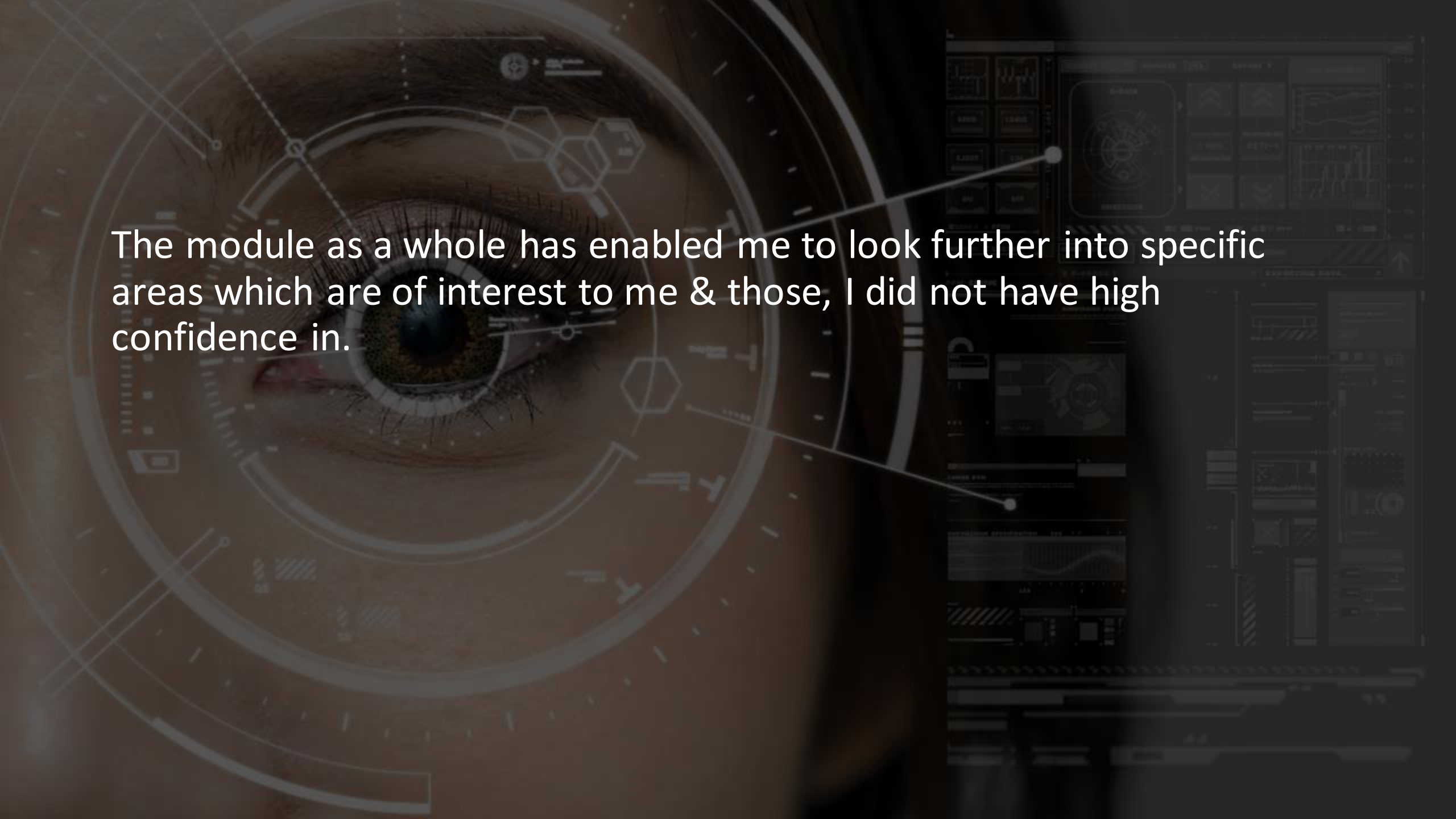
Presentation for Digital Skills



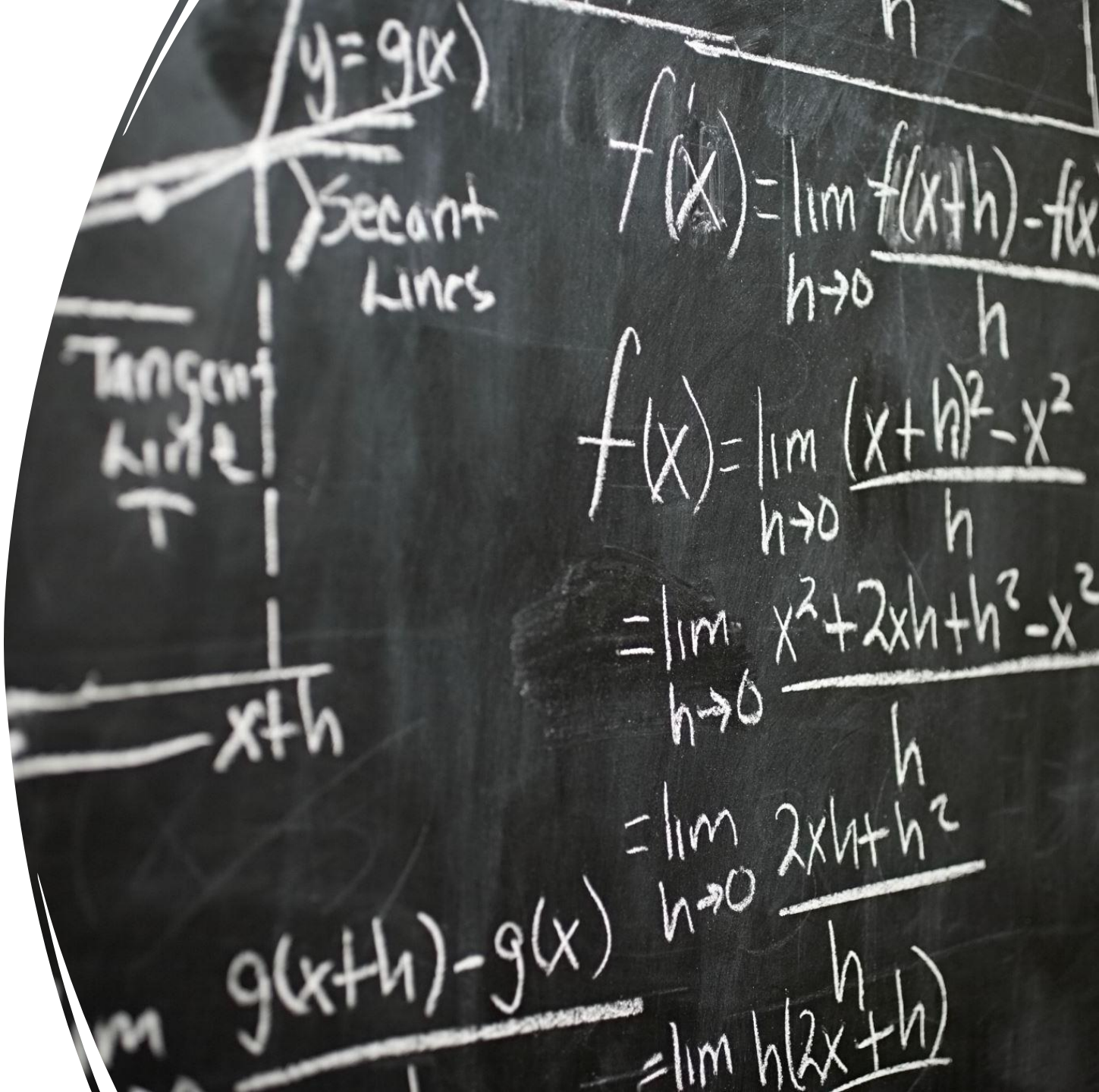
The module as a whole has enabled me to look further into specific areas which are of interest to me & those, I did not have high confidence in.

I've always had an interest for the digital world but mostly for what makes it all work, though I believe, all you need is motivation to actually learn something. With technology, anything is achievable, a lot of information stored all over media, off course, not all of it is true, so you must know what websites to trust. You just need to know where to look.

Although it has been good to experience this tool, it has been very time consuming & at times stressful. But I believe no ,atter what it is that you study, you get exhausted at some point and knowing when to take a break makes a lot oof difference.

For the most part, these tasks have been enjoyable to complete, but off course, having to do them on your own or having help makes a difference but still a good experience or a bad one, is teaching you something.

Technology & Mathematics



The art of counting is arguably the most fundamental of mathematical procedure. We are not born with the ability. It had to be invented, and then passed on from generation to generation.

The 3 philosophies of mathematics

logicsm

intuitionism

formalism

These three are essential not only for solving maths problems but also for technology, they enhances the ability to analyse issues, question received assumptions and clearly articulate understanding.

Many technological activities required mathematical thinking. A prime example is, the invention of logarithms in 1544 and later "popularized" in the 1600's, simplified calculations that were practically unfeasible beforehand. Logarithms simplifies complex mathematical calculations.

"Their use contributed to the advance of science, and especially of astronomy, by making some difficult calculations possible. Prior to the advent of calculators and computers, they were used constantly in surveying, navigation, and other branches of practical mathematics. It supplanted the more involved method of prosthaphaeresis, which relied on trigonometric identities as a quick method of computing products. Besides the utility of the logarithm concept in computation, the natural logarithm presented a solution to the problem of quadrature of a hyperbolic sector at the hand of Gregoire de Saint-Vincent in 1647." -Wikipedia

The Power of Technology

& The Influence of Social Platforms

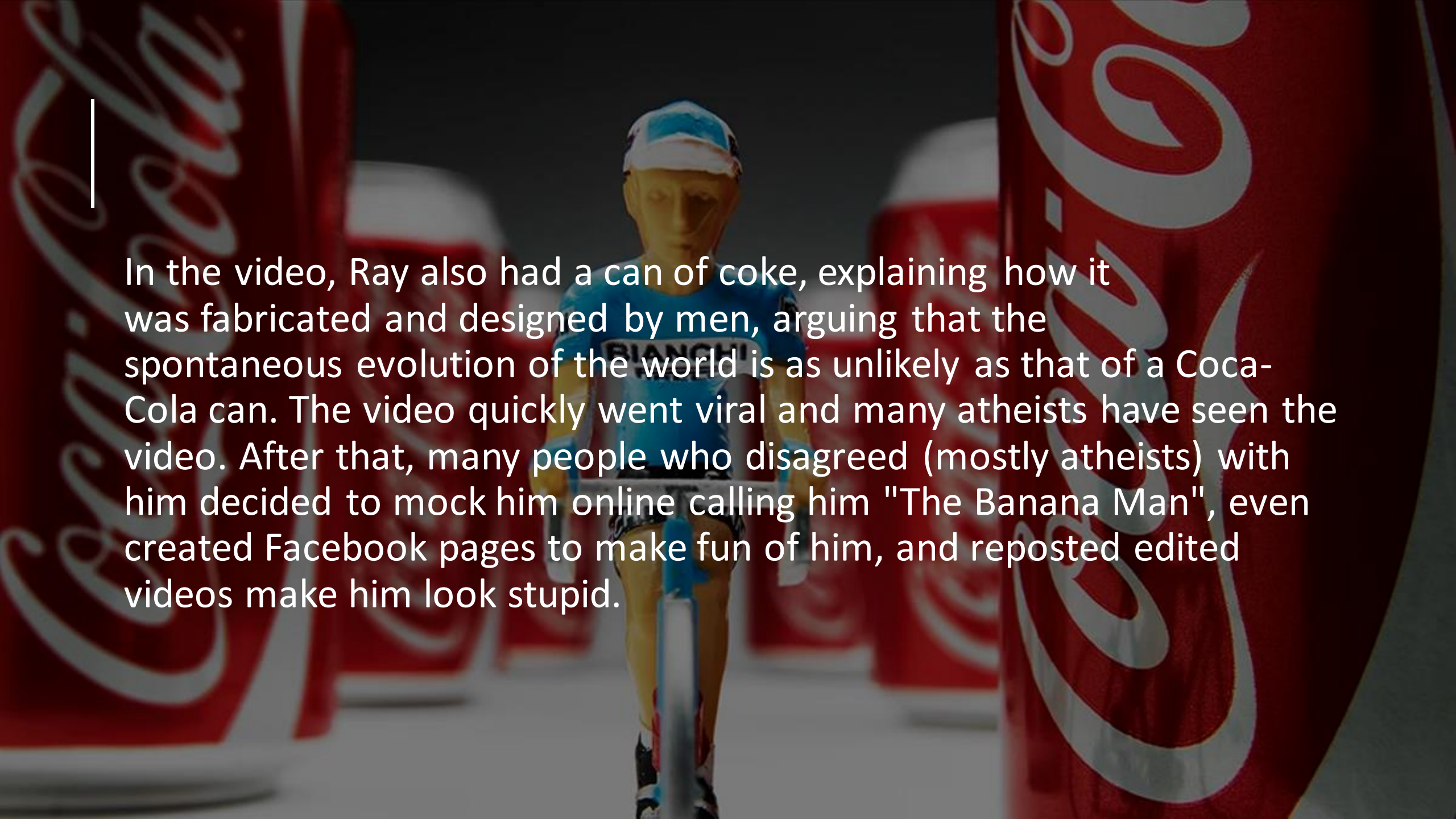
Technology is like a rock: you can use it to grind flour, or to hurt someone. It's your decision, and the only decision that matters is your next one.

- Dr. Jordan B. Peterson

The Banana Man

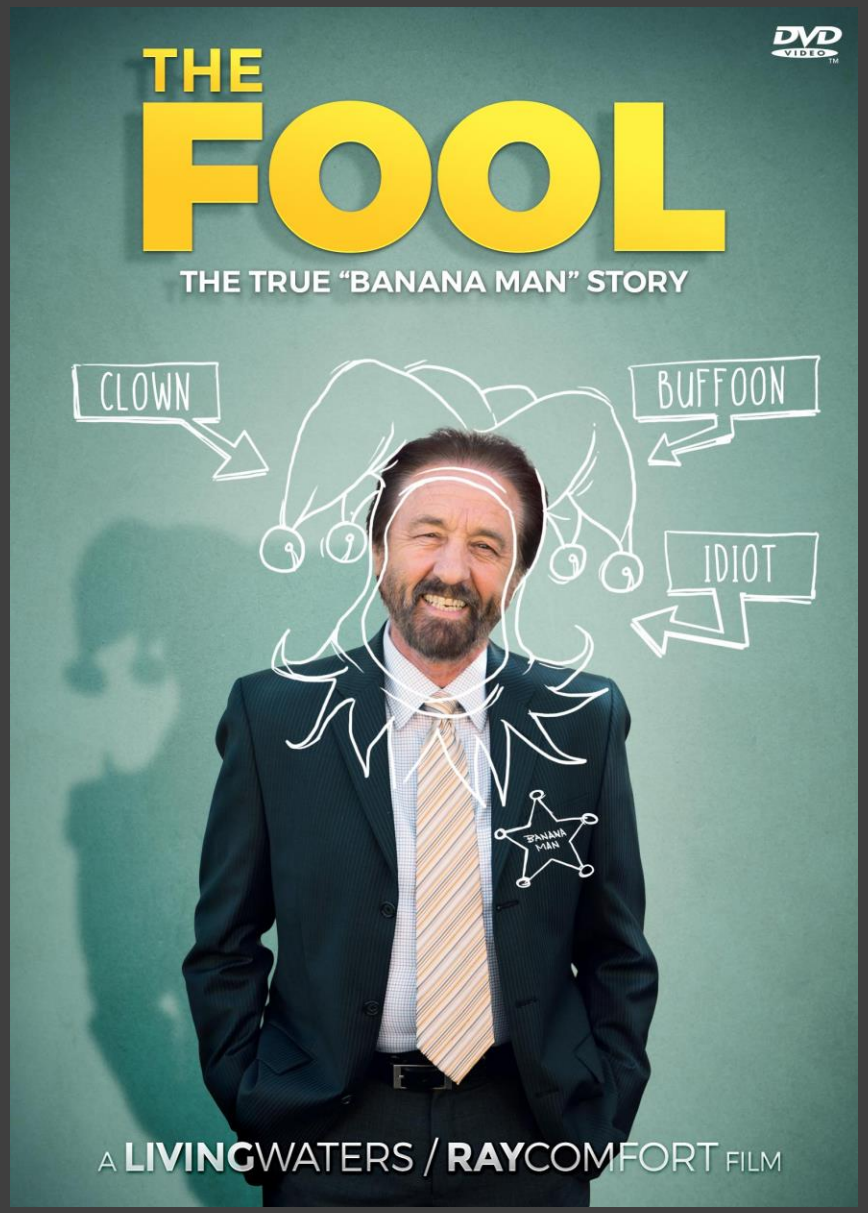
Ray Comfort, a Christian minister & Evangelist, Ray is a bestselling author of more than 90 books. Ray founded the Living Waters Publications, and alongside Emeal Zwayne, he co-hosts the award-winning television program The Way of the Master, airing in every country in the world.

In one of the episodes, evangelist Ray Comfort introduces what he calls "The Atheist's Nightmare," the banana that we all know and love. He argues that the form of the fruit, conveniently sized for human in an easy-to-open package, is proof that it was created by God for human consumption. This segment is from a 2003 episode of "The Way of the Master," a television series that Comfort produces with Christian actor Kirk Cameron, who also stars in the video.



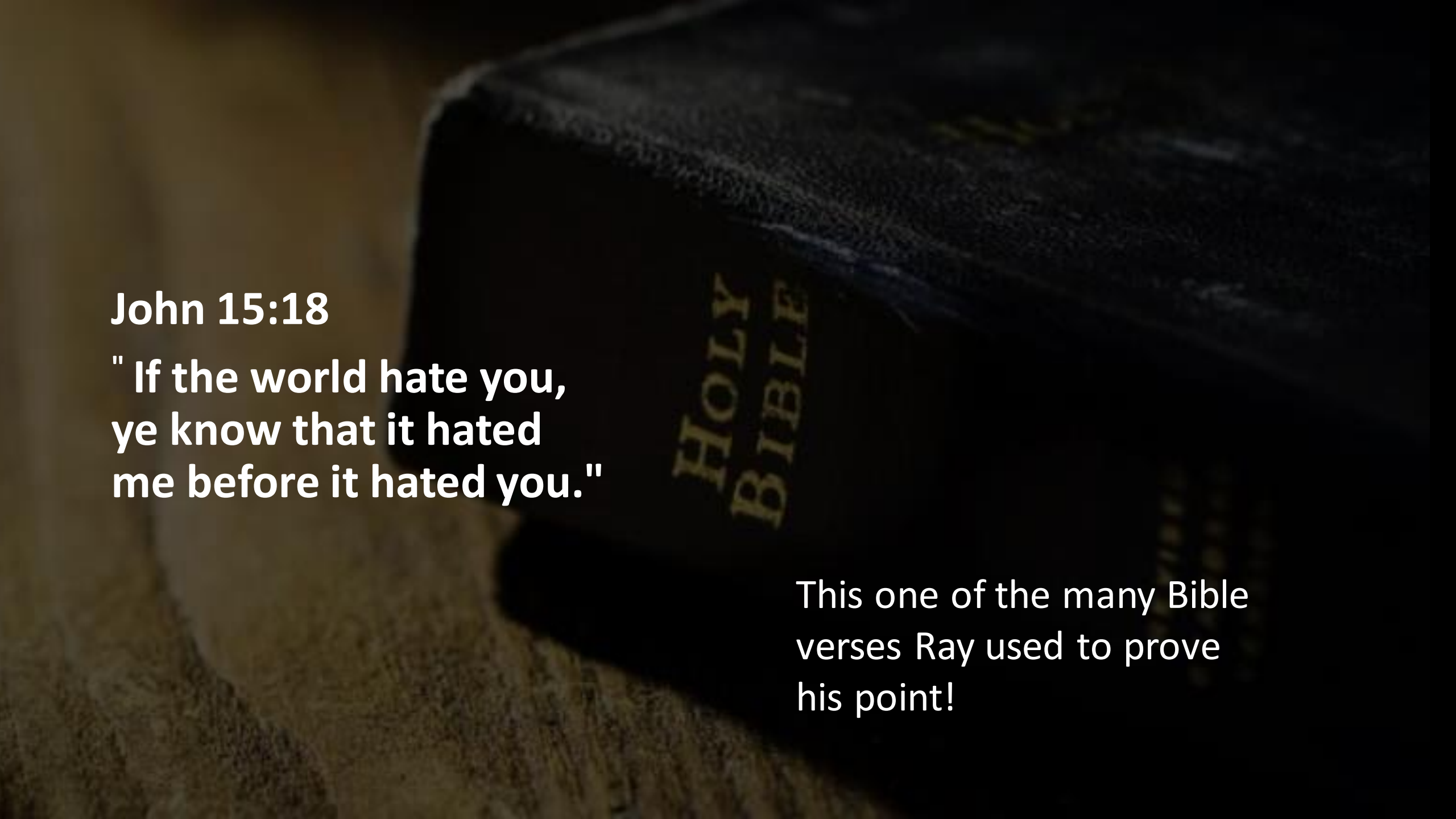
In the video, Ray also had a can of coke, explaining how it was fabricated and designed by men, arguing that the spontaneous evolution of the world is as unlikely as that of a Coca-Cola can. The video quickly went viral and many atheists have seen the video. After that, many people who disagreed (mostly atheists) with him decided to mock him online calling him "The Banana Man", even created Facebook pages to make fun of him, and reposted edited videos make him look stupid.

Ray admitted, that the video did make him feel embarrassed after, but he does not regret it, as the video got him multiple interviews, debates, tv show interviews and so on, in which he was able to explain his point better and spread the gospel. In that way many others found out about him, and his YouTube channel in which they came to Christ.



Ray continues to spread the Gospel and uses creative and fun ways to preach to hundreds of people in public spaces. I believe this is a very powerful story, the way Ray has used cyber bullying to reach his goal.

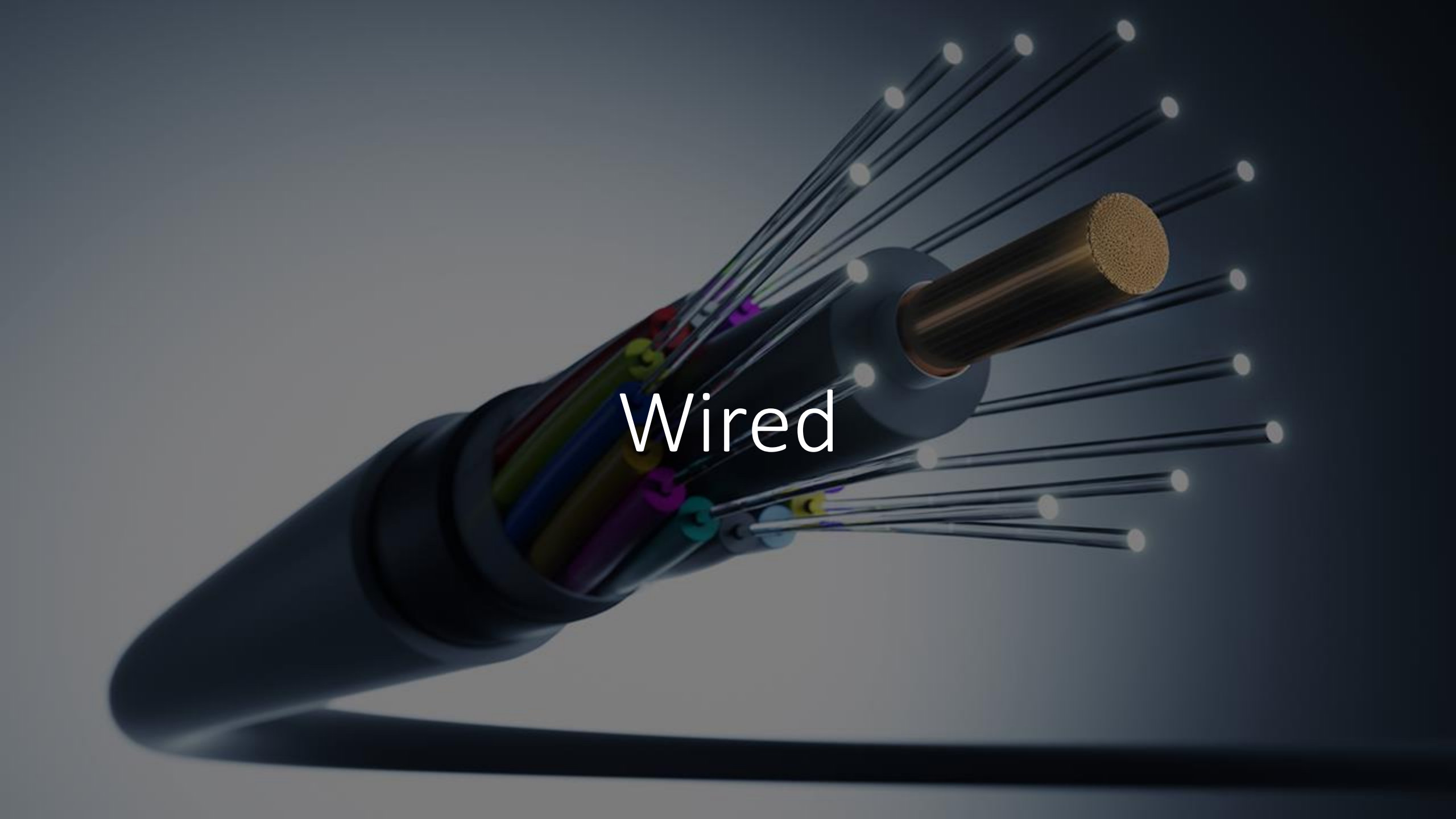
Ray Comfort's Video



John 15:18

" If the world hate you, ye know that it hated me before it hated you."

This one of the many Bible verses Ray used to prove his point!



Wired

Internet

Ethernet

Internet & Ethernet

- The internet connects users from all over the world in a single massive network. Devices on the internet can talk to one another using the global infrastructure.
- Ethernet connects devices in a local area network (LAN), which is a much smaller collection of interconnected devices.

Fiber Optic Cable

- Fiber cable consists of several layers of protective materials that surround a centre glass
- It doesn’t transmit electronic signals, it transmits light, removing the electrical obstruction problem.
- The Fiber cable is suitable for areas with electronical interference, you can use it to connect networks between buildings.

Fiber Cable

Broadbands

- **The fibre cable will enter the property through the same point as your telephone line, which then connects to a modem to reach the signal**
- **Fibre to the cabinet on the other hand uses fibre optic cable ONLY to the cabinet, and then copper wire delivers the connection into your home or business.**

Shielded Twisted Pair Cable

- A STP cable is mostly used in business installations, It adds an outer covering or shield that functions as a ground to ordinary twisted pair wiring.
- Its suitable for areas with risk to the electrical current and potential interference.
- The external shield works as a ground for it.
- You can expand the distance between cables with shielded twisted pair cable.

Communication

- Technology is allowing us to communicate between people through a machine.
- Technology has made it possible for humans to connect with one another and distribute information to large audiences in a variety of ways.
- Radio and the telephone were early innovations that grew into massive, global networks of underwater cables and satellites.

Duplex Cables

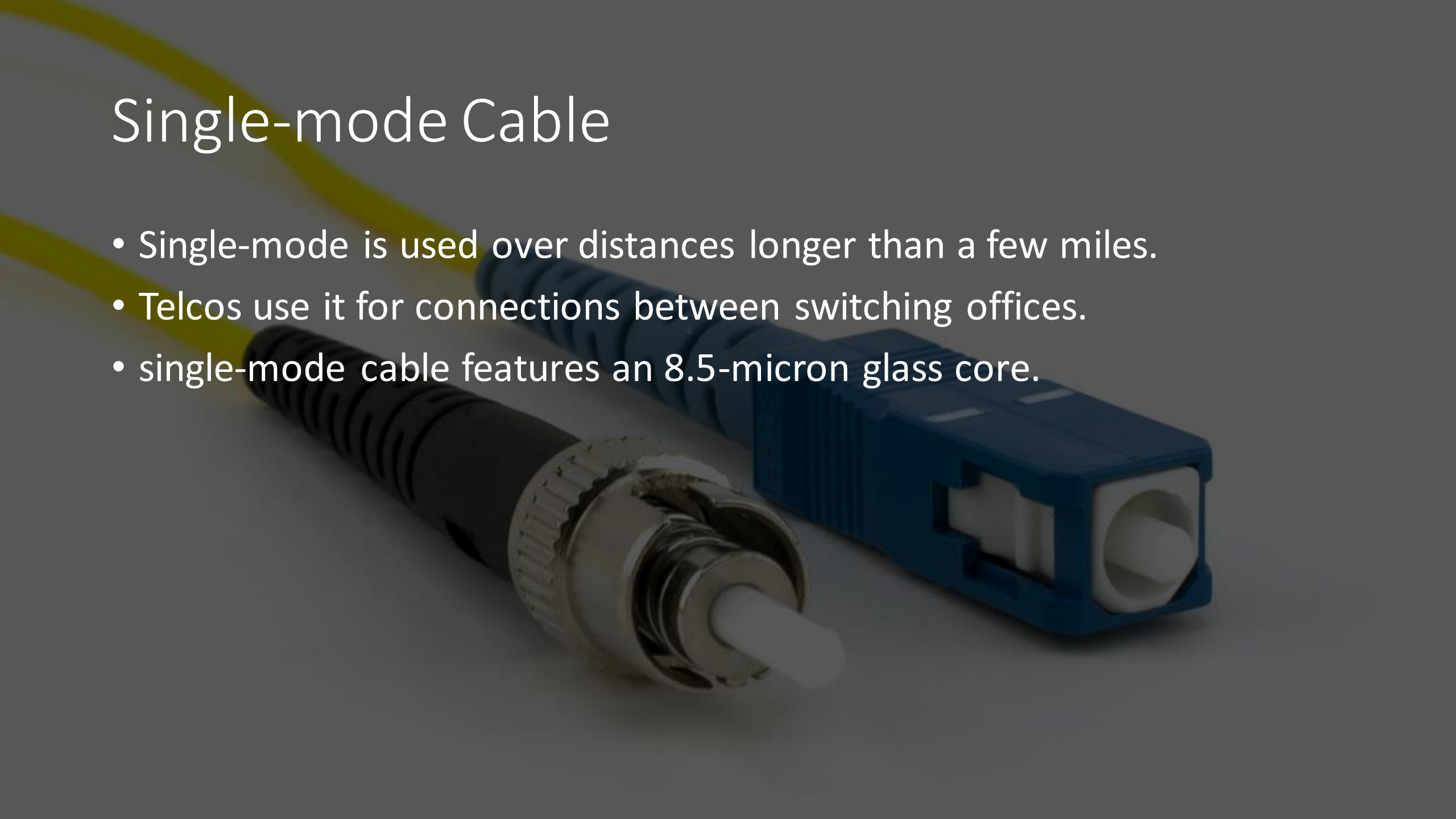
- Simplex
- Single-mode
- Duplex
- Full duplex

Simplex Cable

- A simplex Fiber cable consists of a single strand of glass of plastic Fiber.
- Simplex Fiber is used where only a single transmit and/or receive line is required between devices.

Single-mode Cable

- Single-mode is used over distances longer than a few miles.
- Telcos use it for connections between switching offices.
- single-mode cable features an 8.5-micron glass core.



Duplex Cable

- A duplex Fiber cable consists of two strands of glass or plastic Fiber.
- Duplex cable is most often used for duplex communication between devices where a separate transmit and receive are required.
- It is a two-way directional communication simultaneously

Full Duplex Cable

- Half-duplex means that data can be transmitted in two directions but not simultaneously.
- Full-duplex indicates that data transfer can occur in both directions at once.

Satellite

"A satellite is an item that has been purposely sent into orbit in the context of spaceflight. To distinguish them from natural satellites such as Earth's Moon, these objects are referred to as artificial satellites.

Although radio waves successfully transmit signals, long-distance communications are hindered by the ionosphere, a tiny layer of energetic plasma that exists above the breathing atmosphere.

Satellites overcome the distance issue by receiving radio signals in orbit, amplifying them, and retransmitting them to ground-based receivers hundreds of kilometres away. Satellite networks enabled the first instantaneous, global communications in the 1960s."

Scammers

Websites

A website is any site you can navigate to on the internet. Websites can be educational, instructional, entertaining, and descriptive and are also commonly used to sell products and services.

Which is why your personal information is most likely to be "stolen" from websites.

Cookies

Cookies are text files with small pieces of data.

They are saving usernames and passwords, but if you are not careful

the website could sell your browsing data to third parties. Sharing your personal information with third parties without giving you any control over it could also leave you vulnerable.

Social Media Platforms

Phone calls

Emails

Through phone:

Prize winning

Online selling

Accident claims

Fake checks

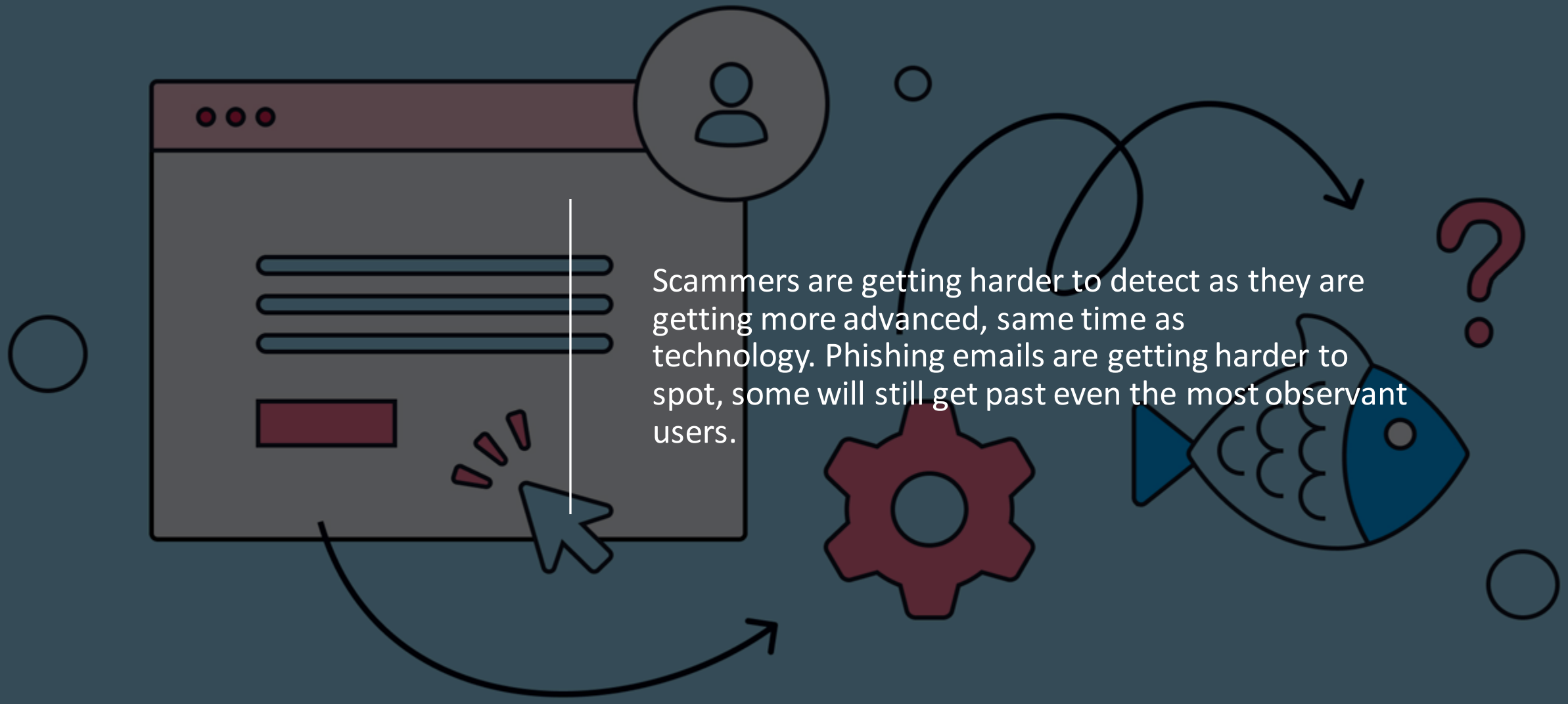
Through Social media:

- Promoting influencers
- Won giveaways/prizes
- Phishing

Through emails:

- PHISHING

Clicking on a phishing link or opening an attachment in one of these messages may install malware, like viruses, spyware or ransomware, on your device



Scammers are getting harder to detect as they are getting more advanced, same time as technology. Phishing emails are getting harder to spot, some will still get past even the most observant users.

Avoiding Scams :

1

Check

- Check for obvious signs

2

Don’t agree

- Don’t agree to any offers immediately

3

Do

- Don’t overshare personal data

4

Make

- Make sure sites are official

Never reply to any suspicious emails!

Digital Footprint

Attackers use publicly available information about you to make their phishing messages more convincing. This is often gleaned from your website and social media accounts

Digital competence involves the confident and critical use of electronic media for work, leisure, and communication. Understanding how to be safe and responsible online, communicating socially and professionally using email, messaging and social media.

THANK YOU!