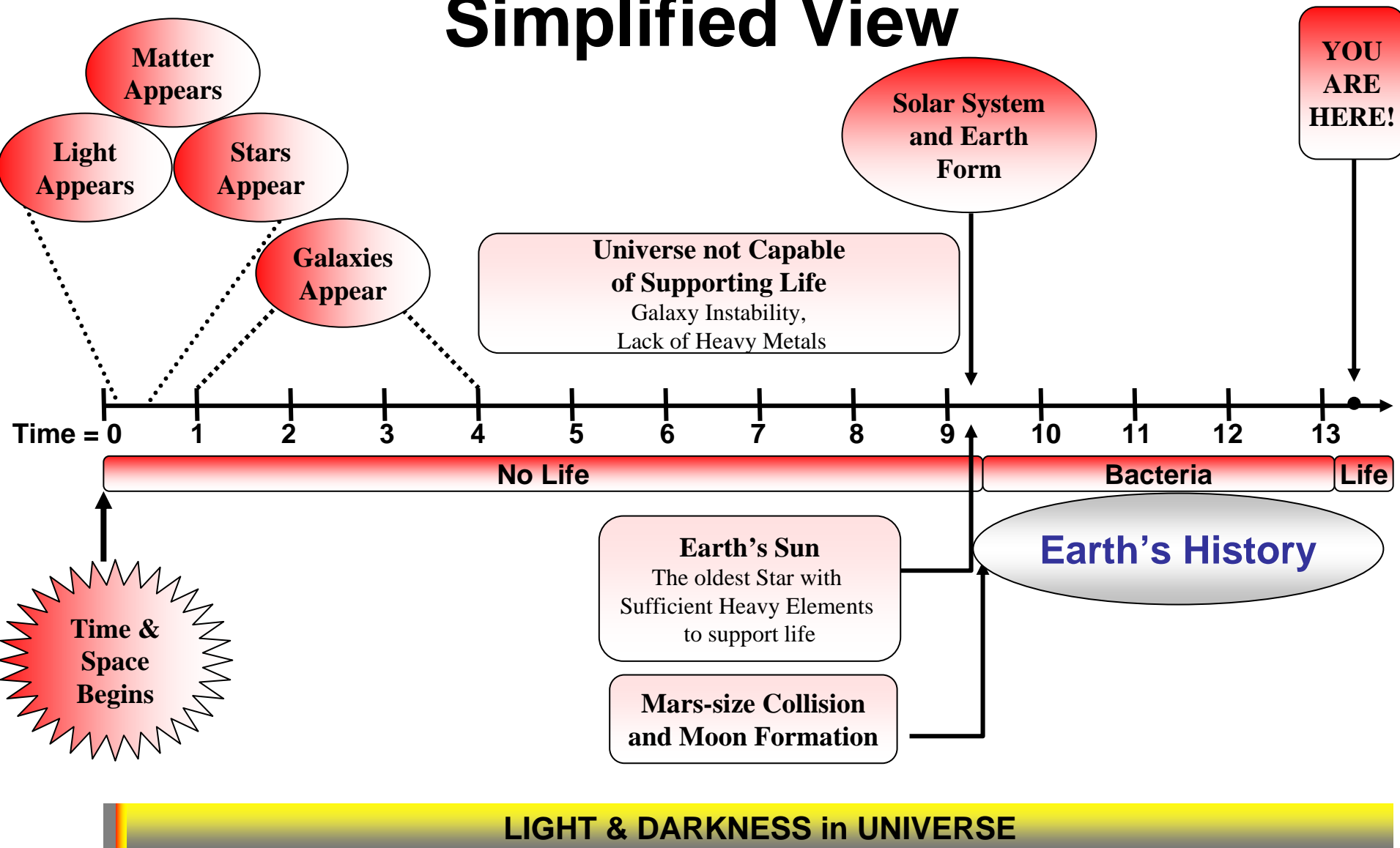
*The best proven theory in history should be a LAW!!*

# Scientific Evidence for Big Bang

**“All roads of evidence lead to the Big Bang” ...  
“no other theory even comes close”  
to the evidential base supporting it.**

Astronomy (December 2002):36

# Universe and Earth Formation: A Simplified View



# Geoffrey Burbidge's Quote:

*(an atheistic astrophysicist)*

... worried that his peers might  
rush off to join  
"the First Church of Christ of the Big Bang."



# Scientific vs. Biblical Summary

## Scientific Simplified View

YOU  
ARE  
HERE!

The Universe comes into existence  
(Galaxies, Stars)

and our Solar System  
(Sun, Earth/Planets)

Time

0

In the beginning, God created the Heavens ...

...and Earth

## Biblical Simplified View

# Big Bang Essentials

The Universe began a finite time ago

The Universe had a transcendent beginning

In the beginning,

God created (*'bara'*)

the heavens and earth  
(*'shamayim erets'*)

Genesis 1:1



The Universe didn't always exist



God existed before the Universe



**'bara'**: To make something brand-new or to make something out of nothing



**'shamayim erets'**: Always refers to the entire physical universe

# Big Bang Essentials and the Bible

**Universe was made Transcendently**

**- Independent of Matter, Energy, Space & Time -**

“By faith we understand that the universe was formed at God’s command, so that what is seen was **not** made out of what was **visible**.”

Hebrews 11:3

# Big Bang Essentials

## Time had a Beginning

The grace was given us in Christ Jesus before  
the beginning of time.

2 Timothy 1:9

The hope of eternal life, which God, who does  
not lie, promised before the beginning of time.

Titus 1:2

**I, Stephen Hawking ...,  
discovered that  
“Time Began” at the Big Bang**





# Genesis Creation

## One Page

## Summary

In the beginning, God created the heavens and earth.

And the earth was formless and void and darkness covered the face of the earth. And the Spirit of God moved upon the surface of the deep (dark vapors).

Heavens (Universe) &  
Earth  
Appear

Darkness  
on Earth

Day 1

Day &  
Night

Land &  
Sea

Day 4

Sun &  
Moon

Day 6

Animals  
& Man

Light  
Appears

Water &  
Sky

Day 2

Plants &  
Trees

Day 3

Sea Life  
& Birds

Day 5

Time = 0 sec

Then God said, "Let there be light" and light appeared. And God was pleased with it and divided the light from darkness. Daytime and Darkness. **Day 1.**

Let the vapors separate to form the sky above and the oceans below. **Day 2.**

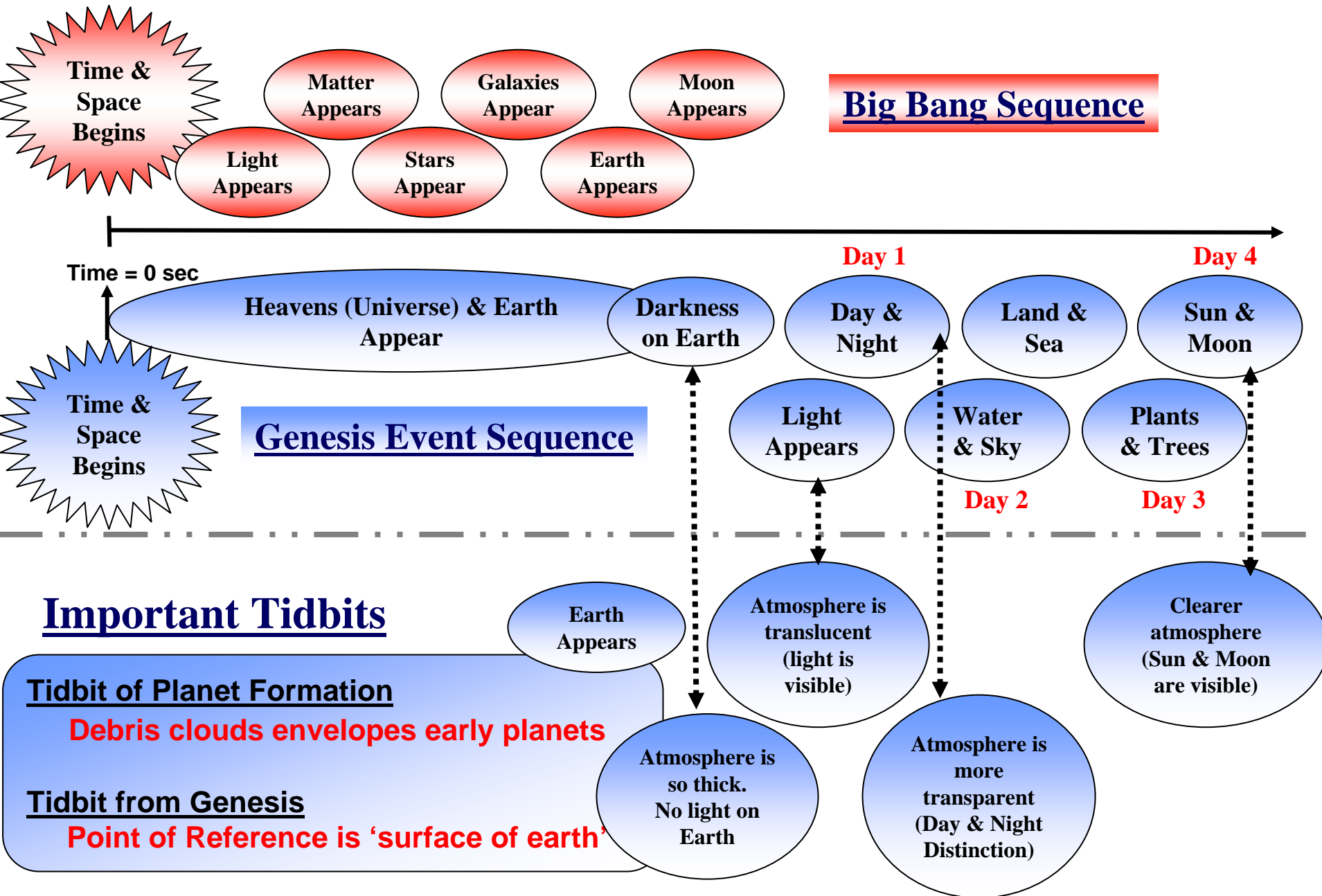
Let the water...be gathered into oceans so that the dry land will emerge. Let there be grass, plants and trees **Day 3.**

God made two lights ... "the sun and moon."  
**Day 4.**

Let the waters teem with fish and other life. Let the sky be filled with birds of every kind.  
**Day 5.**

Let the earth bring forth every kind of animal...wild animals, cattle and reptiles...and man. **Day 6.**

# Big Bang vs Bible Sequence



# Big Bang: Sounds Haphazard

- Nothing could be further from the truth!
- Difference between a “spray of matter” and a black hole collapse:

**+/-**

```
.000000000000000000000000000000000000000000  
000000000000000000000000000000000000000000  
000000000000000000000000000000000000000000  
000000000000000000000000000000000000000000
```

- The most precise event in all of history!

# ***Does 21st Century Cosmology Tell Us About God?***

- Exists **God**
- Transcends our Universe (Space & Time)
- Is Vastly Wise and Intelligent
- Is Action Oriented
- Is Very Creative
- Created our Universe (Space & Time)
- Is a Careful, Loving Creator
- Functions in our Universe (Space & Time)

**Part 2:**  
**Randomness**  
**vs.**  
**Design**

**What Language and DNA Tell  
Us About Life's Origin**

# What We're Going to Explore

- Is Life Random?
- Is Evolution Random?
- New directions for the origins debate.

# **Patterns vs. Designs**

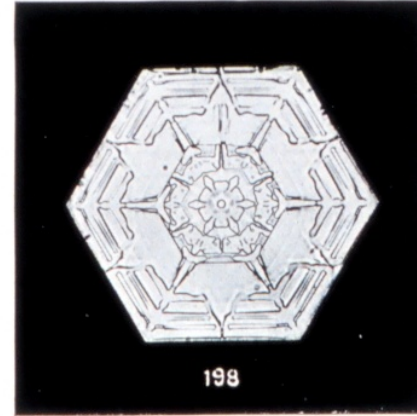
# Naturally Occurring Patterns

**Hot Air + Cold Air +  
Moisture + Time =  
Tornados & Hurricanes**





# Naturally Occurring Patterns



**Water + Cold Air + Gravity + Wind +  
Time = Snowflakes**

# Designs: Music

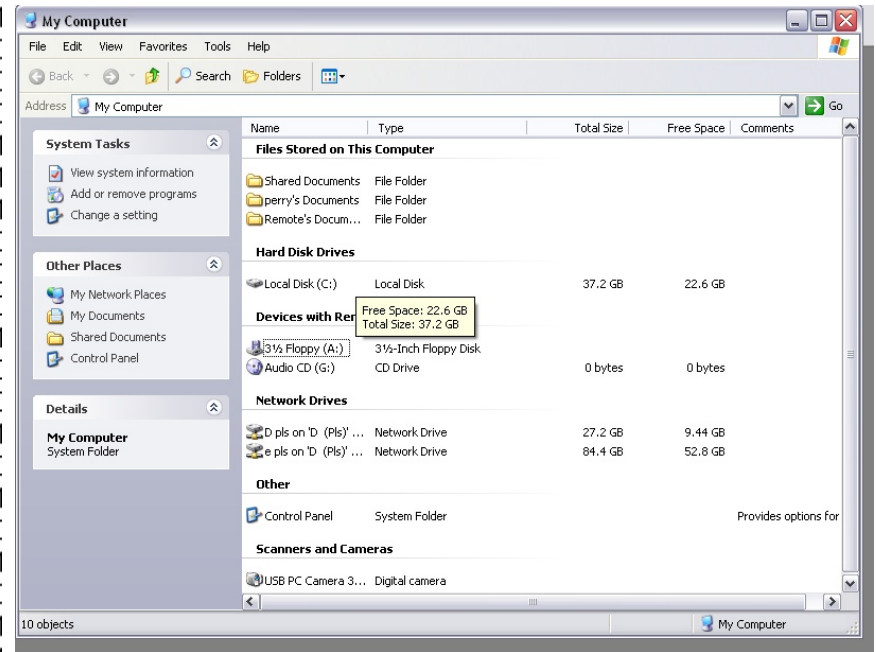


**Symbolic  
Representation**

**Implementation**

# Designs: Microsoft Windows

101011001100000011101110010110110010000001001101001000101011  
00000110010011010010001010110011000000111011100101101100100  
0001001101001000101011001100000011101110010110110010000010C  
10000001110111001011011001000101110010110110010000001001101C  
101011001100000011101110010110110010000001001101001000101011  
000001110111001011011001000000100110100100010101100110000001  
110111001011011001000000100110100100010101100110000001110111  
0011010010001010110110010000001001101001000101011001100000C  
10000001001101001000101011001100000011101110010110110010000C  
10011000000111011100101101100110010110110010000001001101001C  
100000011101110010110110010000010110011000000111011100101101  
10001010110011000000111011100101101100100000010011010010001C  
11001011011001000000100110100100010101100110000001110111001C  
010010001010110011000000111011100000010011010010001010110011  
10000001001101001000101011001100000011101110010110110010000C  
101011001100000011101110010110110010000001001101001000101011  
10110110010000001001101001000101100000011101110010110110010C  
000111011100101101100100000010011010010001010110011000000111  
00010011010010001010110011000101101100100000010011010010001C  
110111001011011001000000100110100100010101100110000001110111  
001101001000101011001100000011101110010110110010000001001101



**Symbolic  
Representation**

**Implementation**

# Patterns vs. Information

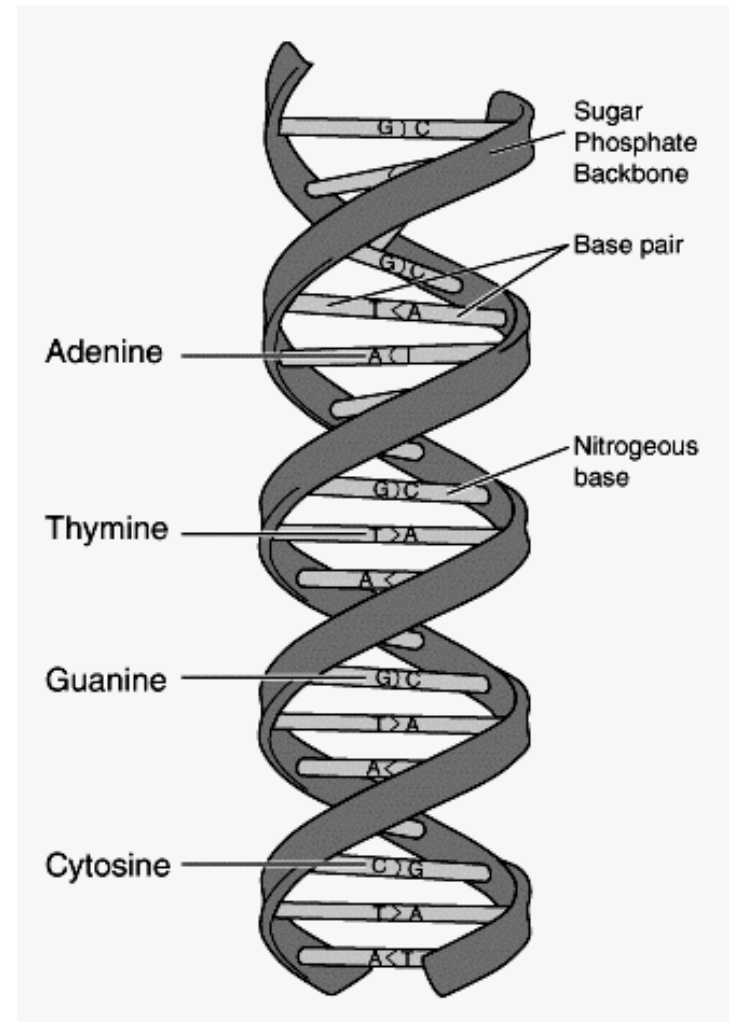


- Come from chaos
- Simply matter & energy
- Require no thought

- Based on CODE
- Matter + Energy + Information
- Requires thought

# How Does DNA Work?

- Double Helix – Divides and bases attach
- Adenine, Thymine, Cytosine, Guanine
- Encodes all information necessary for life
- 500,000 to 3 Billion Letters



# DNA: Pattern or a Language?

- DNA is a code (“The Genetic Code”)
- A DNA molecule symbolically represents something other than itself
- So which is it more like?
  - *Stalactites, Tornados, Snowflakes and Fractals*
  - *Music, Maps, Computer Programs and Chinese*



# Where Do Codes Come From?

Patterns like snowflakes and hurricanes  
occur naturally

Random processes don't create codes

No one has ever discovered a code that was  
not ultimately designed by someone!

# Undeniable Proof of Intelligent Design!

1. DNA is a code.
2. All codes that we know the origin of are designed by a mind.
3. Therefore DNA was designed by a mind.



# **The Atheist's Riddle**

*“Show me a language that does  
not come from a mind.”*

**So simple, any child can understand  
So complex, no atheist can solve**

# Part 3:

## A Christian and an Atheist Go to the Zoo

- Did the Antelope evolve into the Giraffe?
- Anecdotal Evidence
- Must reduce the question to first principles



# The Ultimate Darwinian machine: Google Advertising

 [Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [Local](#) <sup>New!</sup> [more »](#)

[Advanced Search](#)  
[Preferences](#)

**Web**

Results **1 - 10** of about **2,820,000** for [red wagon](#). (0.15 seconds)

## Product search results for **red wagon**

-  [Radio Flyer Little \*\*Red Wagon\*\* - 5](#) - \$14.99 - [Target](#)  
[Classic \*\*Red Wagon\*\*](#) - \$54.99 - [Buy.com](#)  
[Radio Flyer 18 Classic \*\*Red Wagon\*\* - By The Makers Of The \*\*Red Wagon\*\*](#) - \$59.95 - [SHOP.COM](#)

## [Red Wagons \(TM\): Official Site - Radio Flyer \*\*Wagons\*\*, Children's ...](#)

**Red Wagons** (TM): Official Site sells Radio Flyer **red wagons** educational children's products, and classic children's toys.

[www.redwagons.com/](#) - 19k - [Cached](#) - [Similar pages](#)

## [The \*\*Red Wagon\*\* Toy Company](#)

Build a legacy with your child. Make a lasting memory with a toy that is special for your child. The **Red Wagon** Toy Company LLC has been on the Internet ...

[www.redwagon.com/](#) - 33k - Apr 2, 2005 - [Cached](#) - [Similar pages](#)

## Sponsored Links

### [Red Wagon](#)

Browse a huge selection now  
Find exactly what you want today  
[www.eBay.com](#)

### [Red Wagon](#)

Search major toy stores with this  
useful site. Hot Toys for 2003.  
[www.toyavenue.com](#)

### [Red Wagons Coupons](#)

Get Free Coupons for **Red Wagons**  
.com at CouponCabin.com  
[www.couponcabin.com](#)

# Google Survival of the Fittest

Simple Self Defense  
For Ordinary People  
Easy Personal Protection Training  
[www.tftgroup.com](http://www.tftgroup.com)

Simple Self Defense  
For Ordinary People  
Fast Personal Protection Training  
[www.tftgroup.com](http://www.tftgroup.com)

<b>Response: 0.8%</b>	<b>Response: 1.3%</b>
-----------------------	-----------------------

# Random Mutation Program

## [www.RandomMutation.com](http://www.RandomMutation.com)

### Random Mutation Generator

Automatically adds random mutations to any text you paste into the box below!

Enter text in the box below, up to a maximum of 500 words:

The quick brown fox jumped over the lazy dog

*Number of mutations:*

☒ 1 ☐ 2 ☐ 5 ☐ 10

*Type of mutation:*

☒ Text ☐ Binary

Mutate!

Reset

# Can Random Mutation Write a Better Ad?

Simple Self Defense

For Ordinary People

Easy Personal Protection Training

[www.tftgroup.com](http://www.tftgroup.com)

# Can Random Mutation Write a Better Ad?

After 1 mutation:

Simple Self Defense

For Ordinary People

Easy Personal Protection Training

[www.tftgroup.com](http://www.tftgroup.com)

# Can Random Mutation Write a Better Ad?

After 5 mutations:

Simple Self Def4nse

For Ordinary Peopla

Easy Personal Protect0ov Traininf

[www.tftgroup.com](http://www.tftgroup.com)



# Can Random Mutation Write a Better Ad?

After 10 mutations:

Simple SPIf Def4nse

For Ordinary Geopla

Emsy Personal Protect0ov Traininf

[ww8.tftgroup.com](http://ww8.tftgroup.com)

# Can Random Mutation Write a Better Ad?

After 50 mutations:

3iCpBxgfelf dezensqo

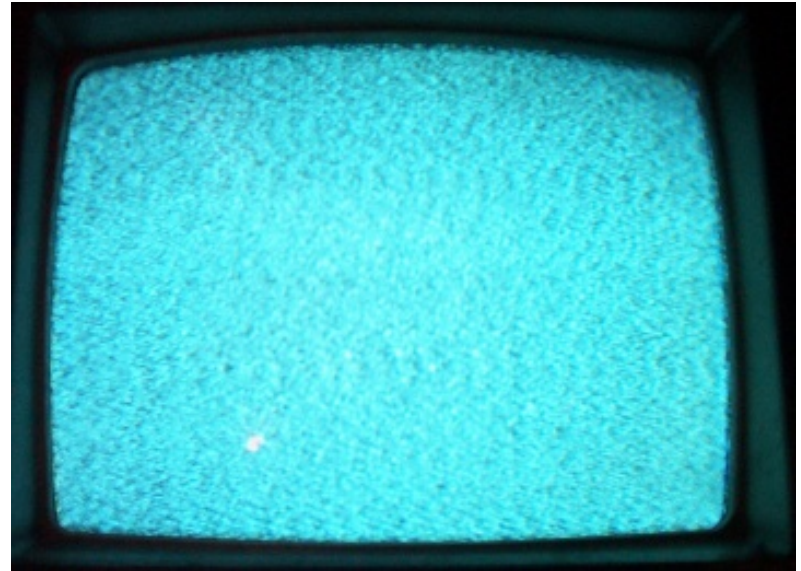
a3r OrdinausRmeopRe

BbsyM7ersonel NjiLeStBon0Tnaaning

wwwJEdtgroup63Om 5

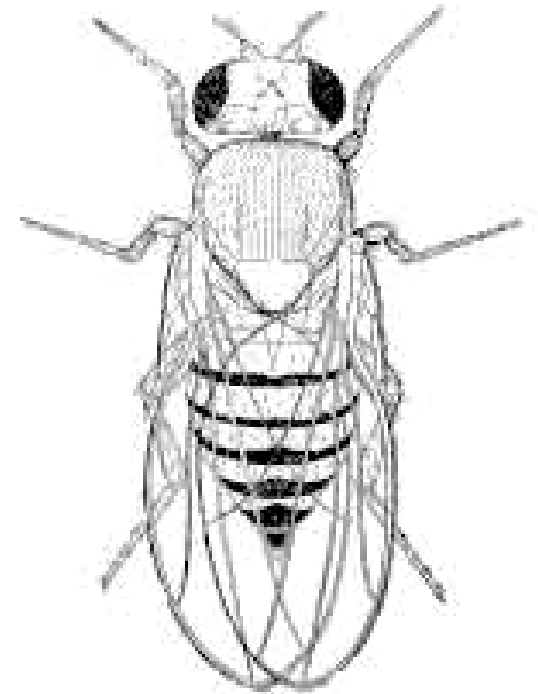
# Noise

- What noise looks like
- Noise creates uncertainty
- Impossible to get information from noise



# Fruit Fly Radiation Experiments

- Decades of experimentation starting in 1906
- No new species
- Missing organs, deterioration, sterility, reduced wings & legs; feet growing out of mouth
- Not a single improved fruit fly



# New Insight!

Random Mutation

+

Natural Selection

+

Time

= **Extinction**

# How We Use The Word “Evolution”

- When we use the word evolution in reference to technology, knowledge, social progress, we are always referring to intelligent activity
- Naturalistic Evolution is the *only* instance where the word “Evolution” refers to a truly random, blind process
- Evolution = Chaos Resolved by Intent (Requires a mind)
- If Evolution happened, it was *Designed* to happen

# ***Prescient Revelation***

- 1500 BC: “And God said”
- 90 AD: “In the beginning was the WORD”

# For More Information

Numerous articles, lectures and downloads  
about DNA, information, the origin of life  
and the universe:

Visit [www.CosmicFingerprints.org](http://www.CosmicFingerprints.org)