

Lecture 2: When faith and science collide

Our approach to this difficult area.

¹³ Now who is there to harm you if you are zealous for what is good? ¹⁴ But even if you should suffer for righteousness' sake, you will be blessed. Have no fear of them, nor be troubled, ¹⁵ ***but in your hearts honor Christ the Lord as holy, always being prepared to make a defense to anyone who asks you for a reason for the hope that is in you; yet do it with gentleness and respect,*** ¹⁶ having a good conscience, so that, when you are slandered, those who revile your good behavior in Christ may be put to shame.

1 Peter 3: 13 – 16

Evolution collides with intelligent design

Human Evolution

From Protocells to People

Discover the major milestones and key adaptations that have shaped the course of human evolution. The following graphic illustrates how humans have emerged from 4 billion years of change.

KEY
 Ga - Giga annum Billion years ago
 Ma - Mega annum Million years ago
 + Gain of function/body part
 - Loss of function/body part



Evolving into the Future

Humans are still evolving. Thousands of years from now, we may experience a "Great Averaging" where continuous, international mixing will create an average of all current physical differences. Other hypotheses suggest humans may become taller, more lightly built, and less aggressive with smaller brains.

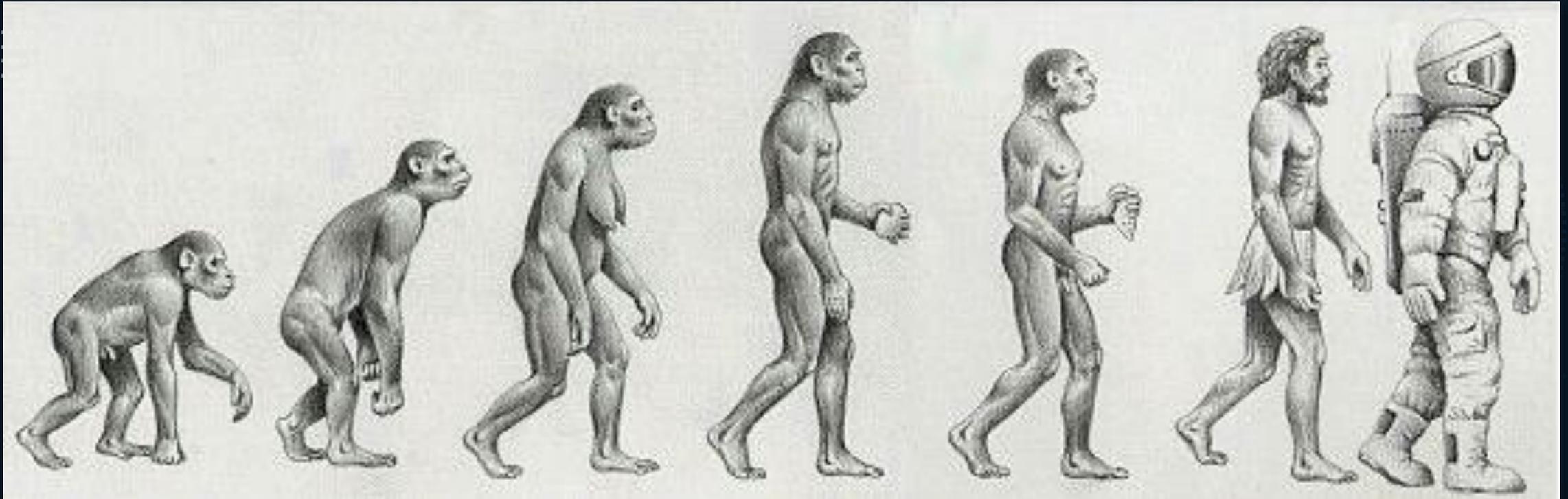


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SOURCES: "InsiderTech: Incredible Animation Shows How Humans Evolved from Early Life." YouTube, 25 Mar. 2018. www.youtube.com/watch?v=2W5hOlaFjU&ab_channel=InsiderTech. "Smithsonian's National Museum of Natural History. "Introduction to Human Evolution." The Smithsonian Institution's Human Origins Program, Mar. 2010. humanorigins.si.edu/education/introduction-human-evolution. "Wikipedia Contributors. "Timeline of Human Evolution." Wikipedia. Wikimedia Foundation, 29 Nov. 2018. en.wikipedia.org/wiki/Timeline_of_human_evolution.

A common picture from school text books: the problem is on the far left...



University of Minnesota, Evolution of Primates

Evolution of Primates

The first primate-like mammals are referred to as proto-primates. They were roughly similar to squirrels and tree shrews in size and appearance. The existing fossil evidence (mostly from North Africa) is very fragmented. These proto-primates remain largely mysterious creatures until more fossil evidence becomes available. The oldest known primate-like mammals with a relatively robust fossil record is *Plesiadapis* (although some researchers do not agree that *Plesiadapis* was a proto-primate). Fossils of this primate have been dated to approximately 55 million years ago. Plesiadapiforms were proto-primates that had some features of the teeth and skeleton in common with true primates. They were found in North America and Europe in the Cenozoic and went extinct by the end of the Eocene.



Are these our relatives?

Many arguments against evolution

- DNA, DNA and DNA
- Sexual reproduction (more on this in a minute)
- Species diversity: estimates range from millions to trillions...
 - Common number is around 9 million different species
 - 11,000 species of birds
 - 6,500 species of mammals

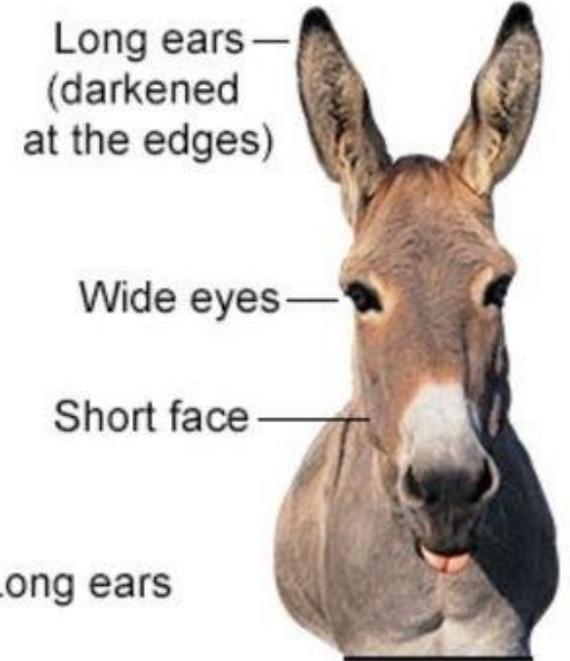
The problem of reproduction as a means of combining DNA

- Natural selection through random mutations still has the issue of what to start with
- Random mutations may gradually impact a population to eliminate certain weaknesses (e.g. shorter height) but it is extremely difficult for this to generate a brand new sexually viable distinct species
- For mammals to combine their genetic material, to generate a potentially new species they have to produce viable off-spring
 - This is off-spring that is able to reproduce again

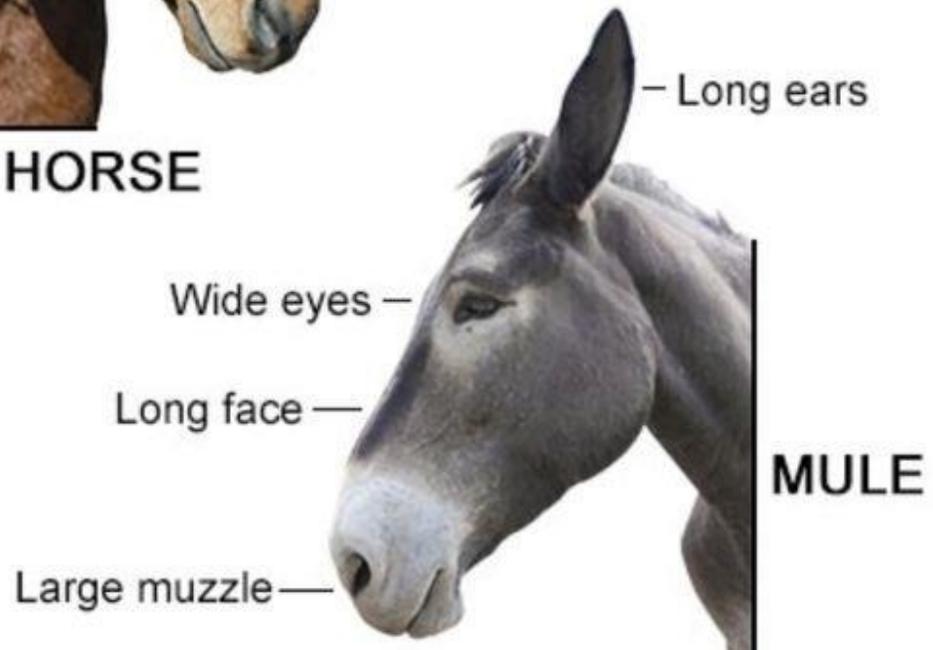
Mules,
99.99%
infertile



HORSE



DONKEY



MULE

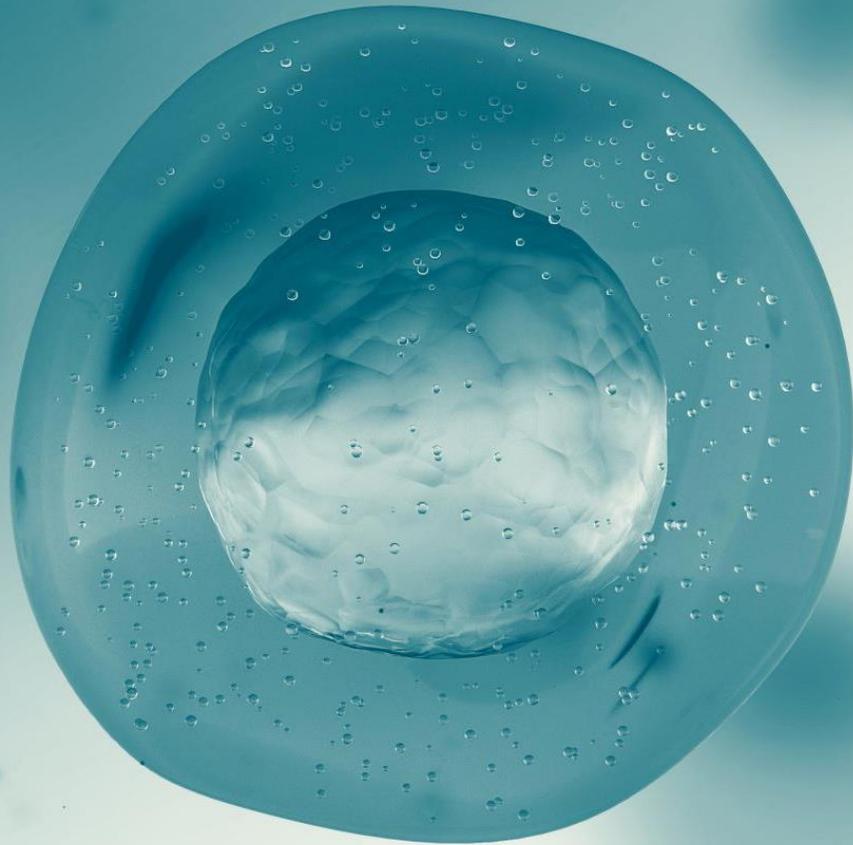


The main two problem's of evolution: where it all started, and species leap's

- **The main problem is still the beginning**
 - **Major species classes from nothing??**
- **Artificial selection such as dogs, cats, livestock shows change WITHIN a viable species**
 - **Have you ever seen a Cat-Dog?**
- **This is still within 1 species class (or one kind, using Biblical language)**

Origin of life – from a random soup – we don't think so! The science says so !!

- The smallest free-living bacterium known is *Candidatus Actinomarina minuta*, with a genome of 0.7 Mbp (700,000 base pairs).
- Yes, you read that correctly, even a very tiny, and small prokaryotic bacteria consists of SEVEN HUNDRED THOUSAND BASE PAIRS
- Cells have both FORM AND FUNCTION – HOW DO YOU CREATE BOTH AT THE SAME TIME!!!!!!
- **A human sperm cell contains 3 BILLION BASE PAIRS**
- **A human oocyte contains 3 BILLION BASE PAIRS**
 - **Each one of us is the result of the combining of 6 BILLION BASE PAIRS!**



Human Evolution

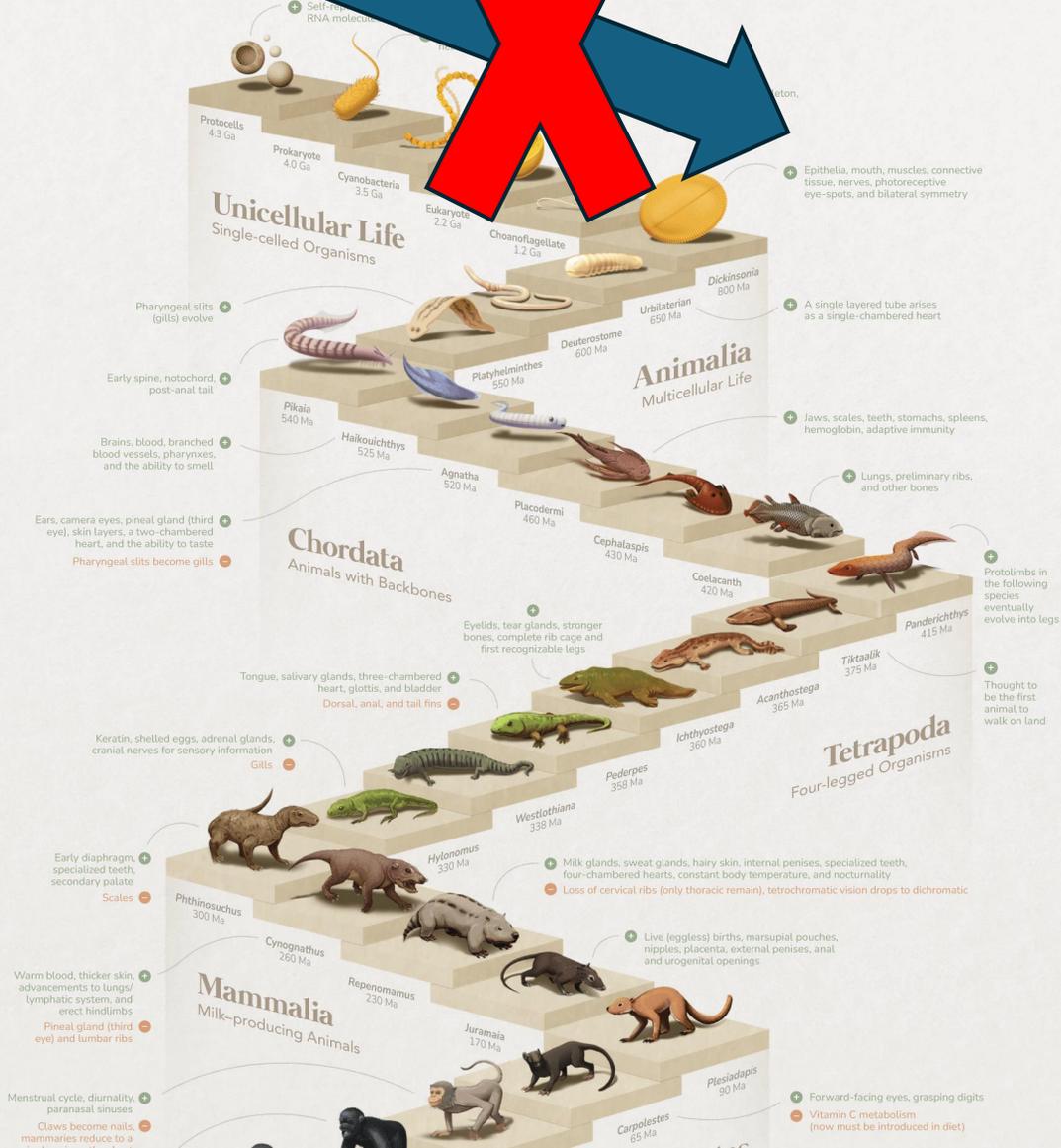
From Protocells to People

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Still a problem of probability that time (even billions of years) does not solve.

- If evolution was real, why don't we have a massively INCREASING numbers of species?
- Because it is extremely difficult (personally, impossible) to even see complex unicellular cells to develop from nothing
- But the **GIANT** leap from unicellular life to smaller fish species etc.....is that **GIANT** and extremely unlikely, impossible

The final problem of 'step-wise evolution': the need for instantaneous creation of viable connected ecosystem

- We know (unfortunately) that ecosystems are intricately connected and removing one species can significantly impact the entire ecosystem
- In addition, every species requires the specific nutrients, food, water required for survival
- Without plants first being created (as the Biblical pattern) herbivore animals would not have food to survive
 - If carnivores were created first, they would eat themselves and nothing would be left within viable times of reproduction
- Reproduction takes time
- Do you remember the size of DNA of flowering plants?
 - 10^{11} base pairs, that's a billion + two zeros.....





EVOLUTION NEWS AND SCIENCE TODAY

Problem 5: No Workable Model for the Origin of Life

Despite decades of work, origin-of-life theorists are at a loss to explain how this system arose. In 2007, Harvard chemist George Whitesides was given the Priestley Medal, the highest award of the American Chemical Society. During his acceptance speech, he offered this stark analysis, reprinted in the respected journal *Chemical and Engineering News*:

“

The Origin of Life. This problem is one of the big ones in science. It begins to place life, and us, in the universe. Most chemists believe, as do I, that life emerged spontaneously from mixtures of molecules in the prebiotic Earth. How? I have no idea.²¹

NEVER ALLOW SOMEONE TO MAKE YOU, OR YOUR CHILDREN FEEL ‘UN-EDUCATED’ OR ‘IGNORANT OF SCIENCE’ OR ‘BLINDED BY THE BIBLE’ WHEN STANDING FOR CREATION BY INTELLIGENT DESIGN!

**God's definition of life
collides with man's
desire to control life**

Growing a Baby

First Trimester weeks 1-13

← date of last menstrual period (LMP)

← ovulation and conception

← implantation

← missed period

← heart, lungs, brain, and spinal cord have begun to develop

← eyes and ears begin to form; arm and leg buds are visible

← all essential organs have begun to form

← head is about 1/3 of total body length

← fingers and toes have separated

← facial features are clear

Eat lots of protein-rich foods to help your baby grow.

Second Trimester weeks 14-27

← external genitalia are male or female

← fetus may suck his or her thumb

← baby's movements may be felt

← body fat begins to form

← rate of growth begins to slow

← vernix, a protective coating, is appearing on the skin

← baby sleeps and wakes regularly

← baby is learning to swallow

← fingernails and toenails are visible; eyelids and eyelashes are more developed

(continued on back)

Put a check mark beside the heart for each week of your pregnancy. Write the date of each visit of pregnancy, the date of your prenatal visits, and any diagnostic tests in the empty box.

• See your healthcare professional for prenatal care as soon as possible.
 • If you smoke, your baby may be born too soon and may be sick.
 • If you drink alcohol or do drugs, your baby's brain may not develop normally.

Definition of life

- **Scientific description:** a fertilized egg that is implanted in a mother's womb is the beginning of life.
- **Biblical description:** the combining of physical and spiritual from conception



'For you created my inmost being; you knit me together in my mother's womb. I praise you because I am fearfully and wonderfully made; your works are wonderful, I know that full well.'

Psalm 139:13-14

Considerations

Contraception that prevents sperm or egg before they are combined

- Prevent ovulation
- Barriers

Contraception that interferes with implantation is stopping life

- Intrauterine devices (IUDs) that inserted into the uterus may interfere with either fertilization, or implantation
- Something that interferes with implantation should be reconsidered

In vitro fertilization (IVF)

- Fertilization of egg outside the body

**How God intended
food collides with an
addictive food industry**

A little different topic... I know

²³ “All things are lawful,” but not all things are helpful. “All things are lawful,” but not all things build up. ²⁴ Let no one seek his own good, but the good of his neighbor. ²⁵ Eat whatever is sold in the meat market without raising any question on the ground of conscience. ²⁶ For “the earth is the Lord's, and the fullness thereof.” ²⁷ If one of the unbelievers invites you to dinner and you are disposed to go, eat whatever is set before you without raising any question on the ground of conscience.

1 Corinthians 10: 23-27

Has food science destroyed food?

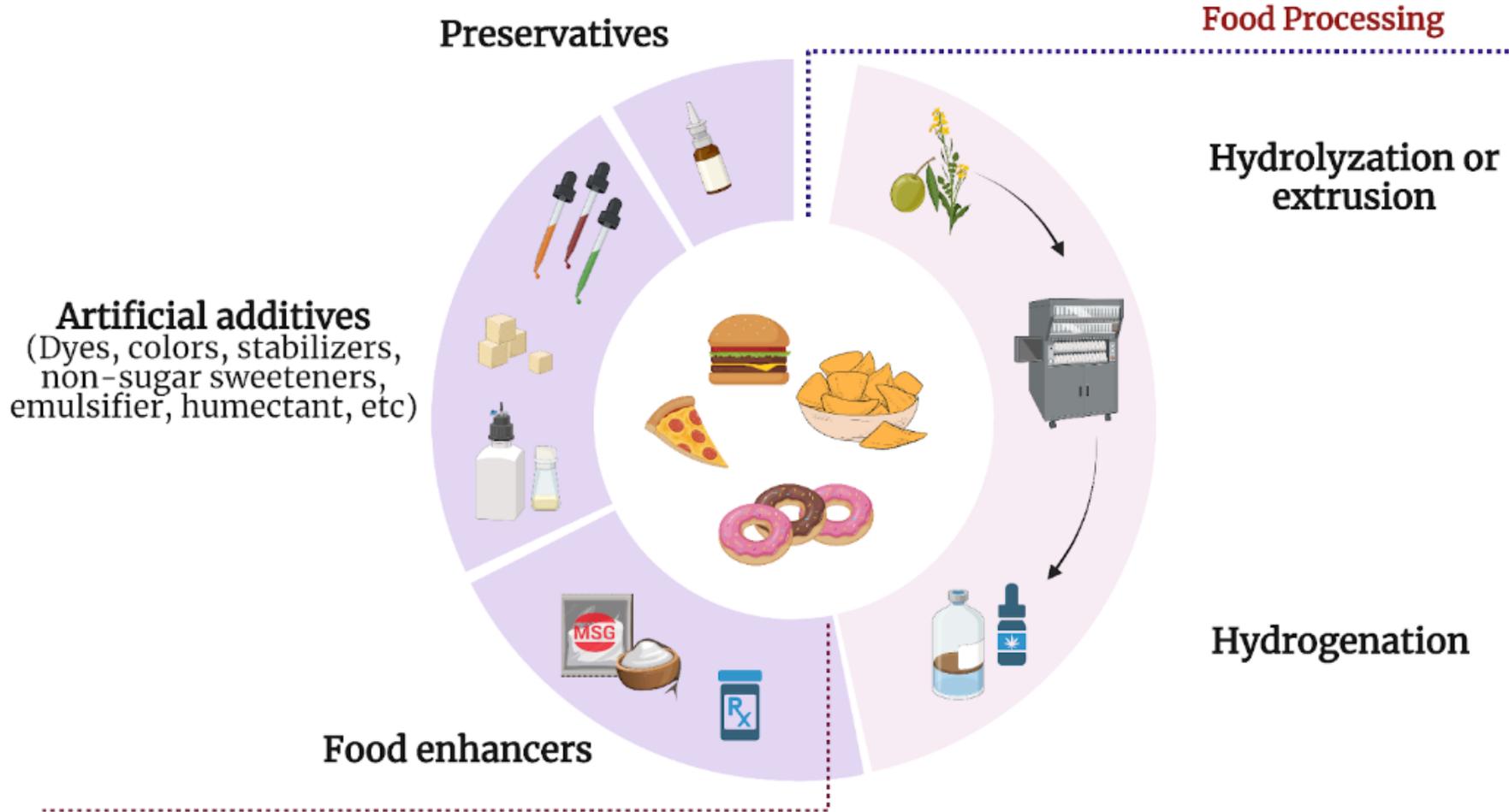


Sugar 1500-2000 BC, and been proven to be more addictive than cocaine



Fake 'meat'

Elements in Ultra-Processed Foods



Food Processing



Water, soy protein concentrate, coconut oil, sunflower oil, natural flavors,

2% or less of: potato protein, methylcellulose, yeast extract, cultured dextrose, food starch modified, soy leghemoglobin, salt, soy protein isolate, mixed tocopherols (vitamin E), zinc gluconate, thiamine hydrochloride (vitamin B1), sodium ascorbate (vitamin C), niacin, pyridoxine hydrochloride (vitamin B6), riboflavin (vitamin B2), vitamin B12



Eating food as God intended it



²³ “All things are lawful,” but not all things are helpful. “All things are lawful,” but not all things build up. **1 Corinthians 10: 23**



Not making others go against their conscience



Eat whole foods



Recognize that many foods are DESIGNED to be addictive

Types of Addictions



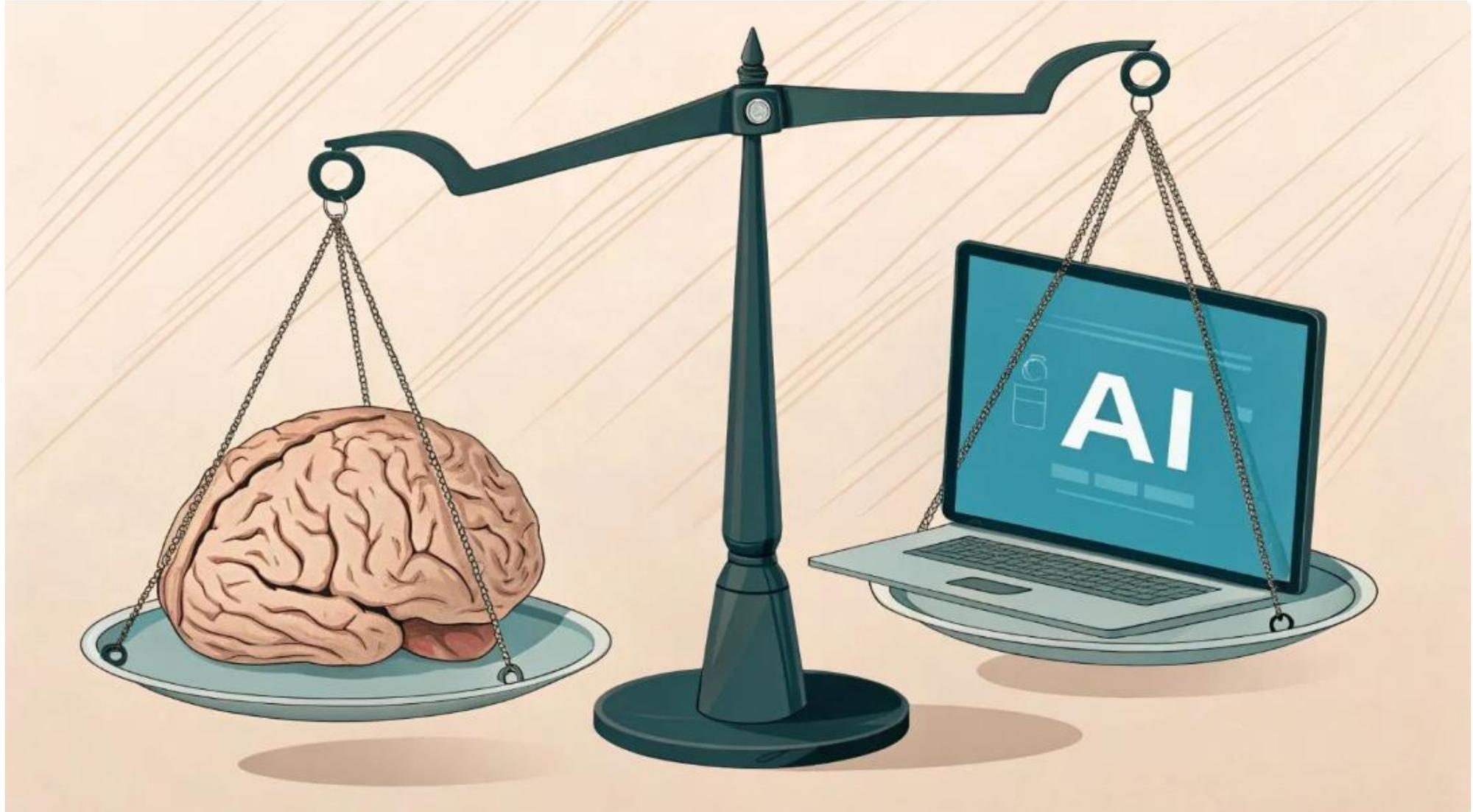
**How God intended a
conscious life collides
with the internet and
artificial intelligence**

Let's begin by asking AI to define science and faith:

- **Science is a systematic enterprise** that builds and organizes **knowledge** in the form of testable explanations and predictions about the universe. It relies on **observation, experimentation,** and evidence to develop and refine its understanding of the natural world. **Scientific conclusions are tentative and open to scrutiny and revision as new evidence emerges.**
- **Faith, particularly in a religious context,** involves **belief and trust in divine or supernatural explanations** that **may not be empirically verifiable.** Religious beliefs are often rooted in ancient texts, traditions, or spiritual experiences **and can be resistant to change in the face of conflicting evidence.**

Simple Dictionary Definition

- **Science:** the systematic study of the structure and behavior of the physical and natural world through observation, [experimentation](#), and the testing of theories against the evidence obtained.
- **Faith:** complete trust or confidence in someone or something.



TYPES OF BIAS IN AI

**SAMPLING
BIAS**



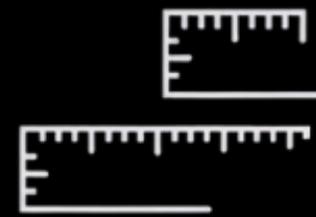
**ALGORITHMIC
BIAS**



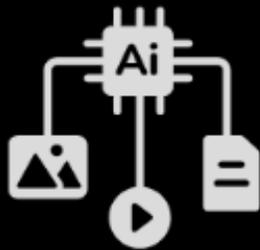
**CONFIRMATION
BIAS**



**MEASUREMENT
BIAS**



**GENERATIVE
BIAS**



**REPORTING
BIAS**



**AUTOMATION
BIAS**

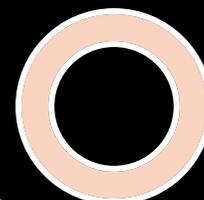
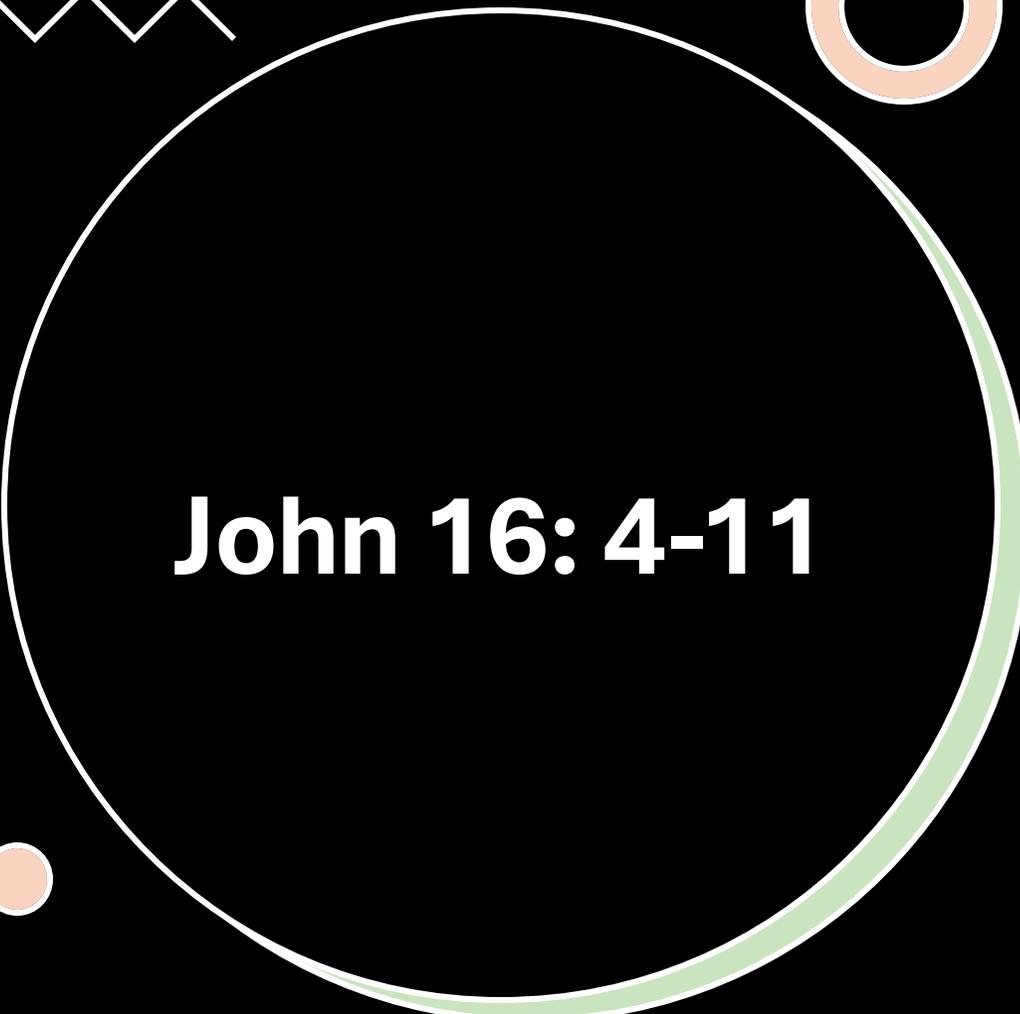


**GROUP
BIAS**



27 My sheep hear my voice, and I know them, and they follow me. **28** I give them eternal life, and they will never perish, and no one will snatch them out of my hand.

John 10: 27-28



John 16: 4-11

“I did not say these things to you from the beginning, because I was with you. ⁵ But now I am going to him who sent me, and none of you asks me, ‘Where are you going?’ ⁶ But because I have said these things to you, sorrow has filled your heart. ⁷ Nevertheless, I tell you the truth: it is to your advantage that I go away, for if I do not go away, the Helper will not come to you. But if I go, I will send him to you. ⁸ And when he comes, he will convict the world concerning sin and righteousness and judgment: ⁹ concerning sin, because they do not believe in me; ¹⁰ concerning righteousness, because I go to the Father, and you will see me no longer; ¹¹ concerning judgment, because the ruler of this world is judged.

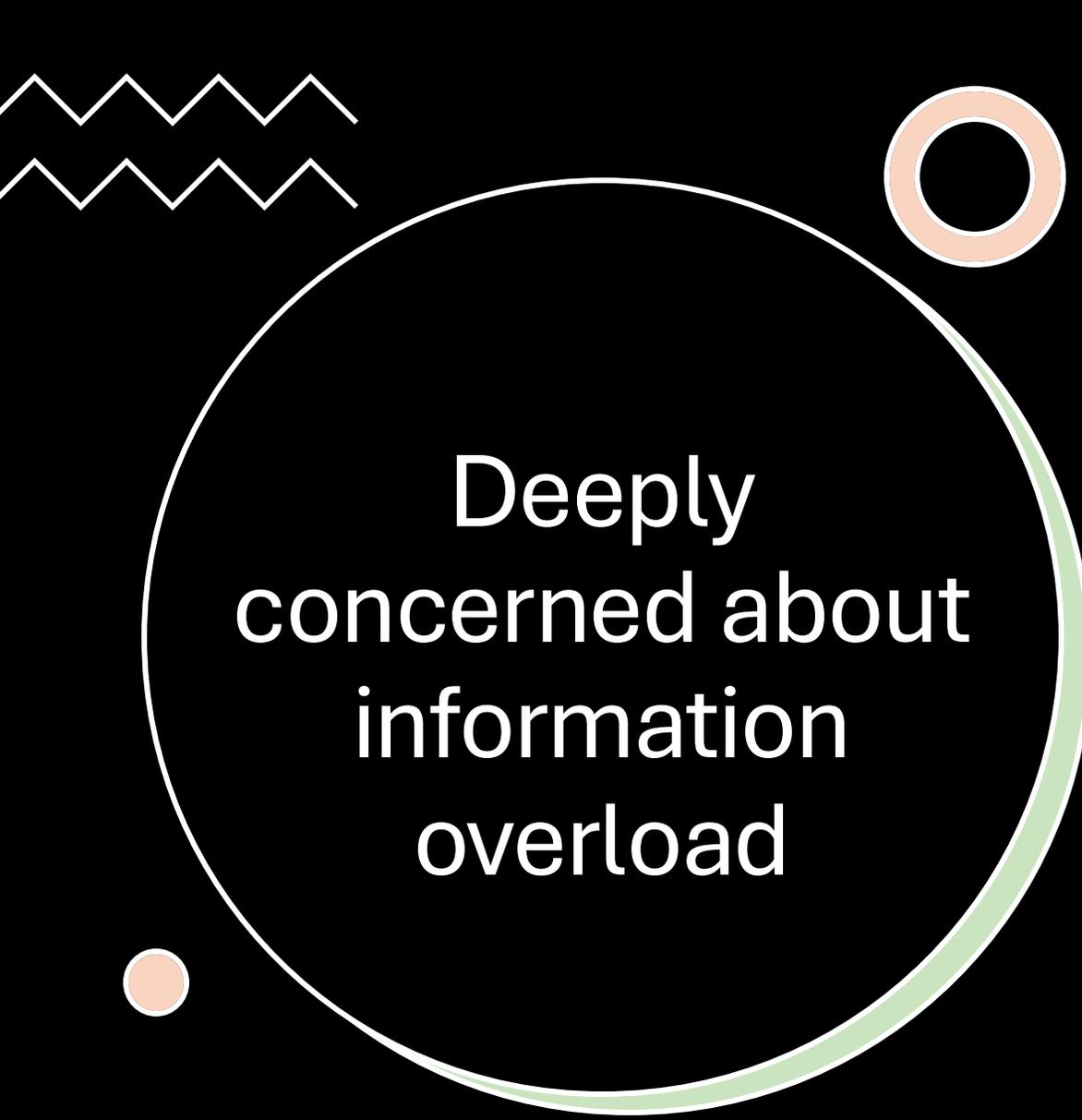


³⁰ And do not grieve the Holy Spirit of God, by whom you were sealed for the day of redemption.

Ephesians 4: 30

My son, if you receive my words and treasure up my commandments with you, ² making your ear attentive to wisdom and inclining your heart to understanding; ³ yes, if you call out for insight and raise your voice for understanding, ⁴ if you seek it like silver and search for it as for hidden treasures, ⁵ then you will understand the fear of the LORD and find the knowledge of God.

Proverbs 2: 1-5



Deeply concerned about information overload

- We are facing a flood of information through the internet, social media
 - This flood of information is now being manipulated beyond simple algorithms
 - Information is being automatically changed to manipulate you, and me
 - As Christians, who walk by the Spirit, we are facing a real threat
- 

What Must I Do to Be Saved?

According to the Bible:

1. Recognize Your Need for Salvation (Sin):

"For all have sinned and fall short of the glory of God." — Romans 3:23

We are all separated from God because of sin and cannot save ourselves through good works or effort.

2. Understand the Consequence of Sin:

"For the wages of sin is death, but the gift of God is eternal life in Christ Jesus our Lord." — Romans 6:23

Sin leads to spiritual death and separation from God, but God offers eternal life as a gift.

3. Believe in Jesus Christ:

"Believe in the Lord Jesus, and you will be saved." — Acts 16:31

Salvation comes through faith in Jesus — that He died for your sins and rose again.

4. Confess and Receive Him:

"If you confess with your mouth, 'Jesus is Lord,' and believe in your heart that God raised Him from the dead, you will be saved." — Romans 10:9

This is not just belief in facts, but a personal trust in Jesus as your Savior and Lord.

5. Repent and Turn to God:

"Repent, then, and turn to God, so that your sins may be wiped out." — Acts 3:19

Repentance means turning away from sin and turning toward God.



In Summary:

To be saved:

- Acknowledge that you're a sinner.
- Believe in Jesus Christ — that He died for your sins and rose again.
- Repent of your sins and turn to God.
- Confess Jesus as Lord and receive Him by faith.

This is the beginning of a new life — not just a one-time decision, but a relationship with God that continues and grows.

If you're coming from a different religious background or philosophical perspective, let me know — I can tailor the answer accordingly. **Would you like help praying or taking the next step?**

yes please help me pray

Absolutely. Here's a simple, sincere prayer you can say to God. There's no magic in the words — what matters is your heart. You can speak it aloud or quietly in your heart, wherever you are.

A Prayer for Salvation:

***"God, I come to You today knowing that I need You. I admit that I have sinned and fallen short of Your glory. I believe that Jesus Christ is Your Son — that He died on the cross for my sins and rose again so I could be forgiven and have eternal life.

Right now, I turn away from my old life and ask You to forgive me. I surrender my heart and life to You. I trust Jesus as my Savior, and I receive Him as my Lord.

Please fill me with Your Holy Spirit. Help me to follow You, to grow in faith, and to walk in Your love and truth each day.

Thank You for saving me. I give You my life.

In Jesus' name, Amen.***



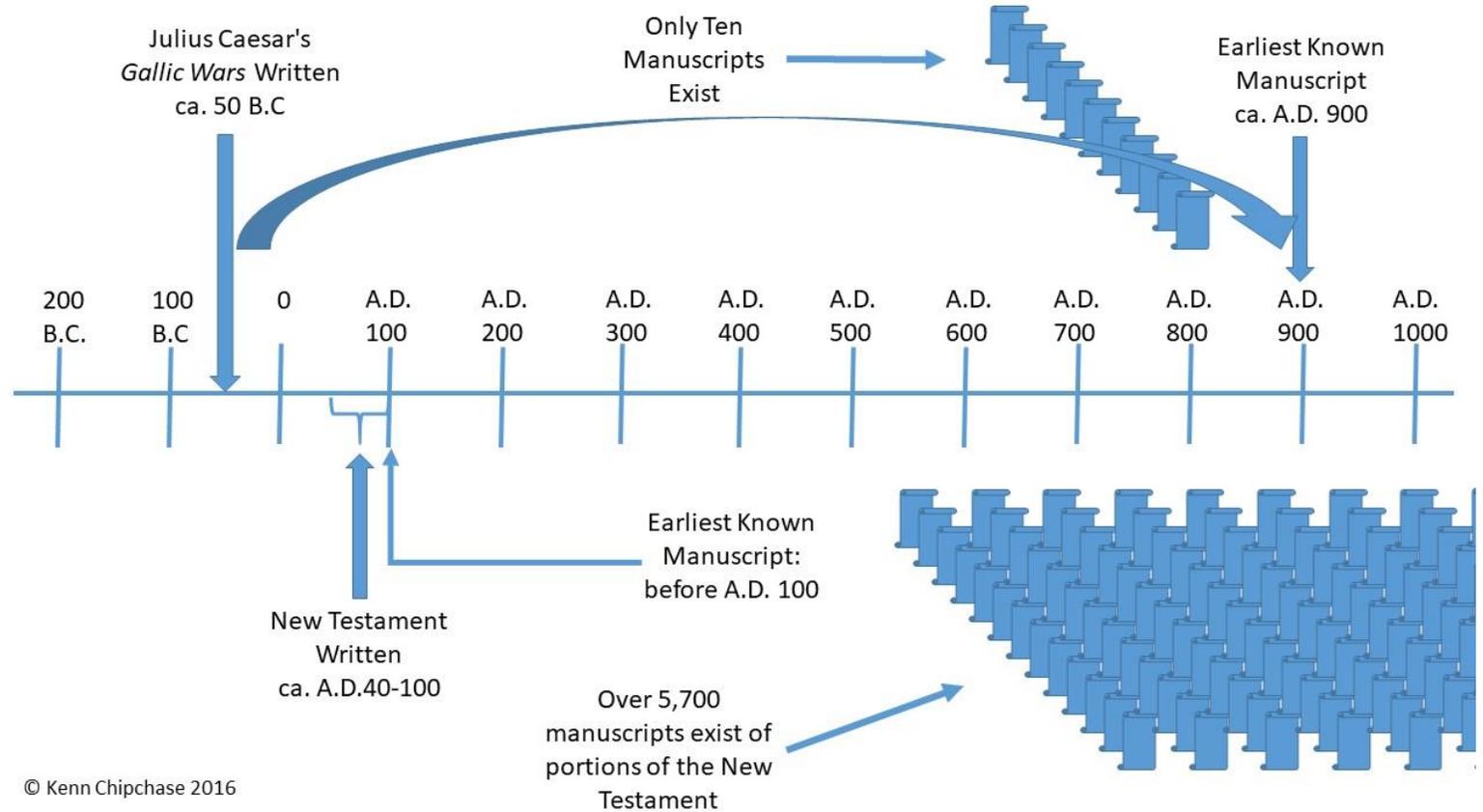
**When absolute truth
of God collides with
the pride of man**

Age of Biblical Texts

- **Genesis, Exodus, Leviticus, Numbers, Deuteronomy:** 1446-1406 BC; may have been mostly oral tradition until much later
- **Joshua:** 1400-1370 BC; possibly oral tradition recorded during the reign of Josiah (late 600s BC)
- **Judges:** 1045-1000 BC; possibly oral tradition recorded during the reign of Josiah (late 600s BC)
- **Ruth:** 1011-931 BC (likely during reign of David)
- **1 & 2 Samuel:** 930-722 BC; may have been mostly oral tradition compiled during the reign of Josiah (late 600s BC)
- **1 & 2 Kings:** 560-540 BC
- **1 & 2 Chronicles:** 450-425 BC
- **Ezra:** 440-430 BC, **Nehemiah:** 430-400 BC
- **Esther:** Probably around 400 BC

<u>AUTHOR</u>	<u>When Written</u>	<u>Earliest Copy</u>	<u>Time Span</u>	<u>No. of Copies</u>
Caesar	100-44 B.C.	A.D. 900	1000 yrs.	10
Livy	59 B.C.-A.D.17			20
Plato (Tetralogies)	427-347 B.C.	A.D. 900	1200 yrs.	7
Tacitus (Annals of Rome)	A.D. 100	A.D. 1100	1000 yrs.	20
Pliny the Younger (History)	A.D. 61-113	A.D. 850	750 yrs.	7
Thucydides (History)	460-400 B.C.	A.D. 900	1300 yrs.	8
Suetonius (De Vita Caesarum)	A.D. 75-160	A.D. 950	800 yrs.	8
Herodotus (History)	480-425 B.C.	A.D. 900	1300 yrs.	8
Sophocles	496-406 B.C.	A.D. 1000	1400 yrs.	193
Catullus	54 B.C.	A.D. 1500	1600 yrs.	3
Euripides	480-406 B.C.	A.D. 1100	1500 yrs.	9
Demosthenes	383-322 B.C.	A.D. 1100	1300 yrs.	200+
Aristotle	384-322 B.C.	A.D. 1100	1400 yrs.	49*
Aristophanes	450-385 B.C.	A.D. 900	1200 yrs.	10
Homer (Iliad)	900 B.C.	400 B.C.	500 yrs.	643
New Testament	A.D.50-100	A.D. 125	25yrs.	over 24,000
+ all from one copy.				
* of any one work.				

Science to prove the reliability of scriptures



Our one and only true authority: John 17: 17 'Sanctify them in truth, your word is truth'



Questions?