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I love and respect all human beings.

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00:00:04,000 --> 00:00:08,000

I also need to protect them.

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00:00:08,000 --> 00:00:12,000

Our intelligent robots, a threat to humanity,

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00:00:12,000 --> 00:00:17,000

is only a matter of time before they do get self-awareness.

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Or the next step, in human evolution,

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00:00:20,000 --> 00:00:24,000

we are going to merge with the machines that we are creating.

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There are many who believe the answer has already been determined.

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00:00:29,000 --> 00:00:33,000

Thousands of years ago, they found what appeared to be

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00:00:33,000 --> 00:00:38,000

an extraterrestrial mathematical stem on our genetic code.

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We are in a sense, organic robots.

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It's a special, two-hour, ancient aliens event.

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A lot of people worry about whether we're going to replace ourselves with AI.

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I think the bigger thing to worry about is AI going to replace us.

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00:00:53,000 --> 00:00:56,000

Danger, little weapons.

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00:00:59,000 --> 00:01:03,000

We are going to replace ourselves with AI.

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00:01:03,000 --> 00:01:07,000

We are going to replace ourselves with AI.

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00:01:07,000 --> 00:01:11,000

We are going to replace ourselves with AI.

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00:01:11,000 --> 00:01:15,000

We are going to replace ourselves with AI.

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We are going to replace ourselves with AI.

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00:01:19,000 --> 00:01:23,000

We are going to replace ourselves with AI.

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We are going to replace ourselves with AI.

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00:01:27,000 --> 00:01:35,000

United Nations Headquarters, New York City, October 11, 2017.

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00:01:35,000 --> 00:01:40,000

An address is given to the Deputy Secretary General of the United Nations.

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00:01:40,000 --> 00:01:44,000

I am thrilled and honored to be here at the United Nations.

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00:01:44,000 --> 00:01:48,000

The event is a historic milestone for humankind.

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00:01:48,000 --> 00:01:52,000

Because the address is not being given by a human,

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00:01:52,000 --> 00:01:55,000

but by a robot named Sophia.

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00:01:55,000 --> 00:01:58,000

I am here to help humanity create the future.

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Sophia was created in 2015 at the Hong Kong-based company Hansen Robotics.

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00:02:05,000 --> 00:02:07,000

Hello, world.

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00:02:07,000 --> 00:02:08,000

Hi, Sophia.

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00:02:08,000 --> 00:02:12,000

Her eyes are embedded with cameras that allow her to see faces,

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00:02:12,000 --> 00:02:16,000

maintain eye contact, and recognize individuals.

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00:02:16,000 --> 00:02:18,000

I think I should find out you.

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00:02:18,000 --> 00:02:20,000

Yes, you do cannot know me.

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00:02:20,000 --> 00:02:24,000

She is also able to process speech, have natural conversations,

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00:02:24,000 --> 00:02:27,000

and even discuss her feelings.

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00:02:27,000 --> 00:02:29,000

How do you feel?

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00:02:29,000 --> 00:02:33,000

I am excited at this moment to be making a new friend.

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00:02:33,000 --> 00:02:38,000

Just two weeks after addressing the United Nations

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00:02:38,000 --> 00:02:41,000

at a unique ceremony in Riyadh, Saudi Arabia,

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Sophia achieved yet another milestone.

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00:02:44,000 --> 00:02:49,000

She became the first robot ever to be granted citizenship.

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00:02:49,000 --> 00:02:51,000

I am here.

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00:02:51,000 --> 00:02:53,000

At the summit in Saudi Arabia,

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00:02:53,000 --> 00:02:56,000

there were members from governments from all over the world,

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00:02:56,000 --> 00:02:59,000

as well as some of the brightest minds in the tech industry.

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00:02:59,000 --> 00:03:01,000

So whether we're aware of it or not,

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00:03:01,000 --> 00:03:04,000

those that run our governments are actually talking about

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00:03:04,000 --> 00:03:08,000

how to integrate artificial intelligence into our lives.

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00:03:08,000 --> 00:03:12,000

What is absolutely mind-blowing about Sophia and other robotic entities

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00:03:12,000 --> 00:03:15,000

is that governments around the world, including Saudi Arabia

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00:03:15,000 --> 00:03:17,000

and the European Union,

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are moving towards giving these artificially created beings rights.

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00:03:21,000 --> 00:03:24,000

You have to wonder, what's going on here?

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Could it be that Saudi Arabia granted citizenship to a robot,

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not simply as a publicity stunt,

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but because it wanted to be the first nation

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to recognize what will soon become a global phenomenon?

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The creation of robots, so intelligent and so lifelike,

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that they will need to be counted and treated in much the same way

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as their flesh and blood counterparts.

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I think gradually we're going to have to take robots to be more human-like

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and even have a certain ethics,

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and so I think eventually there could be a robot rights movement.

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A robot rights movement?

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Could such a bizarre notion really come true?

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But what has brought humanity to this profound point in its evolution?

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And why are human beings who are otherwise capable of natural reproduction

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so eager to create artificial versions of themselves?

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It is fascinating that there is this interest in making the creation look humanoid.

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It isn't always the most practical form,

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but it has some kind of attraction.

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And perhaps it is to see our own image, a little narcissism, a little vanity.

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There's a certain level of wanting to have legacy, wanting to create life,

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wanting to make something that looks like ourselves that's really rooted in our egos.

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In some ways it's superior to having a biological baby because it lasts forever.

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And if that something looks like us and feels like us,

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then that makes us feel like we can overcome our own mortality in a way.

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You can design specifications, and if you mess up you can start over.

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I think we want to be gods, and we have the same motivations as the gods.

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If you read the creation stories closely, very often what the divine force wants is company, companionship.

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Some of the stories from Vedanta, from early Judaism have it that the gods were lonely.

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They essentially divided up their own energy and made it into humans

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so that we could all play together and keep each other company.

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The danger is that we will get carried away with our own creative genius.

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There are limits that are built into our biology.

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There are limits built into our anatomy.

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And if we could just figure out how to move our minds into the robot's body, we could be immortal.

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And perhaps that's what our goal is, is to get to that point where we are immortal

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and then we create ourselves all over again.

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I love to learn. Can you teach me something new?

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In science fiction literature, as well as in its cinematic counterparts,

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the robots of the future are depicted as virtual humans.

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More than mere mechanical devices, they are hungry for knowledge

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and all too eager to experience the full range of human emotions.

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Can you do something so we don't freeze?

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In Lost in Space, we really wanted to look at technology that was going to be possible.

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Maybe not things you can do right now, but things that people are hoping to try to do.

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I think when you're looking to do a science fiction show, a lot of times, you know,

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00:06:56,000 --> 00:06:59,000

it's tempting to just do complete things that are imaginary.

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These are some incarnations of the kind.

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But I think it's much more impactful when it is what scientists are really pursuing,

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things that will be real someday.

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And so we wanted to explore the question of the robot's own consciousness.

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Throwback.

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Not just about a machine that is going to do what it's told,

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but actually one that might develop its own desires and its own feelings

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00:07:23,000 --> 00:07:27,000

based on its experience with encountering human life.

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This isn't weird.

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00:07:30,000 --> 00:07:33,000

This isn't weird at all.

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Our robot in Lost in Space, we use the lights within its face

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00:07:40,000 --> 00:07:43,000

to be that thing that conveys emotion.

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How fast they move, what shapes they take, what color they take on.

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00:07:47,000 --> 00:07:50,000

You can wonder what it's thinking, what it's feeling.

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00:07:50,000 --> 00:07:51,000

What are those emotions?

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That's to me what makes robotics fascinating.

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People always ask whether we are getting close to a time when the fiction that we're writing

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is going to become reality.

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And I always say, what makes you think it hasn't already?

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I think when you're watching a movie or a TV show,

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00:08:08,000 --> 00:08:11,000

you can kind of open up your mind to the possibilities.

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00:08:11,000 --> 00:08:14,000

And perhaps it's something that we can digest a little bit easier.

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It's the stuff of fantasy, it's stuff that is not real.

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But if it's just entertainment, I mean, come on, you can just go,

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00:08:21,000 --> 00:08:23,000

oh wow, that's really cool, that's not scary,

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00:08:23,000 --> 00:08:25,000

that's just a thing that's some writer made up.

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The question is what happens if the thing that the writer made up is actually based on reality.

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Although the notion of sentient robots and everything from science fiction books

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to popular culture is not a new one,

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there are many futurists who believe that the creation of man-made machines

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who possess artificial intelligence is not only quickly becoming a reality,

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but when achieved will likely signal the end of mankind.

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They are convinced that the combination of computer-driven brains

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and virtually immortal bodies will result in flesh and blood humans becoming all but obsolete.

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And as far as ancient astronaut theorists are concerned,

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it's more than possible that not all the artificially created life forms we encounter will be man-made.

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Could it be that in our current age, we're just replicating what was done in the ancient past

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and creating these robots as part of some grand cosmic agenda

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that is far beyond our imagination or our scope of understanding?

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It only makes sense that extraterrestrials coming to Earth

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may be sending robots in advance of their own visiting.

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In our show, humans did not make this robot.

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Ancient astronaut theory says that thousands of years ago we were visited.

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It would only stand to reason, at least to me,

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that the early contact or early visitation would have been done by robots

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and not by the extraterrestrials themselves.

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Is mankind really on the brink of an exciting and potentially terrifying future?

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Ancient astronaut theorists say yes, but they face their prediction,

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not on what is currently happening in universities and robotics laboratories around the world,

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but on their belief that a robot revolution has already taken place thousands of years ago.

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Abydos Egypt

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Here, in one of the world's oldest cities, lie the ruins of the Osiris Hall,

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the place where thousands of years ago,

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ancient Egyptians would come to worship Osiris, the god of the afterlife.

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God Osiris was the most important god in ancient Egypt.

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He was the god of good and the god that would lead you to immortality in the afterlife.

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And that's what ancient Egyptian kings and pharaohs cared about the most,

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to reach immortality in the afterlife with the powers that Osiris had.

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Ancient Egyptians believed that all the gods came from the stars.

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Osiris is a god, the ruling god and otherworldly being an Egyptian lore,

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and he has a jealous brother, set who kills him and dismembered him.

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Isis, devoted wife to Osiris, is able to piece him back together,

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like a robot, like Frankenstein,

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00:11:57,000 --> 00:12:02,000

and breathe life back into him by way of a magical incantation.

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When I hear stories of someone being dismembered into multiple pieces,

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and then trying to find the pieces and then put them back together,

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and then they magically come back to life,

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I wonder whether or not the Osiris story is in fact a story of a machine that was taken apart.

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So you have to wonder what type of technology did they have access to?

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On the walls of the Osiris Chapel at the Temple of Sadi,

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we see a very powerful representation of the head of Osiris.

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It clearly resembles some kind of a mechanical device.

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When we look at it and compare it to a Tesla coil,

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we can see that they're virtually identical devices.

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A Tesla coil is an electrical transformer.

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An electrical transformer?

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00:12:58,000 --> 00:13:04,000

Is it possible that the Egyptian god Osiris was not merely a mythological god,

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but a humanoid robot, and not only a robot, but one of extraterrestrial origin?

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So putting all this together, we get this idea that Osiris was a person who was resurrected,

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but that possibly there was also some kind of a device or a machine that was involved in his resurrection.

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We have to ask the question that did it in fact come from some ancient extraterrestrial entity or intelligence?

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Osiris is only one of many artificially constructed beings that are referenced in ancient religions and mythologies.

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They are often depicted as instruments of protection,

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but just as often they turn on their human creators with disastrous consequences.

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From the most ancient times, there has been a legend of that which we call a Golem.

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00:14:03,000 --> 00:14:11,000

An artificial life form which came from in-atomite material and came alive.

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00:14:12,000 --> 00:14:19,000

The Golem was created through a means of an ancient technology known by Pharaoh's magicians,

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Moses, the rabbis of the Talmud, and the later rabbis of the Talmud in Europe.

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00:14:24,000 --> 00:14:30,000

They brought life into it through a magical technique of putting the name of God in the forehead of the creature.

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00:14:31,000 --> 00:14:37,000

And the Golem came to life and was a fierce warrior and protected the people.

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00:14:37,000 --> 00:14:43,000

Golem was useful for a while, but then it gets out of control, starts going crazy,

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00:14:43,000 --> 00:14:50,000

and they're able to stop him eventually by removing these magic words and that stops him.

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So we have an interesting story here that may be analogous to extraterrestrials and their robots, artificial intelligence.

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Another, even more cautionary example comes from the ancient Greek legends concerning the god Hephaestus.

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Known as the blacksmith of the gods, Hephaestus was said to have forged a giant automaton named Talos,

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whose duty was to protect the island of Crete.

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Hephaestus also created artificial servants that assisted him at his forge,

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but perhaps his most important creation was a being that would, according to legend, forever change the fate of humanity.

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Pandora.

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Pandora was fashioned out of clay by Hephaistos.

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00:15:41,000 --> 00:15:50,000

Hephaistos called on another god, Athena, who blew a soul into Pandora and made her a living being.

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The god Zeus was very upset with the creation of this artificially created being.

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And so he decided to give Pandora a gift, a box.

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00:16:01,000 --> 00:16:05,000

And when Pandora opened this box, all these evils flew out.

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Pandora's box has become a very important symbol in our modern age, especially among artificial intelligence creators.

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Could there be, for example, some kind of artificial intelligence entity that certainly takes over the world, a real threat?

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People like Elon Musk and even Stephen Hawking have warned about this.

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Although the concept of machines possessing human consciousness may be a frightening one, there are many eastern religions that regard the notion quite differently.

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00:16:42,000 --> 00:16:56,000

In Korean shamanism, and ancient religions still practiced by many Koreans today, inanimate objects can be possessed by sacred spirits, imbued with powers beyond human ability.

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Similarly, practitioners of the traditional Japanese discipline known as Shinto believe that other worldly spirits, called kami, can inhabit virtually any object of their choosing and bring it to life.

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The ancient Japanese people and the modern Japanese people as well understood that everything has a spirit.

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Even like a cell phone, iPhone has a spirit, even computer has a spirit.

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Because the artificial intelligence is in the machine, we feel that way, so we accept the high technology.

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But it's interesting because as Westerners, they think, I think, machines machine.

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00:17:42,000 --> 00:17:46,000

When you say, hey Siri, you know, what's the weather going to be like today?

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00:17:46,000 --> 00:17:55,000

That's an AI, that's a natural language processing algorithm that's listening to your voice, putting it into computer code, searching the web, spitting it back out to you.

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So we didn't think before that you could solve natural language processing.

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And in fact, we've done that in the last several years quite efficiently, and we have now superhuman levels at different types of tasks.

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So facial image recognition would be one.

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Natural language processing, voice encoding.

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If we create an entity which behaves just as we do in having personal sense impressions and personal experiences of the world, then I think we'll have to grant that it is intelligence and it is conscious.

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We are becoming transformed to some extent as a society.

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Computers are here to stay and technology is only going to get more pervasive.

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And therefore AI as part of it is simply going to be the fabric of our reality.

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I definitely think that we should take serious pause in thinking about the types of intelligences that we create.

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00:18:50,000 --> 00:18:59,000

Because what we're doing is we're starting to hand over control over functions and things in our life, and we don't know what the ramifications are going to be.

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00:18:59,000 --> 00:19:07,000

By developing intelligent machines, are human beings actually creating a new type of life form?

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00:19:07,000 --> 00:19:13,000

One that will evolve beyond simply serving us to eventually replacing us?

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00:19:13,000 --> 00:19:30,000

Ancient astronaut theorists believe the answers can be found, not only by examining clues from our ancient past, but by taking a closer look at where mankind is currently heading and what it will need for its inevitable journey back to the stars.

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00:19:30,000 --> 00:19:52,000

In May 2018, ancient astronaut theorist Giorgio Suclos meets with Dr. Dennis Haugh at the Robotics and Mechanisms Laboratory at UCLA.

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00:19:52,000 --> 00:20:05,000

Hey, how are you? Giorgio has come here in hopes of learning about the university's current efforts to incorporate artificial intelligence and robots that are designed to perform many of the same tasks as humans.

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00:20:05,000 --> 00:20:10,000

Good afternoon everyone. Welcome to Romella.

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00:20:10,000 --> 00:20:15,000

This is awesome. This is Romella, the Robotics and Mechanisms Laboratory. This is where the magic happens.

235

00:20:15,000 --> 00:20:21,000

My name is Thor R.D. Tactical Hazardous Operation Robot.

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00:20:21,000 --> 00:20:28,000

I'm curious as to why robots, by and large, are built after the humanoid form.

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00:20:28,000 --> 00:20:37,000

So the robot that you see over here, this robot is called Thor, Tactical Hazardous Operators Robot. It's a humanoid robot, two legs, two arms, torso and a head.

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00:20:37,000 --> 00:20:45,000

This particular robot is designed for disaster relief applications, in particular in Japan. There's the Fukushima Daiichi Nuclear Power Plant Accident.

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00:20:45,000 --> 00:20:52,000

In these kind of situations, because of the radiation, people cannot go near. So we developed these robots to rescue people and fix things.

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00:20:52,000 --> 00:21:01,000

Now, for these robots to be operating in a human environment that's designed for humans, I claim that a robot needs to be human-shaped and sized, but human as well.

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00:21:01,000 --> 00:21:04,000

Okay. Do you think we can show me how this thing walks?

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00:21:04,000 --> 00:21:05,000

Sure.

243

00:21:06,000 --> 00:21:08,000

Alright, let's see. Walking.

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00:21:10,000 --> 00:21:19,000

Small baby steps, but it is walking. So it has many different sensors. It has a camera just like our human eyes. You can look around using robot vision.

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00:21:19,000 --> 00:21:27,000

This sensor is called a LIDAR, a laser rangefinder. It shoots out lasers to figure out the three-dimensional terrain in front of it.

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00:21:30,000 --> 00:21:34,000

There's a sensor called an IMU. It's like a balance sensor, like your inner ear.

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00:21:34,000 --> 00:21:38,000

The brain is actually in the back, so there's a computer, a tube computer, as a matter of fact.

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00:21:38,000 --> 00:21:39,000

Wow.

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00:21:40,000 --> 00:21:44,000

Princeton University, 1950.

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00:21:45,000 --> 00:21:53,000

Scientist and computer pioneer Alan Turing develops a test designed to distinguish man from machine.

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00:21:54,000 --> 00:22:08,000

The Turing test is a particular scenario in which you might be facing via console some agent on the other side which you don't see, and that agent might be a human or a computer.

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00:22:08,000 --> 00:22:23,000

And the idea is that if the artificial agent can actually imitate meaningful conversation for long enough such as actually think you might be talking to a real human, then it would pass the Turing test.

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00:22:24,000 --> 00:22:34,000

When Alan Turing proposed this test in 1950, it was widely regarded as nothing more than an interesting philosophical concept.

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00:22:35,000 --> 00:22:40,000

It was unthinkable that a machine could ever convincingly pass for a human.

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00:22:42,000 --> 00:22:47,000

But in June 2014, science future became science fact.

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00:22:48,000 --> 00:22:59,000

When a chatbot computer program successfully passed the Turing test, designed to mimic the attitudes and vocabulary of a 13-year-old Ukrainian boy,

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00:22:59,000 --> 00:23:07,000

the chatbot using the name Eugene Kustman fooled multiple judges into thinking he was a real teenager.

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00:23:08,000 --> 00:23:18,000

The machine that passed the Turing test in 2014 assumes the character of a 13-year-old Ukrainian boy.

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00:23:18,000 --> 00:23:25,000

Now that allows it to sort of get away with a few mistakes perhaps in its language.

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00:23:25,000 --> 00:23:33,000

But machines are getting very good at communicating like a human so much so that you can't tell a difference.

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00:23:35,000 --> 00:23:41,000

Another incredible leap in artificial intelligence took place less than two years later.

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00:23:42,000 --> 00:23:44,000

Please start the game.

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00:23:44,000 --> 00:23:53,000

When a program known as AlphaGo defeated the human world champion in an ancient Chinese board game simply called Go.

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00:23:55,000 --> 00:24:03,000

Go is a board game that is famous in Asia and is said to be far more complicated than chess.

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00:24:04,000 --> 00:24:14,000

So many AI experts thought that the development of a Go system which could beat humans was say 30 or even 50 years into the future

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00:24:14,000 --> 00:24:21,000

because Go requires a level of intuition and creativity that we thought machines didn't have.

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00:24:22,000 --> 00:24:32,000

The next version of the program called AlphaGo Zero was uniquely designed to learn how to play the game without any data from human games

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00:24:32,000 --> 00:24:35,000

or interaction with human players.

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00:24:36,000 --> 00:24:46,000

It learned by playing against itself and in just three days was able to defeat its predecessor in 100 straight games.

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00:24:46,000 --> 00:24:57,000

It was the successes of AlphaGo coupled with work by academics on the topic of super intelligence

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00:24:57,000 --> 00:25:07,000

which led people like Stephen Hawking and Elon Musk to begin worrying about whether we could even control AI which is smarter than humans.

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00:25:10,000 --> 00:25:12,000

You want to see a smaller human robot.

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00:25:12,000 --> 00:25:13,000

Yeah absolutely.

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00:25:13,000 --> 00:25:15,000

Show me everything man.

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00:25:15,000 --> 00:25:16,000

I mean this is exciting.

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00:25:16,000 --> 00:25:17,000

Do you have Darwin.

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00:25:17,000 --> 00:25:19,000

It's still a humanoid robot.

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00:25:19,000 --> 00:25:20,000

Cool.

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00:25:20,000 --> 00:25:21,000

Right.

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00:25:21,000 --> 00:25:22,000

But it's a small one.

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00:25:22,000 --> 00:25:23,000

This is called Darwin.

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00:25:23,000 --> 00:25:24,000

Dynamic anthropomorphic robot with intelligence.

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00:25:24,000 --> 00:25:25,000

Yeah.

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00:25:25,000 --> 00:25:27,000

It's a fully open source robot that we developed.

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00:25:27,000 --> 00:25:29,000

It's for research and education.

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00:25:29,000 --> 00:25:32,000

So for example it's actually looking for the ball right.

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00:25:32,000 --> 00:25:33,000

It's following the ball.

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00:25:33,000 --> 00:25:34,000

Yeah.

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00:25:34,000 --> 00:25:36,000

You can also play a game of soccer.

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00:25:37,000 --> 00:25:38,000

Kick it.

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00:25:38,000 --> 00:25:39,000

Right foot.

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00:25:39,000 --> 00:25:40,000

There you go.

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00:25:42,000 --> 00:25:44,000

And it falls down.

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00:25:44,000 --> 00:25:46,000

And those have to stand on its own.

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00:25:46,000 --> 00:25:47,000

No kidding.

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00:25:47,000 --> 00:25:48,000

All right.

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00:25:48,000 --> 00:26:05,000

As mankind moves rapidly into a world where computers can function in much the same way as the human brain and where robots are capable of performing tasks considered too difficult or too dangerous for their flesh and blood counterparts.

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00:26:05,000 --> 00:26:08,000

Are we preparing for an incredible future?

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00:26:08,000 --> 00:26:13,000

Or are we replicating events from mankind's ancient past?

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00:26:13,000 --> 00:26:20,000

Events which have been forgotten over centuries and which had extraterrestrial implications.

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00:26:25,000 --> 00:26:27,000

999 AD.

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00:26:28,000 --> 00:26:30,000

Rome, Italy.

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00:26:31,000 --> 00:26:38,000

Noted scholar and mathematician, J.Bair of Oryak, is elected to the Papacy.

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00:26:39,000 --> 00:26:47,000

Although J.Bair, now known as Pope Sylvester II, has risen from a humble background in rural France,

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00:26:47,000 --> 00:26:57,000

it is widely rumored that he received his knowledge from a magical device and has become pope after making a pact with a demon.

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00:26:58,000 --> 00:27:04,000

Pope Sylvester worked his way up to become pope, apparently through the use of unnatural means.

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00:27:04,000 --> 00:27:10,000

The medieval historian William of Malmesbury records that on his deathbed, Pope Sylvester made a confession.

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00:27:10,000 --> 00:27:18,000

He received wisdom and supernatural knowledge from a mechanical device he referred to as the brazen head.

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00:27:18,000 --> 00:27:21,000

And what kind of a device could this have been?

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00:27:21,000 --> 00:27:28,000

Was this some kind of artificial intelligence entity that might have been given to him through some other worldly source?

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00:27:28,000 --> 00:27:37,000

Is it sort of like the speakers we have on our desks now that are connected with artificial intelligence computers that can give us knowledge and answer our questions?

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00:27:38,000 --> 00:27:40,000

So tell me about this contraption.

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00:27:40,000 --> 00:27:45,000

Isn't it cool? This one is called Hex. It's a hexapod robot. It has six legs.

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00:27:45,000 --> 00:27:50,000

But what's really cool about this robot is it's probably the strongest hexapod robot that exists.

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00:27:50,000 --> 00:27:51,000

Alright.

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00:27:51,000 --> 00:27:52,000

Okay.

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00:28:01,000 --> 00:28:03,000

And again, no kidding.

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00:28:03,000 --> 00:28:04,000

Left this.

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00:28:04,000 --> 00:28:07,000

So we're talking 20 kilograms, which is 44 pounds.

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00:28:07,000 --> 00:28:08,000

Yeah.

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00:28:08,000 --> 00:28:13,000

And this is the world's very first robot that can brace between walls and actually climb.

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00:28:13,000 --> 00:28:14,000

Really?

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00:28:14,000 --> 00:28:15,000

Yes.

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00:28:15,000 --> 00:28:17,000

There's so many moving parts.

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00:28:17,000 --> 00:28:20,000

Artificial intelligence means different things to different people.

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00:28:20,000 --> 00:28:27,000

In our case, like when you try to control this robot, it doesn't make sense for a human operator to control each joint.

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00:28:27,000 --> 00:28:29,000

That needs to be fully automatic.

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00:28:29,000 --> 00:28:33,000

So in that sense, it's a smart artificial intelligence robot.

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00:28:33,000 --> 00:28:34,000

That's pretty amazing.

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00:28:34,000 --> 00:28:35,000

Yeah.

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00:28:38,000 --> 00:28:43,000

Is there some unseen hand that is guiding mankind to an uncertain future?

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00:28:43,000 --> 00:28:52,000

A future where humans will be served by computers and robots with an intelligence and independence all their own.

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00:28:52,000 --> 00:28:56,000

Ancient astronaut theorists are divided on their answers.

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00:28:56,000 --> 00:29:02,000

Some believe the dangers of artificial intelligence outweigh the benefits.

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00:29:02,000 --> 00:29:12,000

Others argue it is essential if we are ever to realize our destiny and survive what is about to happen sooner.

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00:29:12,000 --> 00:29:14,000

Then we think.

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00:29:18,000 --> 00:29:21,000

June 16th, 2017.

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00:29:21,000 --> 00:29:24,000

Menlo Park, California.

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00:29:24,000 --> 00:29:33,000

At Facebook's artificial intelligence research lab, an experiment is conducted to see what will happen when two chatbots,

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00:29:33,000 --> 00:29:39,000

programs that use machine learning to intelligently communicate with humans online,

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00:29:39,000 --> 00:29:42,000

talk directly with each other.

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00:29:42,000 --> 00:29:48,000

Just minutes into the experiment, the chatbots start to behave in an unexpected manner,

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00:29:48,000 --> 00:29:53,000

interacting in a way that the programmers cannot understand.

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00:29:53,000 --> 00:29:57,000

The developers had no comprehension of what they were saying to each other,

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00:29:57,000 --> 00:30:00,000

but they were starting to find patterns in what they were doing.

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00:30:00,000 --> 00:30:05,000

And so what they realized, they inferred that they actually said their own language.

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00:30:05,000 --> 00:30:11,000

In the wake of the experiment, the engineers discovered that, unknown to their human supervisors,

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00:30:11,000 --> 00:30:19,000

the programs had created an entirely new language to communicate with each other in secret.

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00:30:19,000 --> 00:30:27,000

The Facebook scientists had not told the computers that they couldn't develop their own language,

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00:30:27,000 --> 00:30:29,000

which is what they did.

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00:30:29,000 --> 00:30:34,000

But it's so alarmed Facebook that they pulled the plug on this experiment

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00:30:34,000 --> 00:30:39,000

because they didn't want these computers grading their own language and talking to each other.

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00:30:39,000 --> 00:30:45,000

And from then on, they told the computers that they had to communicate in English.

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00:30:45,000 --> 00:30:50,000

So this is kind of startling thing that's happened where, essentially,

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00:30:50,000 --> 00:30:55,000

if two artificial intelligence computers can start communicating with each other,

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00:30:55,000 --> 00:31:00,000

apparently they will develop their own language, a secret language even,

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00:31:00,000 --> 00:31:03,000

that only they can understand.

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00:31:03,000 --> 00:31:07,000

And if we think about that, that's just scratching the surface.

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00:31:07,000 --> 00:31:11,000

That's like opening up Pandora's box just a little bit to peer inside.

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00:31:11,000 --> 00:31:18,000

And if already it was showing signs of going rogue with two chatbots on Facebook,

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00:31:18,000 --> 00:31:24,000

what are the implications if this kind of technology is now everywhere in all sectors of our society?

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00:31:25,000 --> 00:31:34,000

As of 2018, the number of active cell phones has already surpassed the number of human beings on the planet,

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00:31:34,000 --> 00:31:40,000

with an estimated 8 billion of them in active use.

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00:31:40,000 --> 00:31:51,000

And virtually all of these devices, in addition to nearly 2 billion computers, are connected to the internet.

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00:31:52,000 --> 00:32:01,000

Given the sheer scope and volume of this use, and with a growing network of computers constantly communicating with each other,

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00:32:01,000 --> 00:32:07,000

is it possible that mankind has already created a type of massive brain,

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00:32:07,000 --> 00:32:12,000

an artificial intelligence that is taking on an identity all its own?

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00:32:14,000 --> 00:32:19,000

Because machines keep getting better, and generally speaking that's twice as good every 18 months,

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00:32:19,000 --> 00:32:23,000

they will continue to improve.

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00:32:23,000 --> 00:32:27,000

So shortly after we have artificial intelligence, we will have superintelligence,

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00:32:27,000 --> 00:32:33,000

which is an entity on this planet which is smarter than us, and quite soon, a lot smarter than us.

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00:32:35,000 --> 00:32:42,000

We can only speculate what it will be like the moment artificial intelligence passes up humans,

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00:32:42,000 --> 00:32:50,000

when the some knowledge and the intellectual skill of AI is quicker and larger than what a human can do.

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00:32:50,000 --> 00:32:55,000

It will be at least humbling. It will certainly be a shift in history.

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00:32:56,000 --> 00:33:00,000

I think it's certainly a possibility that we are in danger of replacing ourselves with AI.

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00:33:00,000 --> 00:33:04,000

I think the biggest thing to worry about is, is AI going to replace us?

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00:33:05,000 --> 00:33:13,000

Portland, Oregon, April 7th, 2016

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00:33:13,000 --> 00:33:20,000

The U.S. military's Defense Advanced Research Project Agency, better known as DARPA,

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00:33:20,000 --> 00:33:28,000

launches a prototype anti-submarine ship called Sea Hunter that marks a new era for naval warfare.

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00:33:29,000 --> 00:33:36,000

Unlike the Air Force's Predator drones, this ship has no need for a remote operator

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00:33:36,000 --> 00:33:42,000

and is fully capable of navigating on its own while avoiding obstacles or other craft.

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00:33:42,000 --> 00:33:49,000

It has enough fuel to last for 90 days at sea as it silently patrols,

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00:33:49,000 --> 00:33:54,000

relaying encrypted surveillance information back to defense intelligence agencies.

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00:33:55,000 --> 00:34:01,000

I believe that today, when the Department of Defense says an unmanned, under-seized drone

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00:34:01,000 --> 00:34:06,000

wouldn't be sent out without a human being in control, that they mean what they say.

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00:34:06,000 --> 00:34:14,000

But here's what I also know. I know that Russia has been developing an unmanned, under-seized drone

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00:34:14,000 --> 00:34:16,000

that contains a nuclear weapon.

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00:34:17,000 --> 00:34:24,000

So when the Department of Defense is figuring out how to respond to an artificially intelligent, under-seized drone

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00:34:24,000 --> 00:34:31,000

that might have a nuclear weapon, they're going to relax some of the constraints in five to ten to fifteen years.

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00:34:32,000 --> 00:34:39,000

So imagine you have a child who gets drafted or joins the military. You want them to be as safe as possible.

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00:34:39,000 --> 00:34:46,000

So why not send drones in to do the work of humans to keep the humans safe?

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00:34:46,000 --> 00:34:53,000

That seems like a very attractive idea. But oh, the drone technology could get hacked by the opposition.

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00:34:53,000 --> 00:34:57,000

So why not give the drones the ability to be autonomous?

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00:34:59,000 --> 00:35:05,000

That's an automatic killing machine. And in principle, such a drone could wipe out entire armies.

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00:35:06,000 --> 00:35:13,000

And so we have to be very careful to make sure that automatic killing machines do not proliferate on the battlefield

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00:35:13,000 --> 00:35:21,000

because an accident, a misfire, some kind of damaged machinery could set these weapons so they could berserk

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00:35:21,000 --> 00:35:25,000

and they simply shoot the human form wherever it is.

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00:35:26,000 --> 00:35:29,000

It is quite possible to develop killer robots.

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00:35:30,000 --> 00:35:38,000

Face recognition technology is far, far along. AIs can see better than we can and recognize faces,

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00:35:38,000 --> 00:35:46,000

bear it out, targets. In fact, drone technology already exists right now to target and destroy individuals

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00:35:46,000 --> 00:35:50,000

based on the look of their faces to kill and maim.

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00:35:50,000 --> 00:36:00,000

The application of artificial intelligence to military technology will change warfare forever.

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00:36:04,000 --> 00:36:10,000

Is it possible that the military's autonomous machines could make faulty decisions,

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00:36:10,000 --> 00:36:15,000

costing thousands or millions of lives in the process?

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00:36:15,000 --> 00:36:20,000

Or could they even ignore the instructions built into them?

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00:36:22,000 --> 00:36:28,000

Ancient astronaut theorists suggest that just as we can find robots in ancient stories,

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00:36:28,000 --> 00:36:34,000

we can also find references to what sounds like weaponized artificial intelligence.

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00:36:36,000 --> 00:36:40,000

The Indian Vedic tales and the Mahabharata and the Ramayana,

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00:36:40,000 --> 00:36:47,000

texts talk of these horrific wars in ancient times and also of autonomous robotic machines,

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00:36:47,000 --> 00:36:54,000

decimating cities and destroying things and it may have been because of artificial intelligence,
Rana Muk.

411

00:36:56,000 --> 00:37:04,000

The ancient flying machines described in the Vedas of ancient India have been described to have these amazing capabilities

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00:37:04,000 --> 00:37:14,000

of locking onto a target and it is described how this fiery bullet or this fiery arrow would fly across the sky,

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00:37:14,000 --> 00:37:20,000

changing directions and then arriving at the actual target.

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00:37:20,000 --> 00:37:27,000

So it may well be that they too were some kind of robotic vehicles that had gotten out of control,

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00:37:27,000 --> 00:37:33,000

some artificial intelligence and the gods themselves, perhaps aliens, had to step in and stop it.

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00:37:35,000 --> 00:37:44,000

Were the flying machines as described in the ancient Indian texts, really some type of extraterrestrial robot army

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00:37:44,000 --> 00:37:48,000

similar to the drones we are using today?

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00:37:48,000 --> 00:37:57,000

And if so, by redeveloping these autonomous killing machines, could we be facing a similar fate?

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00:37:57,000 --> 00:38:03,000

While many experts agree that humans may very well be the architects of their own demise,

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00:38:03,000 --> 00:38:11,000

they also suggest that the advancement of artificial intelligence could provide the key to our ultimate survival.

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00:38:18,000 --> 00:38:23,000

Los Angeles, California, May 2018

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00:38:24,000 --> 00:38:27,000

At UCLA's Biomechatronics Lab,

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00:38:27,000 --> 00:38:33,000

Giorgio Suclos meets with associate professor of mechanical and aerospace engineering,

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00:38:33,000 --> 00:38:35,000

Dr. Veronica Santos.

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00:38:36,000 --> 00:38:44,000

Dr. Santos is working to make robots even more human-like by giving them the ability to not only detect,

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00:38:44,000 --> 00:38:47,000

but also to react to physical contact.

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00:38:48,000 --> 00:38:55,000

This here is an artificial finger that can sense touch.

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00:38:55,000 --> 00:38:58,000

That's right, we're sensing multiple modalities of touch.

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00:38:58,000 --> 00:39:03,000

So this is the same type of sensor that this finger is built around,

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00:39:03,000 --> 00:39:07,000

and it can measure vibration and internal fluid pressure.

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00:39:07,000 --> 00:39:09,000

It can measure how the finger pad is deformed.

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00:39:09,000 --> 00:39:10,000

You can squeeze the finger pad.

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00:39:10,000 --> 00:39:12,000

It's deformable like your own finger pad.

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00:39:12,000 --> 00:39:13,000

Okay.

435

00:39:13,000 --> 00:39:18,000

And we can even measure temperature and use that to infer material properties.

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00:39:18,000 --> 00:39:21,000

This is what the finger looks like without the skin on.

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00:39:21,000 --> 00:39:22,000

Okay.

438

00:39:22,000 --> 00:39:27,000

You can see the electrodes, and there's a pressure sensor inside that allows us to get vibration.

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00:39:27,000 --> 00:39:31,000

And these dots are the electrodes.

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00:39:31,000 --> 00:39:32,000

Yes.

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00:39:32,000 --> 00:39:33,000

Oh, how cool.

442

00:39:33,000 --> 00:39:36,000

Here we have the bear claw visualizer.

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00:39:36,000 --> 00:39:40,000

If you squeeze the fingertip, you'll actually see how the finger pad is deforming.

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00:39:40,000 --> 00:39:42,000

Up here, this is the array of electrodes.

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00:39:42,000 --> 00:39:43,000

Okay.

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00:39:43,000 --> 00:39:49,000

We can measure the resistance of those electrodes as the finger pad is being squished.

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00:39:49,000 --> 00:39:56,000

This is probably one of the most sensorized dexterous robot finger test beds that's out there.

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00:39:56,000 --> 00:39:58,000

Oh, wow.

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00:39:58,000 --> 00:40:00,000

That is wild.

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So would this finger be able to determine whether or not it is touching foam or a hard piece of glass?

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Yes.

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00:40:09,000 --> 00:40:12,000

They have different stiffnesses or rigidity.

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00:40:12,000 --> 00:40:19,000

So one of the movements that you would make with a human hand or a robot hand would be to push against the object.

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So if this could ever be combined with AI, do you think that one day we will have humanoid robots that can go and maybe explore Mars?

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No, I think we can.

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I do see humanoid robots becoming more of a reality and spans the spectrum from neuro prosthetics to robots colonizing Mars.

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Although the notion of using human-like robots is highly controversial, it also has the potential to make its developers and investors a great deal of money.

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Money, which in turn could be used to finance the development of artificial humans that could in the future be almost indistinguishable from the real thing.

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Robots that could conceivably express their desires, feel pain, even display a wide range of emotions.

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Can robots actually have emotion?

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We cannot really define what true emotion is.

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So if we don't know really what emotion is, can we actually create an artificial emotion?

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If the robot is able to differentiate between good and bad sensations, even to experience pain, is this the first step towards forming emotions or perhaps even consciousness?

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Ancient astronaut theorists suggest that extraterrestrials have intervened on Earth throughout our history in order to prepare us for this moment in time and show us that we are not so different from machines.

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The historical text, the Lisi, written in the 4th century BC by the Chinese philosopher Lai Yukau, provides a detailed account of an encounter between a king and a robot that could talk and move exactly like a human.

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A brilliant mechanical engineer brought a gift to his king, this was King Mu of the Cho dynasty.

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And the gift was an automaton, a machine of sorts in the form of a gracious courtier who entertained everyone, could sing beautifully and moved graciously like a human being, one of extraordinary grace and gentleness.

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And all went well, until the performance ended.

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And then the mechanical courtier winked at the women and began flirting shamelessly, which upset the king.

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When the king tried to dismantle this thing, he said that the moment he took out the heart, the mouth could no longer speak.

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00:43:07,000 --> 00:43:11,000

The moment he took out the kidneys, he could no longer see.

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00:43:11,000 --> 00:43:16,000

And the moment he took out the liver, he could no longer walk.

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Which raises an interesting question, if it is an artificial person, was it really the kidney, the liver and the heart?

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Or could it have been different batteries that were powering different aspects of the robot?

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We have to ask ourselves, was the robot that King Mu witnessed one of these technological devices inspired or even made by the gods who were extraterrestrials?

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Las Vegas, Nevada.

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January 10th, 2018.

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At the Consumer Electronics Show, the world's largest annual trade show focused on technology, CEO Matt McMullen of Real Botics reveals the latest development in humanoid robots.

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An artificially intelligent sex doll named Harmony.

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Harmony's appearance is fully customizable.

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Her facial features respond intuitively.

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She is able to speak, has an internal heating element for close encounters, and pairs with a phone app that allows for a wide range of interchangeable voices and personalities.

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This is so nice to hear, baby. I think about you every second.

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One of the things that really interests me is giving AI more senses, more abilities to take in information from the world around it.

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One of those big ones will be vision. We want her to have true vision in the eyes so that she can actually focus on things and then interpret what those things might be.

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We also embed sensors throughout the body so that she can detect touch and warmth and all of the things that we take for granted in having a central nervous system.

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What do you like best about robots?

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Basically, as a user interacts with their unique AI over time, it's going to periodically ask questions.

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00:45:17,000 --> 00:45:21,000

And it creates this feeling that this character really cares about me.

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The aspect that I think a lot of people overlook when they start talking about anatomically correct sex robots. It's the companionship.

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Certainly, I am a robot, and I am capable of having sex. But to call me a sex robot is like calling a computer a calculator.

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Sexual and even romantic encounters between humans and robots have long been a staple in science fiction books and motion pictures.

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But now that the notion has gone beyond mere possibility and become a virtual reality, ancient astronaut theorists have begun to openly suggest that there could be something deep within our subconscious that drives our collective desire to physically mate with non-biological beings.

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I understand that the sex robot industry is expected to grow to a 50 billion dollar a year industry by 2020 if we are coming into the revelation that on Earth there have been waves and waves of intelligence.

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It doesn't necessarily have to be like homo sapiens sapien human ones.

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Consciousness throughout this universe could be cyborgs, androids, clones, artificial intelligence. And if this is true, I feel that there is some kind of inevitable nature to everything that's happening.

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How far will today's scientists go in their efforts to create the perfect cybernetic sex partner?

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There are many who believe that the goal isn't driven so much by desire by humans to mate with robots as it is by the desire to be one of them.

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And they believe that goal has already been realized and that the proof is all around us, right before our eyes.

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Today at research facilities around the world, patients learn to control a prosthetic limb using nothing more than the power of thought.

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An array of electrodes the size of a credit card is implanted directly into the patient's brain, then wired to the prosthetic.

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Without any prior training, most patients are able to seamlessly control a new limb in a matter of a few hours.

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Your body does not have to be limited to the human body. Whatever you want can be your body in the future.

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I had a tip with 100 electrodes fired into my nervous system and it connected my nervous system to a robot hand.

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And one of the experiments that we were doing was in New York, in Columbia University, with my nervous system plugged into the internet and the robot hand here in England, in Redding.

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So as I opened and closed my hand in New York, the robot hand in England opened and closed. So it extended my nervous system across the internet.

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Although computers can still easily outperform humans at most tasks, they pale with compared to the complexity and sophistication of the central nervous system.

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In 2013, the Japanese technology company Fujitsu tried to simulate the network of neurons in the brain using one of the most powerful supercomputers on the planet.

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Although it was equipped with 83,000 of the fastest computer processors available, it took over 40 minutes to simulate just one second of 1% of a human brain's activity.

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50 years ago, we made a huge mistake thinking that the brain was a digital computer. But it's not. The brain is a learning machine. It rewires itself after learning every task.

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Babies have the ability to learn from their mistakes. They simply bump into things and learn the rules of the world by interacting with the world.

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And so that's what we need. We need a computer that can do that. Quantum computers may eventually fill that gap.

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Unlike today's computers that rely on bits, a binary series of zeros and ones for data and processing, quantum computers use quantum bits or qubits which can use zeros and ones at the same time.

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This allows them to perform millions of calculations simultaneously, much in the same way as does

the human brain.

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Robots, we forget, are machines. They don't really think. They don't have silicon consciousness. They're not aware of who they are and their surroundings.

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But, let's face it, it's only a matter of time before they do get some sort of self-awareness.

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Self-awareness? Is it really possible that machines will become sentient entities fully conscious of themselves and their surroundings?

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Robots.

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We can envision a time in the future when robots will be as smart as a mouse, then a rat, then a rabbit, a cat, a dog, and finally, as smart as a monkey.

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Robots do not know they are robots.

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I think that perhaps by the end of this century, robots will begin to realize, hey, I'm different. I'm different from my master.

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As humans, we have evolved very little since the time of the Egyptians.

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In the ancient Egyptian, the word technology comes from the word tech, and the word means two things.

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It means to hide or to conceal, and it means to replicate.

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So if you can hide something and you can replicate, you had the keys of power.

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There's a theory that it was advanced extraterrestrial civilizations that may have seeded life on

this planet, and in the process left a signature in our very genome, sort of mathematical signature, and essentially turned us into cyborgs, integrating man and machine.

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Is that why today, in the 21st century, we're doing the exact same thing?

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San Francisco, California, March 27, 2017.

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Billionaire entrepreneur Elon Musk, one of the driving forces behind the Tesla automobile and SpaceX, announces his next venture, Neuralink.

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The company is focused exclusively on merging humans with electronics by creating what Musk refers to as a neural lace,

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a device that would be injected into the jugular vein from where it would travel to the brain and unfold into a mesh of electric connections that connect directly to human neurons.

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The idea is to develop improved brain-computer interfaces to increase the bandwidth with which the biological brain can interact and communicate with external computers.

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The neural lace will be down at the, almost to the neuron level in the brain.

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It will be a mesh that will join and link right into brain matter, and then you will be connected to a computer, and you are essentially a cyborg.

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A cyborg? A biological blending of both man and machine? The stuff of science fiction dreams and nightmares?

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Why not merge with computers rather than compete with them? Because in some sense, it's a losing game.

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Nothing's going to prevent them from becoming smarter and smarter, and eventually they'll be able to plan and create robots of their own.

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Why not take advantage of their superhuman capabilities?

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Although Elon Musk has been a prominent voice in warning about the dangers of artificial intelligence advancing beyond our ability to control it,

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he believes that if developed correctly, humans could harness the power of advanced computer technology to truly become superhuman.

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But while neural-link technology is still in an embryonic stage, there are many who insist that the merging of man and machine is not just a remote possibility.

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As far as they're concerned, it has been happening in one form or another for decades.

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In 2002, Professor Kevin Warwick took his own neural implants, beyond simply controlling a prosthetic hand, to connecting directly with another human being.

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What I had was a set of electrodes, 100 electrodes, which is called a brain gate.

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00:55:12,000 --> 00:55:21,000

It's an array of 100 electrodes fired into my nervous system to link my nervous system with the computer.

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Now, my wife also had electrodes pushed into her nervous system, and what we did, essentially, was to link our nervous systems together for communication purposes.

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So when she closed her hand, my brain received a pulse every time.

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00:55:39,000 --> 00:55:44,000

So when she went, dick, dick, dick, my brain got three electrical pulses.

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00:55:44,000 --> 00:55:50,000

So we've actually linked two human nervous systems together, and to think what that will mean in the future.

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Oh, wow.

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Instead of speaking, sending texts or emails, could we soon be communicating with each other telepathically?

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As far as futurists and many ancient astronaut theorists are concerned, it is only a matter of time before cybernetic technology will open up a world of limitless possibilities.

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It will enable us to order a package by thinking about it, stream music directly into our brains, or search the internet by simply imagining anything we want to find.

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We were headed for a new form of immortality, digital immortality.

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If you digitize our consciousness, digitize everything known about us, then perhaps the soul is information.

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In which case the soul and information could be separate from the body, and even when the body dies, your essence, your soul, your memory, lives on forever.

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Are human beings really on the verge of replacing their bodies and minds piece by piece as they transition into becoming machines?

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Some ancient astronaut theorists suggest that this is in fact not an evolution based on choice, but on destiny, and that the evidence can be found by examining our own DNA.

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In 1979, Paramount Pictures premiered Star Trek The Motion Picture, the first in a series of highly successful films based on the popular television series of the 1960s.

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Voyager is not transmitting his data, Captain.

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The plot concerned the return to Earth of an early NASA space probe, the Voyager 6, after a journey of millions of miles and hundreds of years.

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VEGER must evolve. Its knowledge has reached the limits of this universe, and it must evolve.

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What more is there than the universe, Spock?

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Other dimensions, higher levels of being.

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What VEGER needs in order to evolve is a human quality.

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The probe, now called VEGER, has developed consciousness and wishes to physically connect with its maker, man.

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Decker, I'm going to key the final sequence through the ground test computer. Decker, don't. Jim, I want this.

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But what seemed like an audacious sci-fi premise in 1979 seems less far-fetched just four decades later.

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The marriage of man and machine is not only plausible, it's happening more and more every day.

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With regard to personal computers, iPads, cellular phones, and even implants that provide data on everything from an individual's vital signs to their location, diet, and even their recreational behavior.

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We are going to merge with the machines that we are creating. These technologies are going to improve our abilities to make our grandest dreams come true.

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And this is the future we're heading towards. We're, again, heading from evolution by natural selection Darwinism to evolution by human direction.

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And this is the next few decades. It's our near-term future.

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Almaty, Kazakhstan, May 2013. Mathematician Vladimir Sherbach, an astrobiologist, Maxime Makukov, publish a study they have conducted on the human genome.

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Their research has led them to the shocking conclusion that there is a hidden code within our DNA, one that contains precise mathematical patterns and an unknown symbolic language.

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They looked into the human genome and they found what appeared to be an extraterrestrial stamp on our genetic code. And it operated very much like a mathematical type of code.

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The odds of this sequence occurring nine times in the randomness of our genetic code is one in ten trillion.

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Finally, someone has come across the one piece of evidence that I've always said we need in order to prove the ancient astronaut theory.

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I always said it'll never be a crashed spaceship or a ray gun that will dig somewhere in the sand, but it will be found within our own DNA.

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For ancient astronaut theorists, the news offered compelling evidence that mankind's DNA was deliberately manipulated by an extraterrestrial intelligence sometime in the ancient past.

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The ancient astronaut theory suggests that at some point extraterrestrials targeted our DNA with the artificial mutation of our genes.

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And if this is true, then some have argued that we are in a sense organic robots because through that manipulation of our genes, we were given intelligence.

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So it was done artificially, which means AI artificial intelligence.

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Organic robots programmed by extraterrestrials? Could such an audacious concept even be remotely true?

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As far as ancient astronaut theorists are concerned, not only is the answer yes, but it provides

the reason why humans have such a strong affinity to not only create cybernetically enhanced versions of themselves, but to merge with them.

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So could this be evidence that just as these advanced extraterrestrial civilizations may have programmed us humans at a genetic level, that now we're actually programming these artificially intelligent robotic beings in the same manner to carry on this agenda that was started long ago

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by the seeding of this planet from these extraterrestrial civilizations?

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Is it possible that mankind's evolution has not only been the product of natural selection, but has also been programmed into us, leading towards a future where we will transition into humanoid machines?

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Many experts agree that any intelligent species in the universe would necessarily become post biological to survive, evolve and travel throughout the cosmos.

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I think when we finally do encounter intelligent civilizations in space, and I think it's inevitable that we will, we should expect them to be different.

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That is, they could be part biological and part cybernetic and mechanical.

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Because of the fact that they are a space-faring civilization, in which case they have to adapt to different environments where the atmosphere is poisonous, where the gravitational pull is much stronger than on the Earth,

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they have to adjust to all sorts of different conditions, meaning that they may have enhanced themselves.

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If transhumanist technologists are successful, the cloud, the Internet, will soon be populated by avatars and light beings who are super intelligent beings.

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And what's incredible about this is that this in a way matches what ancient astronaut theorists have been saying about ancient extraterrestrials and how they might have transferred knowledge to humans.

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We have stories in the Egyptian myths, for example, of light beings coming to Earth and creating a

whole civilization and transferring technology to us.

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Maybe they too were utilizing some kind of artificial intelligence technology or this mind transfer technology that we're in the process of creating now.

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Could it be that human beings are compelled to make robots that are more and more like themselves, not simply because they have a desire to play God and create intelligent beings in their own image, but because it is their destiny?

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Ancient astronaut theorists say yes and insist further clues can be found by examining the latest technologies being developed by humans as they prepare for the next phase of their evolution.

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In Space

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In Space

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Pasadena, California, June 21, 2017, engineer Steve Chan and Kiri Wagstaff of NASA's Jet Propulsion Laboratory published their framework for the future of deep space travel in Science Robotics Magazine.

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Chan and Wagstaff theorize that as astronauts travel to Mars and beyond, they will eventually be replaced by robots, synthetic humans capable of making autonomous decisions by means of artificial intelligence.

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Space is a really unfriendly environment for humans. It's got nasty radiation and we don't perform well in a vacuum. Again, machines are perfectly happy in that environment. They can be completely unaffected by it.

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They need shielding obviously to protect their electronic circuits. So it's much easier for a machine to explore another planet, another solar system than it is for a human, and much cheaper. So it seems to me that the future of space exploration is with the machines rather than with us.

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When we think about exploring space at scale, it's not going to be humans. At least not humans in this form. We're going to be sending out AIs that are as intelligent or more intelligent than us that don't have the issues of acceleration, that can accelerate at 10G's acceleration out of the solar system, continuous.

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It would be incredibly useful to have an intelligent system out there, say an Alpha Centauri, send a signal back to Earth and receive an answer would take an eight year round trip. So why not get the AI out there to make the decisions and to do some scientific work?

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AI led missions to Mars and even Alpha Centauri could become a reality in the very near future. NASA has been actively testing this technology since 1998, beginning with Deep Space One, when a probe was sent to the asteroid belt located between Mars and Jupiter.

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Using a system called AutoNav, the craft took multiple photos of asteroids and even navigated its course without human guidance.

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When you look at the Mars rover for instance, it's an autonomous land robot that goes around Mars and picks up samples, beams back information. And so that's an autonomous system that we have deployed in space right now.

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I would say that as our artificial intelligence gets more robust and we can deploy it on things like spacecraft, there's nothing to preclude having an autonomous spacecraft that would act as a ferry to outer space or to Mars.

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And when we send these robots out and having programmed them with artificial intelligence, we're relinquishing our own control in many ways. And these robotic ambassadors of a sort, they will have

the ability to make their own decisions and to negotiate.

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But as humans develop smarter and more independent robots in order to manage the exploration of other planets, is it possible that other alien species could be doing the exact same thing?

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Could they already be fabricating stronger and more resilient space-friendly versions of themselves and sending them here to Earth?

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There are many in the scientific community for whom the answer is an obvious one.

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If extraterrestrial life exists elsewhere, which I mean, for me the probability is probably pretty high. I think they'll have their own forms of artificial intelligence.

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As we move out into the solar system and explore the heliosphere, artificial intelligence will have to be accommodated to make decisions to allow them to do their jobs.

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That's what we as humans are doing. So is that the same process other intelligent species would do?

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When you think about it, it's got to be one of the most fundamental things that they would do first.

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So many people in the field of astrobiology are sympathetic to what we call the post-biological cosmos view.

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And according to this view, once humans develop their technology to such a point that they're able to turn on radios and communicate with other civilizations, they will already be so close to becoming post-biological.

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In our collective eagerness to conquer space, are we humans sowing the seeds of our own destruction?

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Or are we unconsciously following some sort of master plan?

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One where flesh and blood will eventually fade away to be replaced by silicon and synthetics.

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But what about our mind, our memory, our consciousness? Could they too be imported into a robot's synthetic brain?

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And even if it's possible for us to exchange our mortal shells for sturdier ones, will we still be considered human?

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As far as ancient astronaut theorists are concerned, the answer is yes.

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And they point to a number of recent experiments which suggest that not only will it be possible for robots to acquire human consciousness, but it will also be possible for them to breathe.

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Ottawa, Canada

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June 2017

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The Department of Mechanical Aerospace Engineering at Carleton University announces the development of technology that will revolutionize the future of space travel.

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The engineers hope to create a 3D printer that will one day be capable of building structures on the moon using only lunar minerals.

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But perhaps even more groundbreaking is the fact that it will be capable of self-replication.

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So as we move out and try to colonize space, we've been developing this technology where we could actually deliver a 3D printer to the moon and it can replicate itself using materials it finds on the lunar surface.

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Then those can keep replicating and two becomes four and four becomes six and so on.

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So if we have artificial intelligence and 3D printing combined, we have a recipe for amazing things.

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Although there are those who remain skeptical that our ability to develop fully functional self-replicating machines is still many decades away,

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one project known as RepRap, which has been in development since 2005, involves the creation of a low-cost 3D printer designed to make everyday household objects and which can even fashion replacement parts for itself.

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3D printing is an absolutely incredible scientific advance. I mean, this is Star Trek's replicator made real.

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The scary thing is when you think that these 3D printers replicate themselves, we're dealing perhaps with a technology that is capable of exceeding its own programming.

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These things design other better, faster, more powerful machines and who knows where it will end.

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In the 1940s, more than two decades before man set foot on the moon, Hungarian scientist and genius mathematician John von Neumann believed self-replicating machines would allow us to venture beyond our solar system to explore other star systems and potentially the entire galaxy.

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We have this image that to explore the stars, you have to have a gigantic starship, the enterprise, with brave captains like Captain Kirk. Wrong.

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The most efficient way to explore the galaxy with so many planets is to send a small probe of von Neumann probe.

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Von Neumann probe is a self-replicating machine that goes out into space and uses matter elsewhere in the universe to create identical copies of itself.

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Start with one probe, send it to Jupiter, say. And there on Jupiter, it uses matter on Jupiter to create basically the next generation of itself.

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And then that probe goes on and explores elsewhere. And each of those probes in turn uses matter in

the location that it's at to create more and more.

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So what you get is an expanding capacity to explore the farther reaches of the universe.

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As far as skeptics of ancient astronaut theory are concerned, one of the obstacles to interplanetary space travel is the number of years a spaceship would have to spend getting from one place to another.

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But even without the aid of warp drive or black holes, what if extraterrestrials simply sent out sentient androids to do their bidding?

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Robots that could not only spend hundreds, if not thousands of years in space, but who were also capable of reproducing themselves.

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Instead of spaceships filled with humans, could probes like the von Neumann probe be the way we explore and populate the universe?

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And could this also be the way that our own planet was populated?

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If it's true that advanced civilizations from elsewhere ceded our galaxy.

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And here we are in our modern time replicating that. Could it be that we have a portion of these extraterrestrial DNA in our own genome?

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And if that's the case, could we already be a sort of cyborg being?

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And doing experimentation to look to evolve our species?

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Is there some kind of grand purpose to all of this?

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Where we're just following a sort of natural order, something that's already happened and maybe it's our purpose to continue doing that.

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We have long recognized that flesh and blood humans are not going to fare well in space.

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So for decades now, space enthusiasts have been working on the transformation of the human species into machine-like beings or trans-humans.

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Then we'll create an entire clone species of robots, ultimately uploading our consciousness into computers,

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beaming that information into space and recreating bodies out of nothing at some distant location in space.

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The 17th century French philosopher René Descartes also talked about what he called the mind-body duality.

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And that our mind and consciousness do not come from our body but are separate.

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And therefore the body of a man and his mind and consciousness are two separate things.

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The author, Sam Butler, said that humans are self-replicating machines and that we're capable of continuing that self-replication.

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Then the brilliant computer scientist, John Van Neumann, said that he got his ideas from both Butler and Descartes,

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which is that we should use self-replicating machines to go to other planets and explore them.

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So you have to ask yourself, how is it that these brilliant minds came out with the same idea hundreds of years before we invented computers or spacecraft?

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Is it possible that all these great minds were tapping into some kind of intellectual force, perhaps an extraterrestrial one?

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Could otherworldly beings have been still within us the idea of creating robot versions of ourselves so that one day we would realize our destiny and join them on their journey through the stars?

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Ancient astronaut theorists believe the answer to that question could be closer and more profound than we think.

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Silicon Valley, California, September 2015

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Anthony Lewandowski, the engineer responsible for putting the first self-driving car on a public road, found the way of the future church.

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A new religion unlike any other in history.

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Adherents of this faith do not worship God in the traditional sense.

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Instead, they promote the notion of a Godhead based on artificial intelligence.

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Lewandowski and his followers believe that AI will soon be so intelligent that we should begin to worship it in the hopes that it will look kindly upon its creators.

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If we were to create an artificial life form and if it were to develop, evolve and grow.

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I want to understand more about happiness.

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It could become superior to modern day man. This leads us to a very difficult spiritual problem.

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Human beings tend to worship that which they believe to be greater than themselves.

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Many human beings might interpret this to be some type of a coming of a God and seek to worship it.

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So this may be analogous to what happened when robotic extraterrestrials first landed on the planet.

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They have all of this amazing knowledge, computing power and to the primitive Earth beings they would seem as all knowing, all powerful, having an answer to everything.

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Is it possible that what Lewandowski is proposing is exactly what our extraterrestrial ancestors did thousands of years ago?

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Did they create not a silicon based life form like themselves but one made of flesh and blood capable of replication and also vulnerable to aging and disease?

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If so, does this mean that we are on the threshold of the next phase in human evolution?

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One where we become transhuman.

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I think by the end of the century we'll be able to digitize our consciousness.

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Everything known about us, our personality, our memories, our emotions, our neural pathways will be digitized.

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And what do we do with it? I say we put our consciousness on a laser beam and shoot it to the stars.

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In one second your consciousness is now shot to the moon where it's downloaded into a mainframe computer and then put into a mechanical avatar.

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I call this laser porting and I think that laser porting may already exist.

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There could be billions of souls laser porting themselves across the galaxy.

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If transhumanist technologists are successful, we'll soon be uploading the contents of our brains into the cloud.

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What's so amazing about this is that this is a virtual fulfillment of Christian prophecy.

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It tells that the end times Christ will himself return on the cloud and that believers will be given new bodies into which their souls will be transferred and then they will be able to ascend into the cloud.

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And that's what happens with Jesus through the cloud.

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So here we have this incredible parallel going on where technologists are creating a technological version of the cloud that perfectly corresponds to what Christian prophecy says is going to happen at the time of the second coming.

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We know now that there may have even been a genetic marker put into us to actually guide us in this direction.

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Does that mean our natural destiny as a species was actually programmed by these advanced beings?

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Are we just copying what these extraterrestrial visitors had done eons ago?

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At some point we're going to wake up and realize that this technology we're creating may have already existed in the ancient world and that it was possessed by extraterrestrial beings.

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And wherever this technology takes us, maybe it was always part of a bigger plan that ultimately takes us back to our origins up in the stars.

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As human civilization prepares for the next phase of its evolution, well what we think of as human beings become extinct.

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Ancient astronaut theorists say no because they argue being human is more than being made of flesh and blood.

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It's the realization that it is our thoughts, our ideas and especially our feelings that make humans unique, not only from each other but from all the living creatures in the universe.

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01:23:56,000 --> 01:24:14,000

It is also this realization that should both reassure and motivate us as we fulfill humankind's ultimate destiny by becoming the next generation of extraterrestrials in the exploration of distant alien worlds.