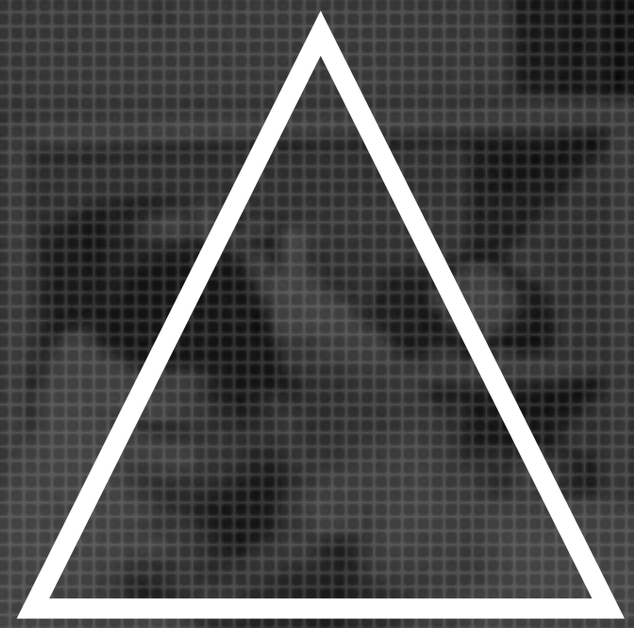
PERESTROIKA


YESTERDAY

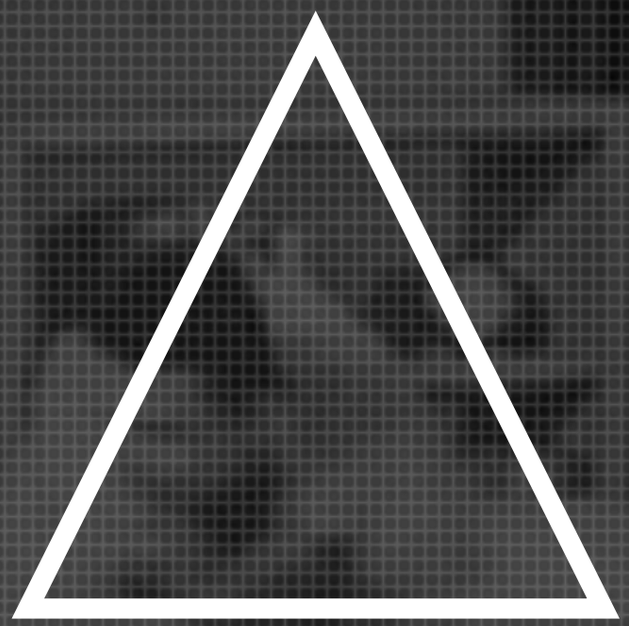
BASIC UNDERSTANDINGS



BASIC SOURCES

BASIC CONCEPTS

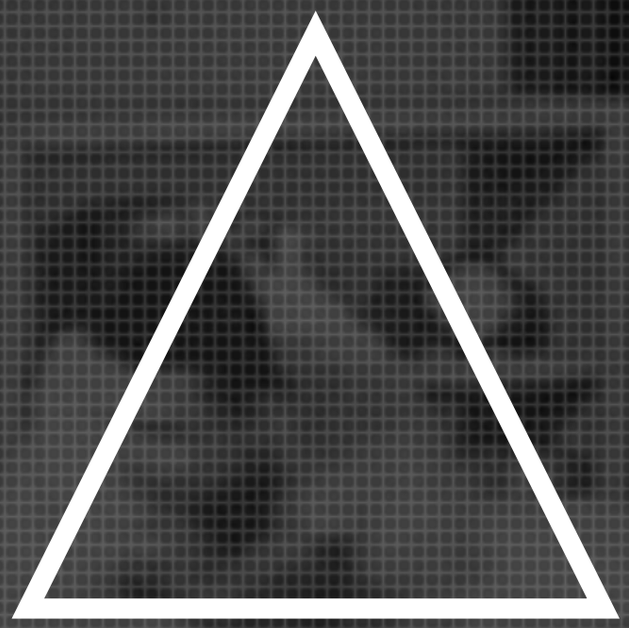
BASIC UNDERSTANDINGS



1. Em breve, o Digital será Industrial.

2. Tudo é tecnologia.

3. Nem todos temos a mesma orientação temporal.



BASIC SOURCES

Future/Novelty

Wisdom

Knowledge

Information

Data

Register

Reflection:
joining wholes

Mapping:
formation of a whole

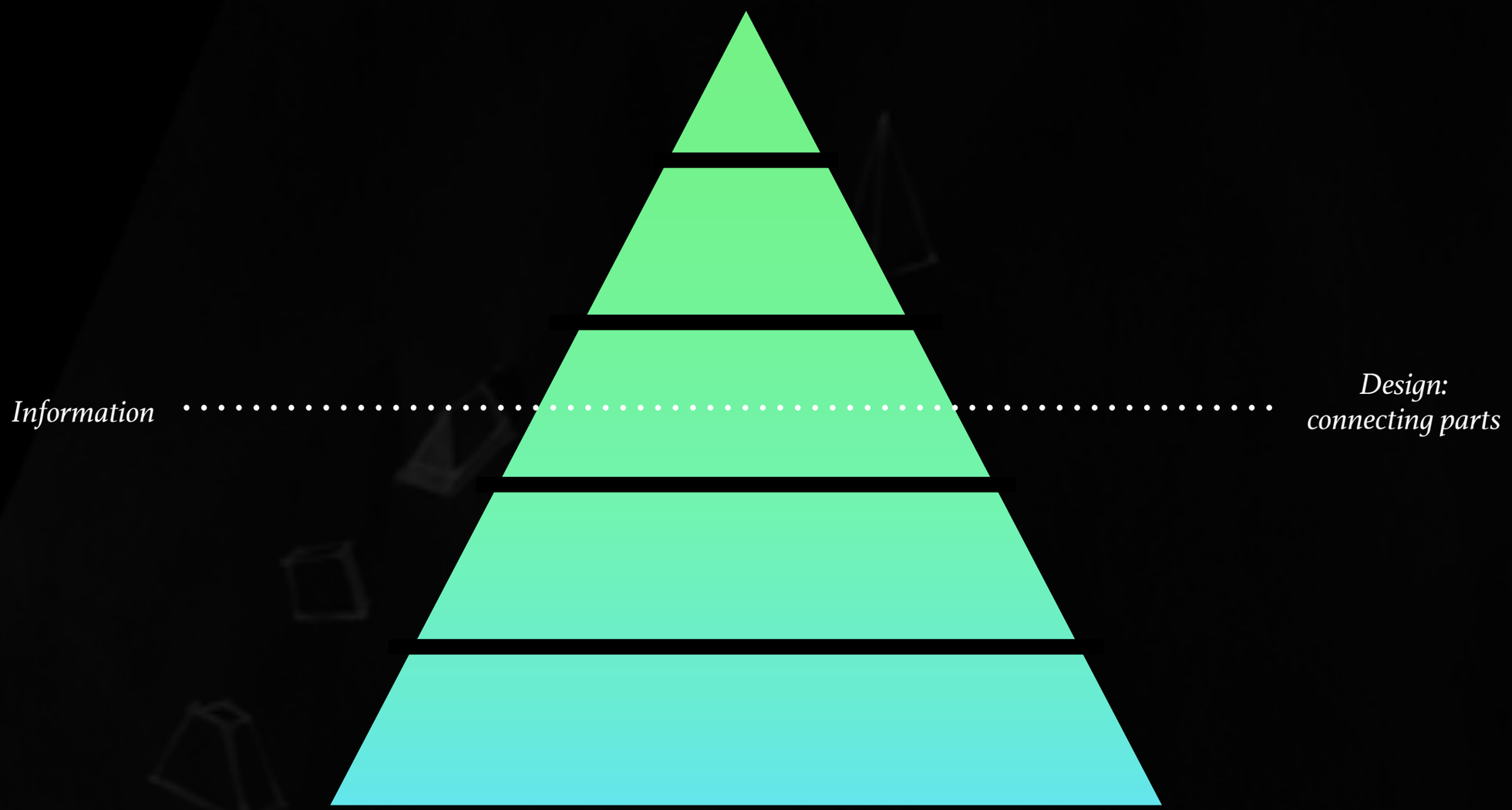
Design:
connecting parts

Visualization:
gathering parts

Start:
single part

Past/Experience

Fonte: David Mccandleuss

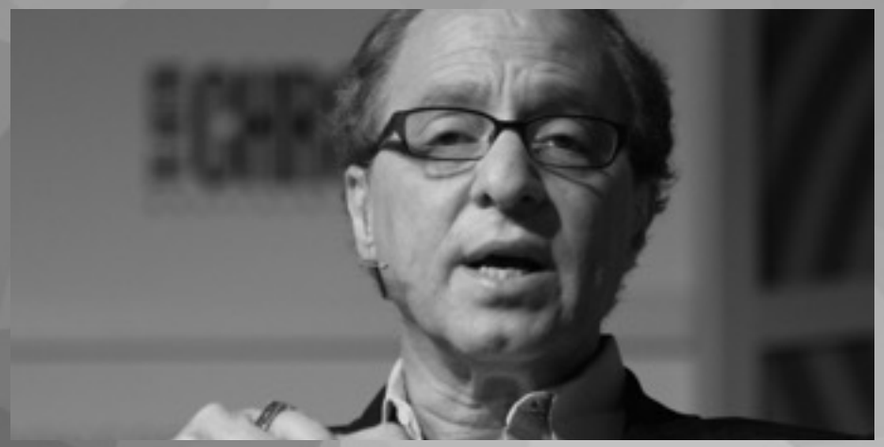


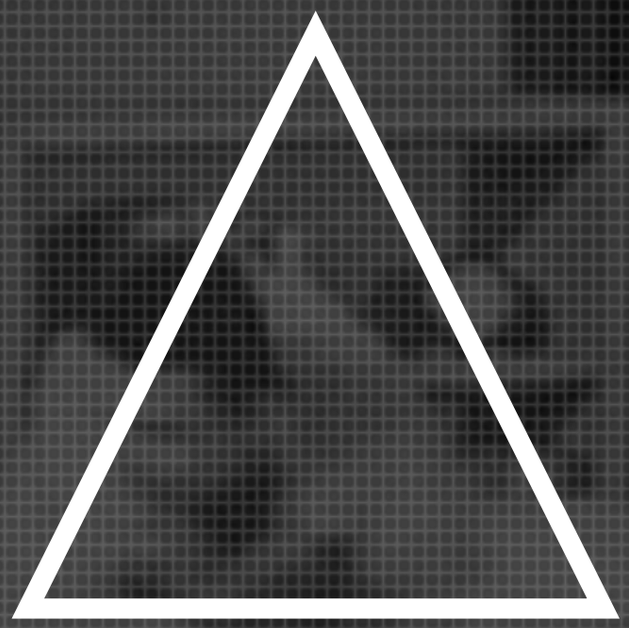
Fonte: David Mccandleuss

1. Media

2. Business

3. Futurists





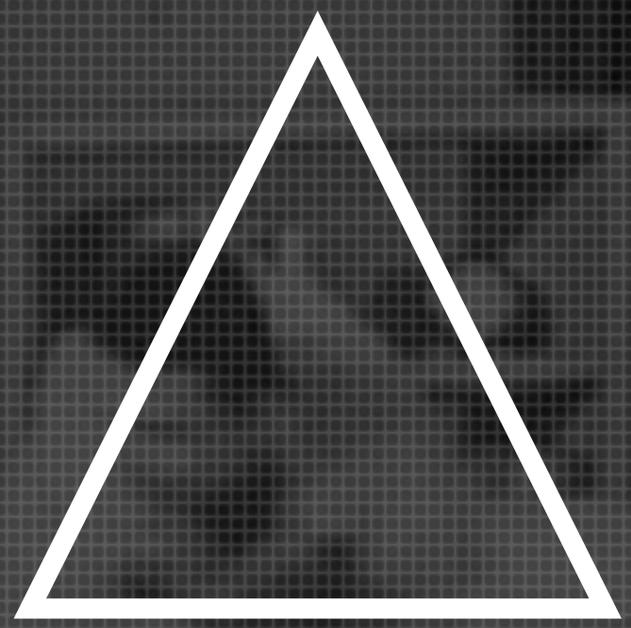
BASIC CONCEPTS

1. Boas previsões computacionais soam absurdas.

1. Boas previsões computacionais soam absurdas.

2. Previsões computacionais são exponenciais.

3. Duas grandes forças evolutivas ao mesmo tempo.



CONVOCAÇÃO


YOU

*Presença ativa / Empatia / Anote / Olhar Positivo / **Opinião vs. Construção***

Well of Knowledge

Repetir

Referir

Revisar

Refletir

Contexto

Sentimento

Insight

Ação

Três minutos
para cada etapa.

Dicas:
Evite conversar.
Não pare de escrever.
Fique focado em você.

1. O que aconteceu ontem?

2. Como eu me senti?

3. Quais foram
meus maiores insights?

4. O que posso fazer amanhã para colocá-los em prática?

Grupos de três/quatro:
dois minutos para cada pessoa.

Compartilhe o maior insight
e o que pretende fazer.

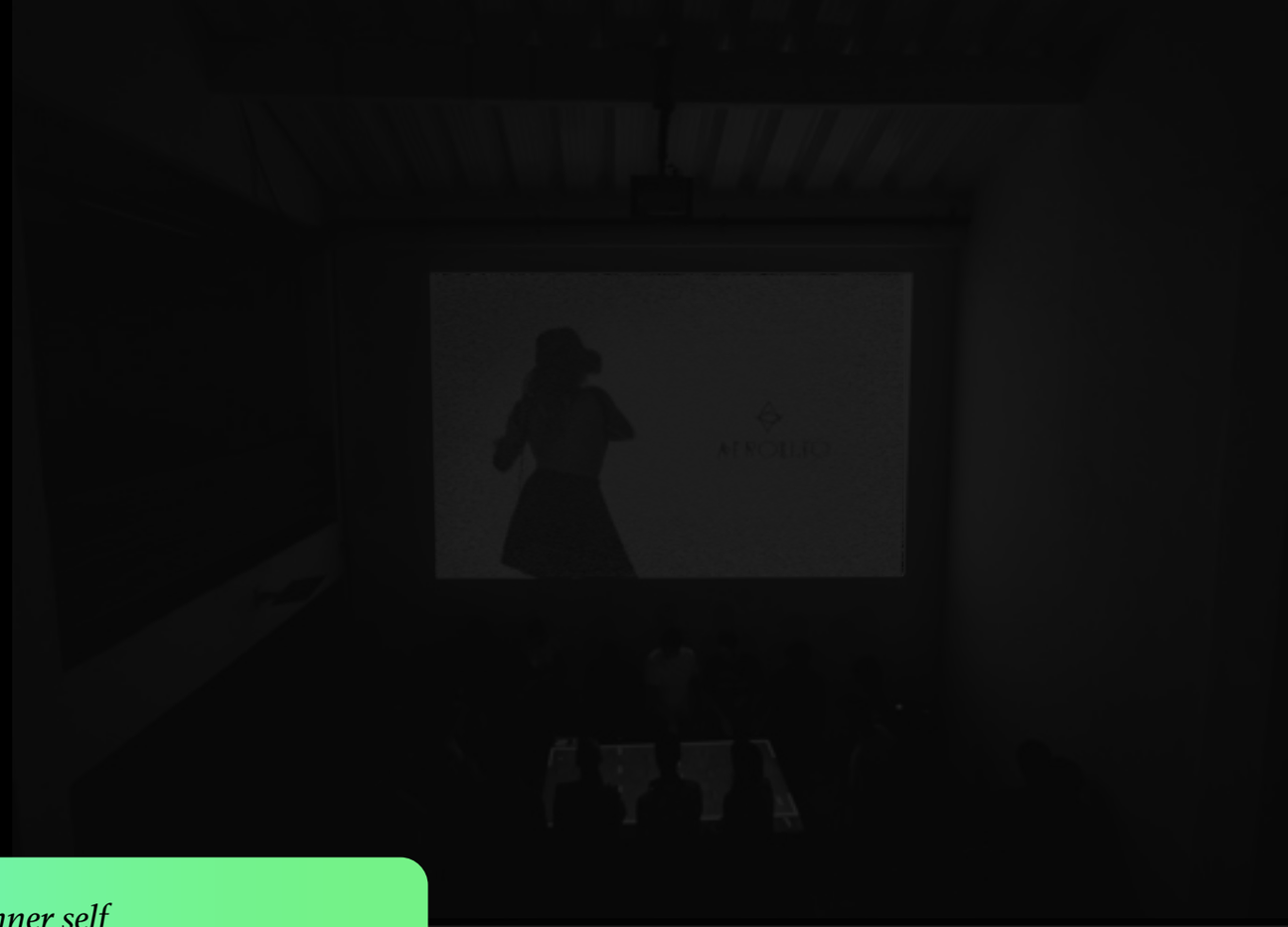
(Seis minutos
para toda a atividade.)

Opinião vs. Construção

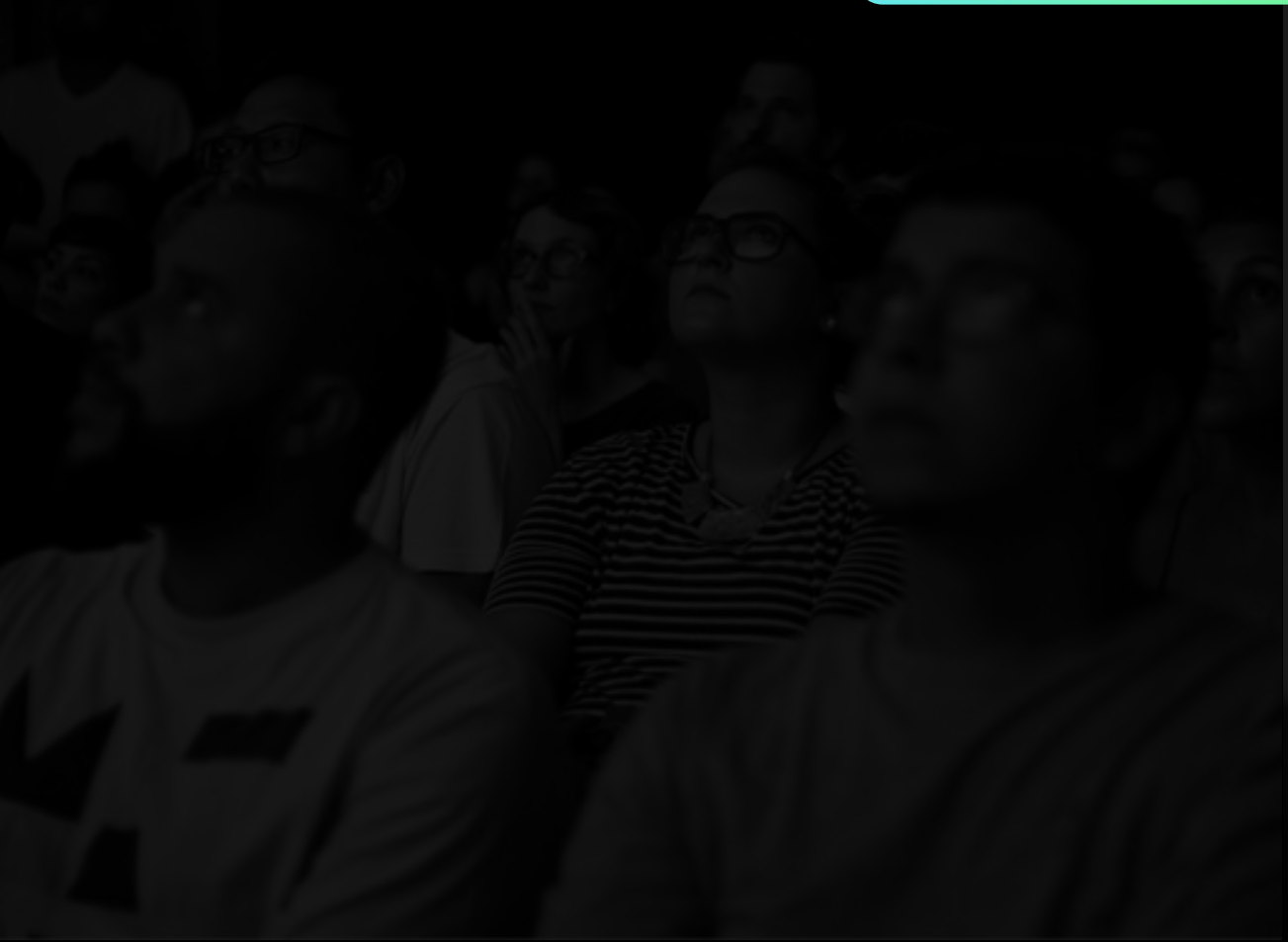
WARM UP

Shots
of Awe

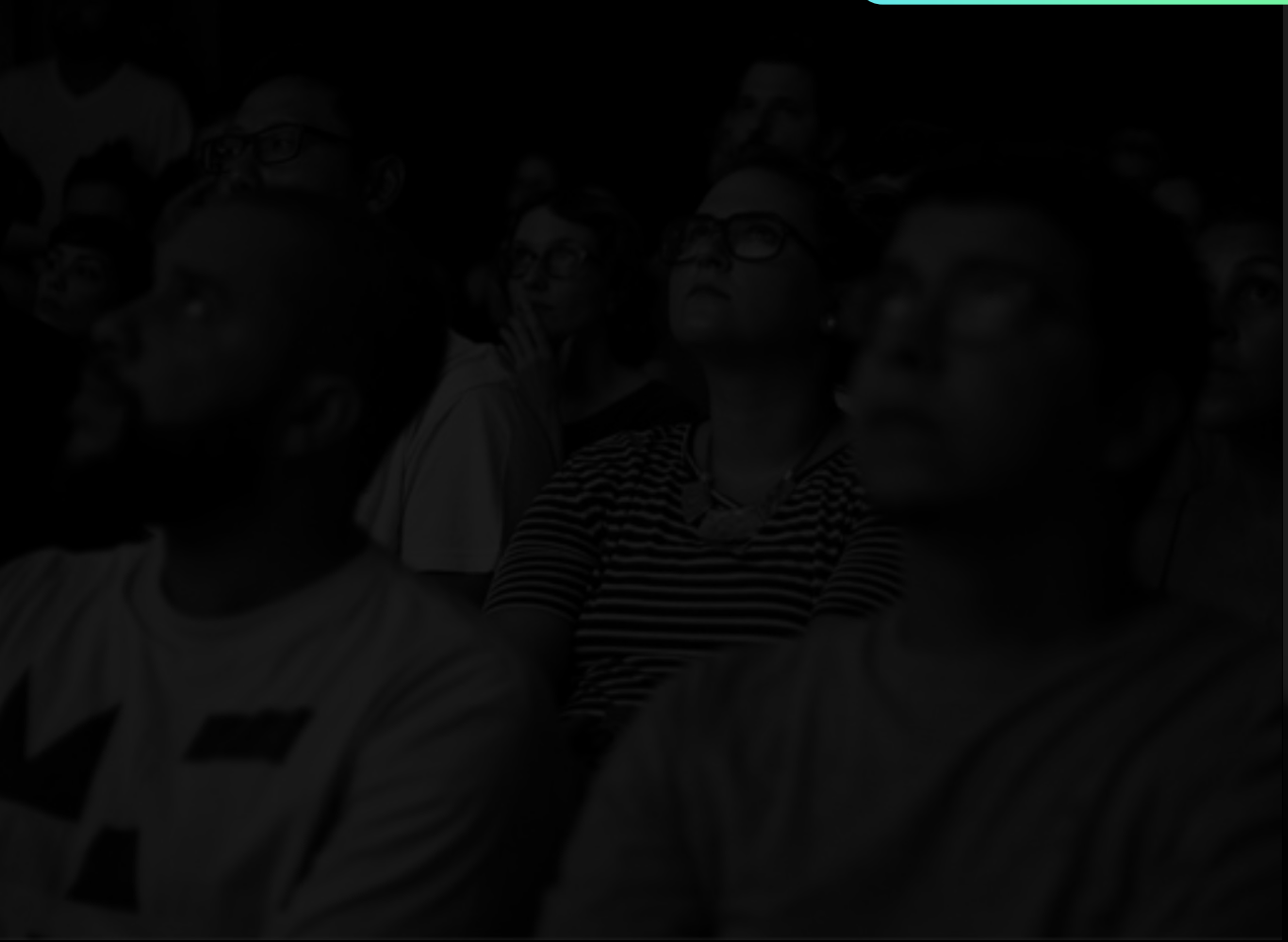

TODAY

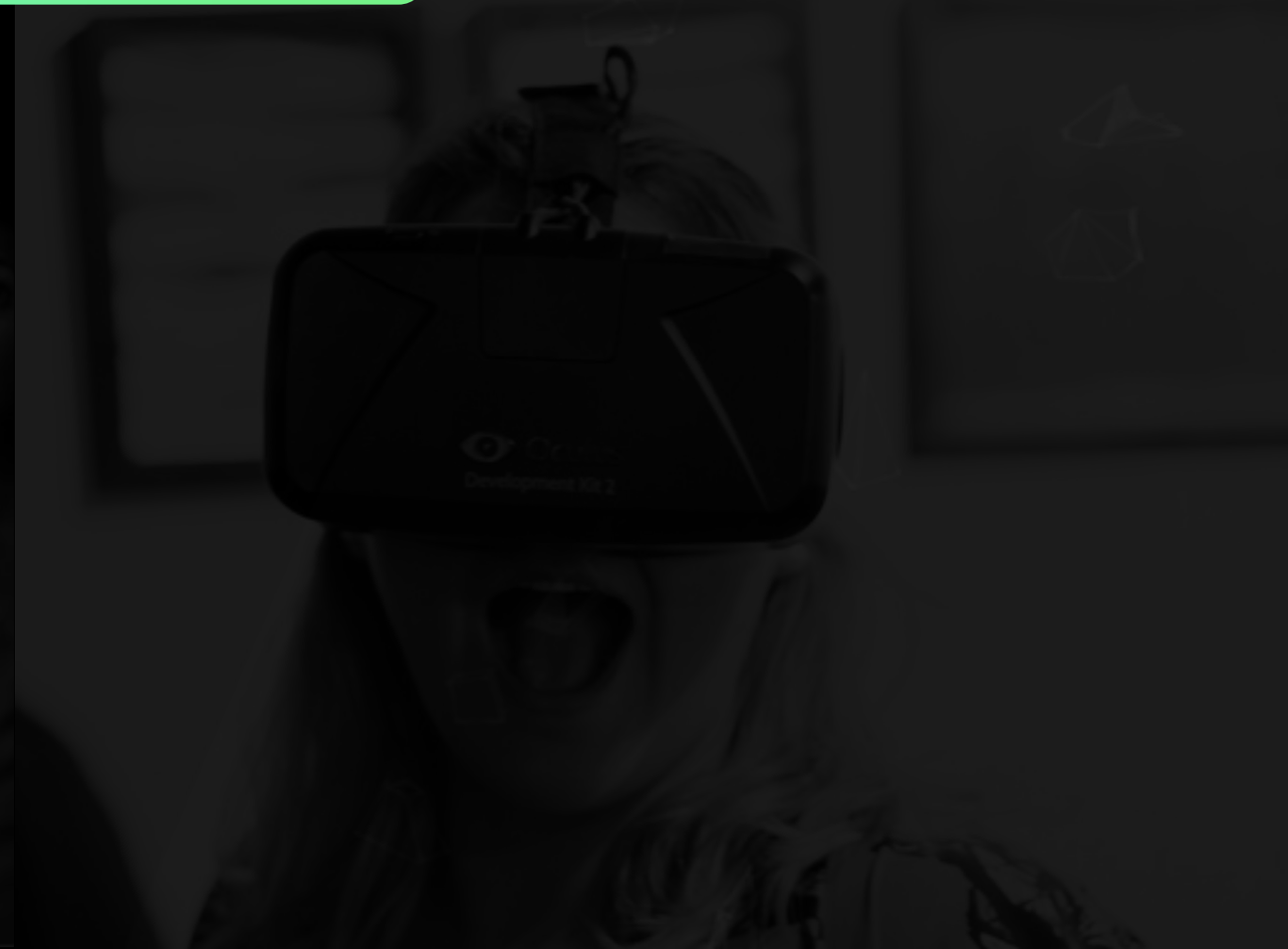


0. Inner self

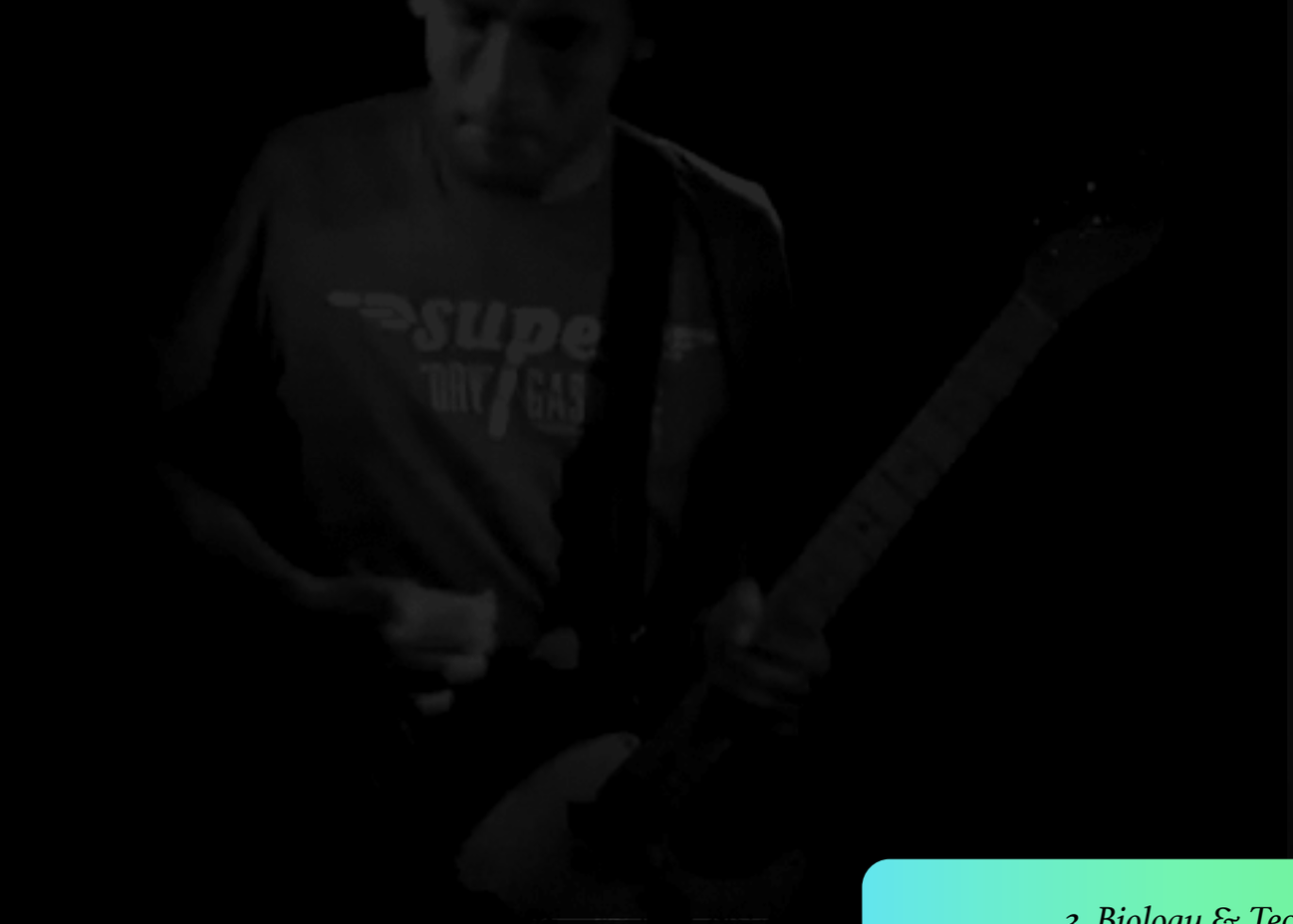


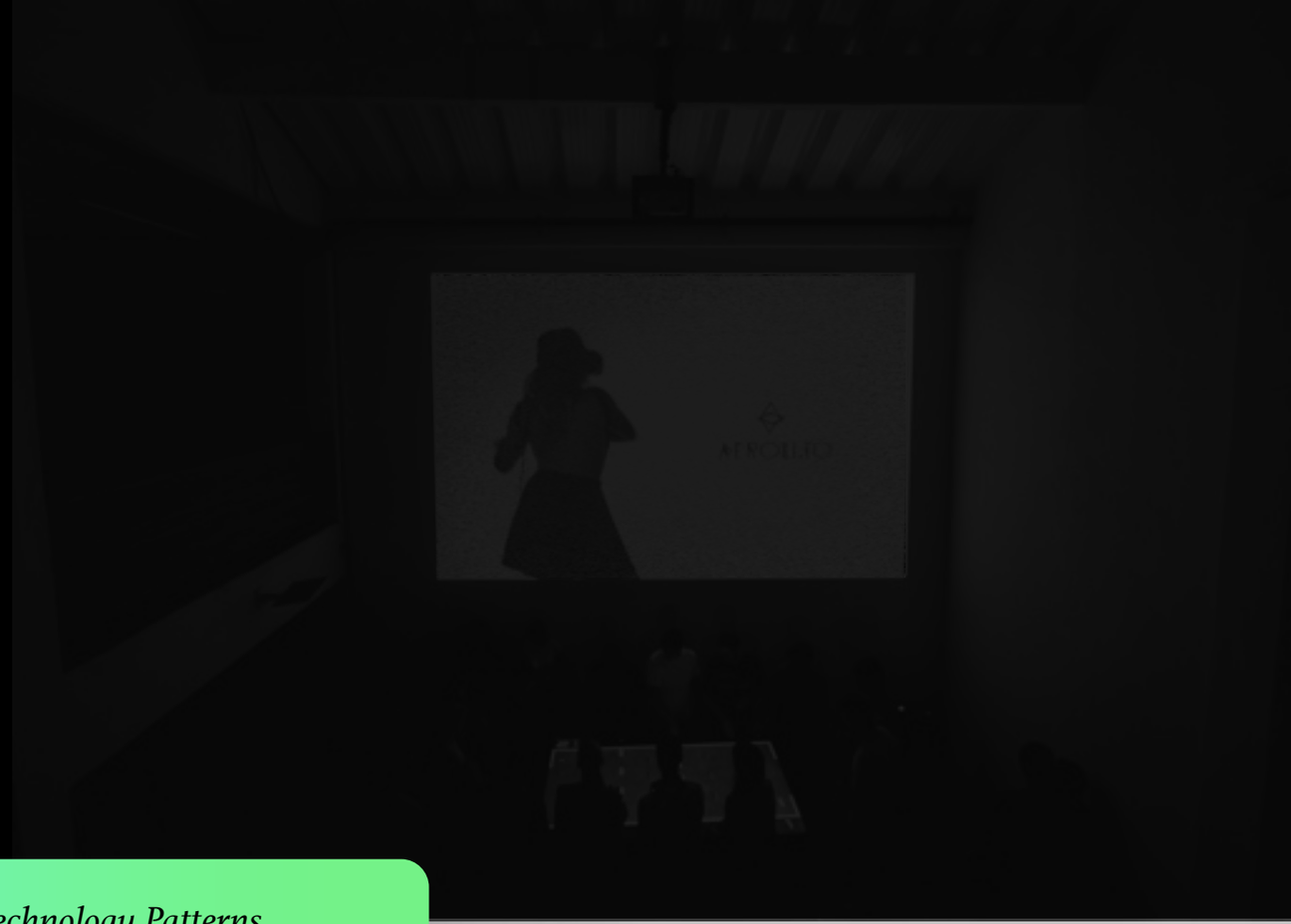
1. Breakthroughs



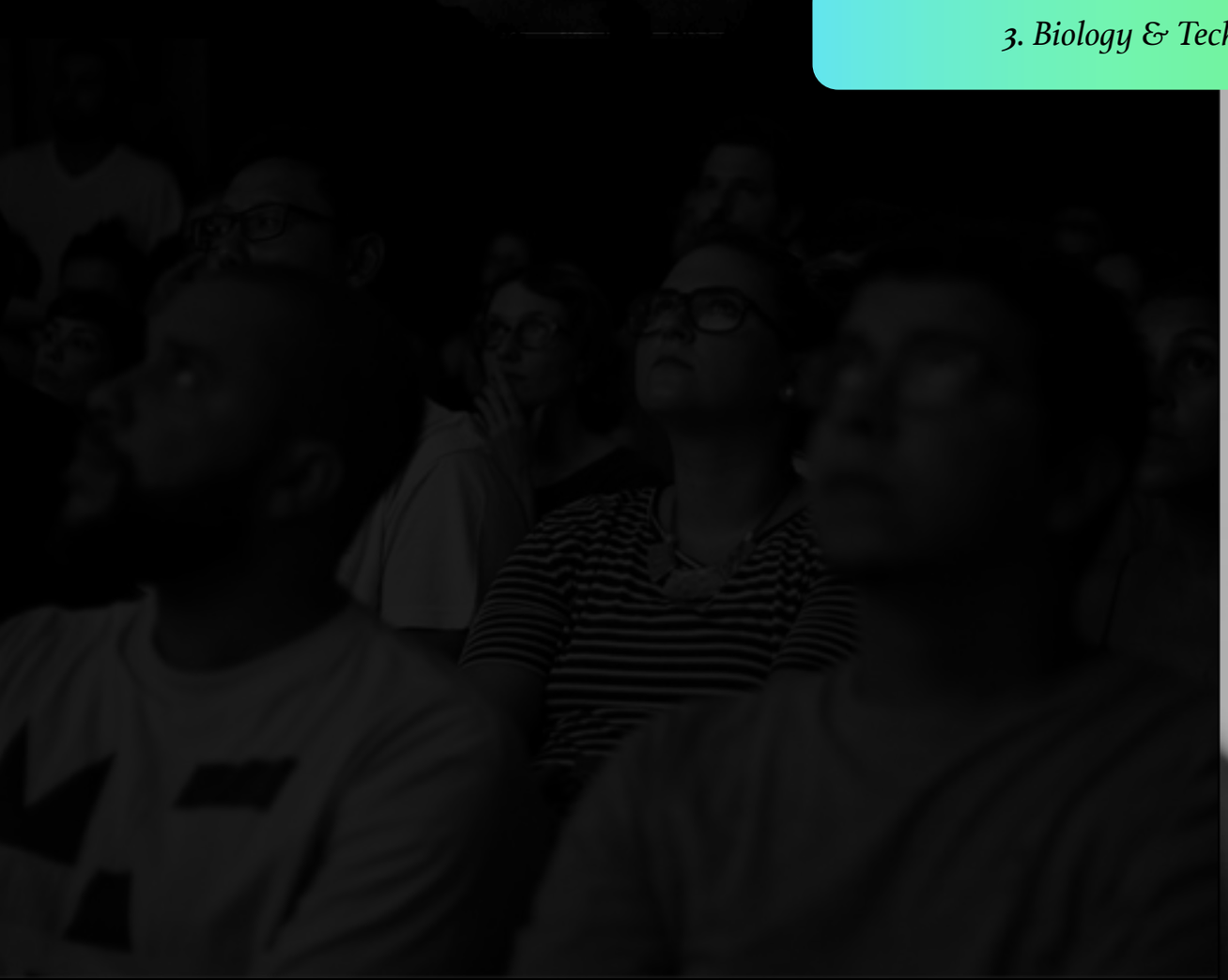


2. Post Digital Revolutions





3. Biology & Technology Patterns




POX

A casa transformada pelo relâmpago

Alcovas equilibradas a sufocar

Esta terra insaciável de um planeta, a Terra

Atacada por chifres mecânicos

Porque te amo, te amo em fogo e vento

Você diz, qual é o tempo de espera para a sua mola?

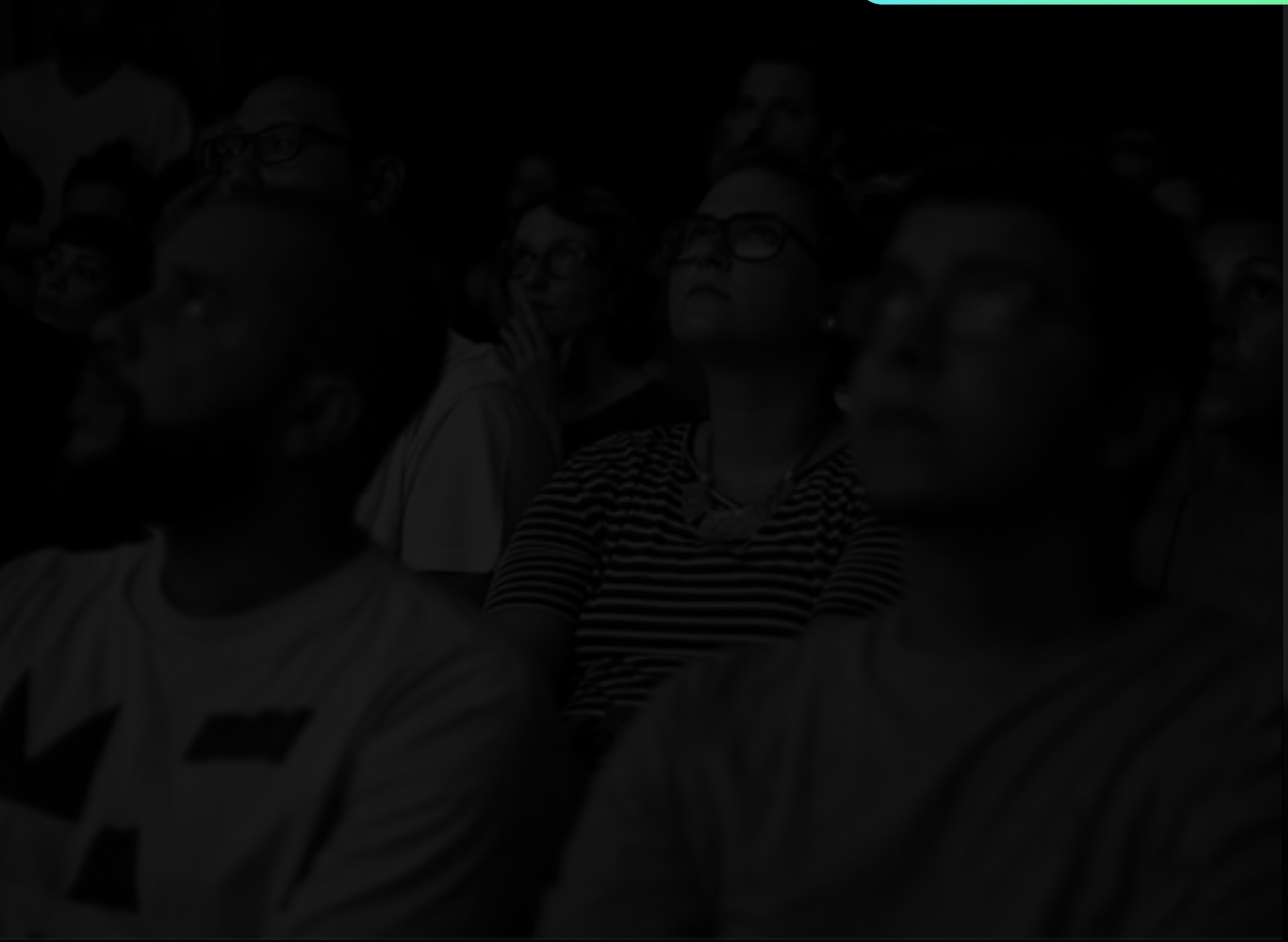
Eu lhe digo, está à espera do ramo que flui

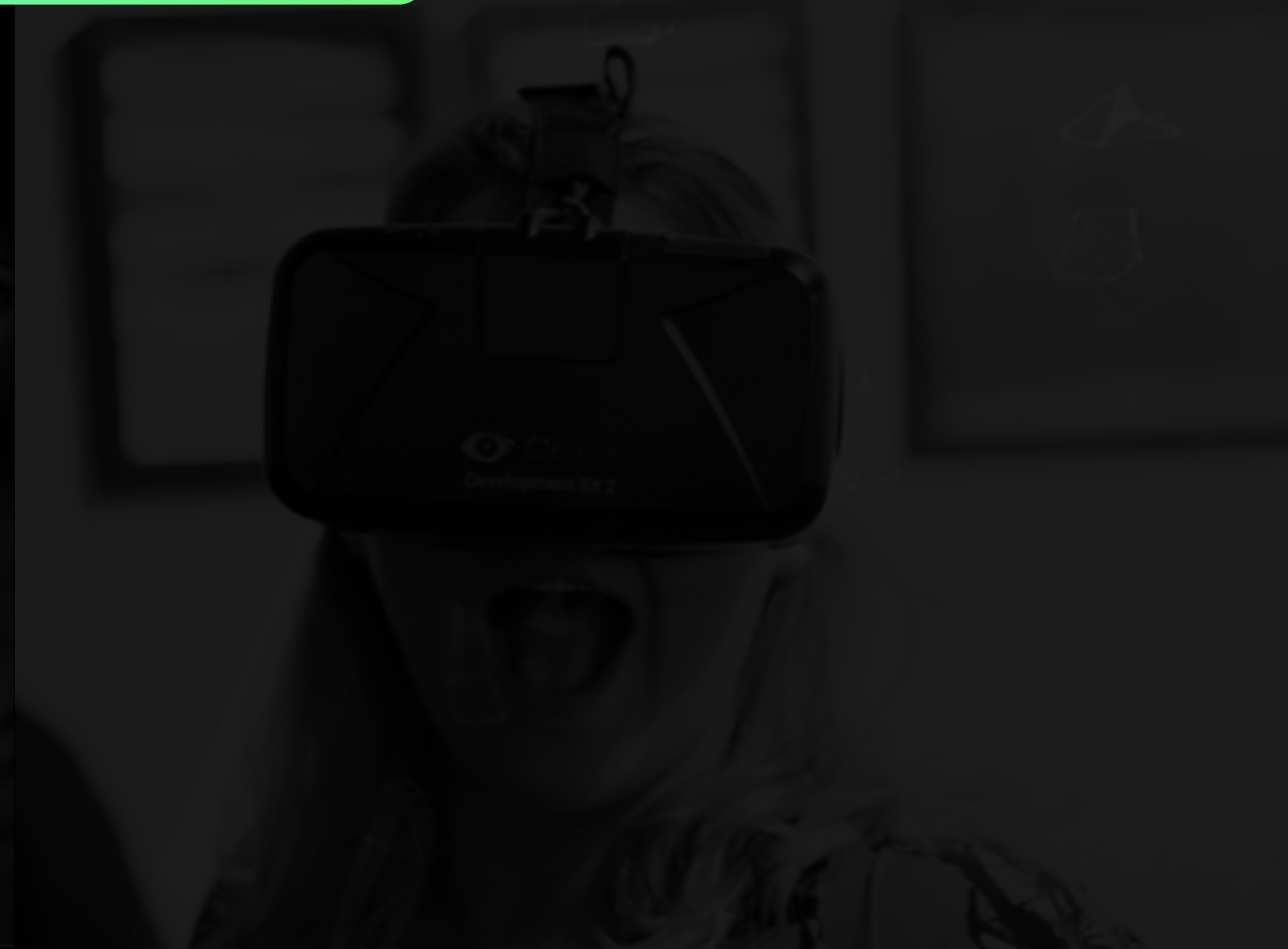
Porque você é a arquitetura do olente diamante

Que não sabe por que ele cresce.

William Shakespeare, 1611

1. Breakthroughs





MIT Breakthroughs

MIT Technology Review

10 Breakthrough Technologies

- Immune Engineering
- Precise Gene Editing in Plants
- Conversational Interfaces
- Reusable Rockets
- Robots That Teach Each Other
- DNA App Store
- SolarCity's Gigafactory
- Slack
- Tesla Autopilot
- Power from the Air

Immune Engineering

Genetically engineered immune cells are saving the lives of cancer patients. That may be just the start.

Availability: 1-2 years

by Antonio Regalado

DNA App Store

An online store for information about your genes will make it cheap and easy to learn more about your health risks and predispositions.

Availability: this year

by Antonio Regalado

Robots That Teach Each Other

What if robots could figure out more things on their own and share that knowledge among themselves?

Availability: 3-5 years

by Amanda Schaffer

Many of the jobs humans would like robots to perform, such as packing items in warehouses, assisting bedridden patients, or aiding soldiers on the front lines, aren't yet possible because robots still don't recognize and easily handle common objects. People generally have no trouble folding socks or picking up water glasses, because we've gone through "a big data collection process" called childhood, says Stefanie Tellex, a computer science professor at Brown University. For robots to do the same types of routine tasks, they also need access to reams of data on how to grasp and manipulate objects. Where does that data come from? Typically it has come from painstaking programming. But ideally, robots could get some information from each other.


One-shot grasping often
leads to failed grasp attempts
Successful Grasps 0
Failed Grasps 0

Power from the Air

Internet devices powered by Wi-Fi and other telecommunications signals will make small computers and sensors more pervasive.

Availability: 2-3 years

by Mark Harris

Even the smallest Internet-connected devices typically need a battery or power cord. Not for much longer. Technology that lets gadgets work and communicate using only energy harvested from nearby TV, radio, cell-phone, or Wi-Fi signals is headed toward commercialization. The University of Washington researchers who developed the technique have demonstrated Internet-connected temperature and motion sensors, and even a camera, powered that way.

Transferring power wirelessly is not a new trick. But getting a device without a conventional power source to communicate is harder, because generating radio signals is very power-intensive and the airwaves harvested from radio, TV, and other telecommunication

10 Breakthrough Technologies 2014

Introduction

Agricultural Drones

Ultraprivate Smartphones

Brain Mapping

Neuromorphic Chips

Genome Editing

Microscale 3-D Printing

Mobile Collaboration

Oculus Rift

Agile Robots

Smart Wind and Solar Power

Archive of Past Lists

10 Breakthrough Technologies 2015

Introduction

Magic Leap

Nano-Architecture

Car-to-Car Communication

Project Loon

Liquid Biopsy

Megascale Desalination

Apple Pay

Brain Organoids

Supercharged Photosynthesis

Internet of DNA

Archive of Past Lists

2. Post Digital Revolutions

Genética/Molecular/Biotech
Nanotech
Robótica/Inteligência Artificial

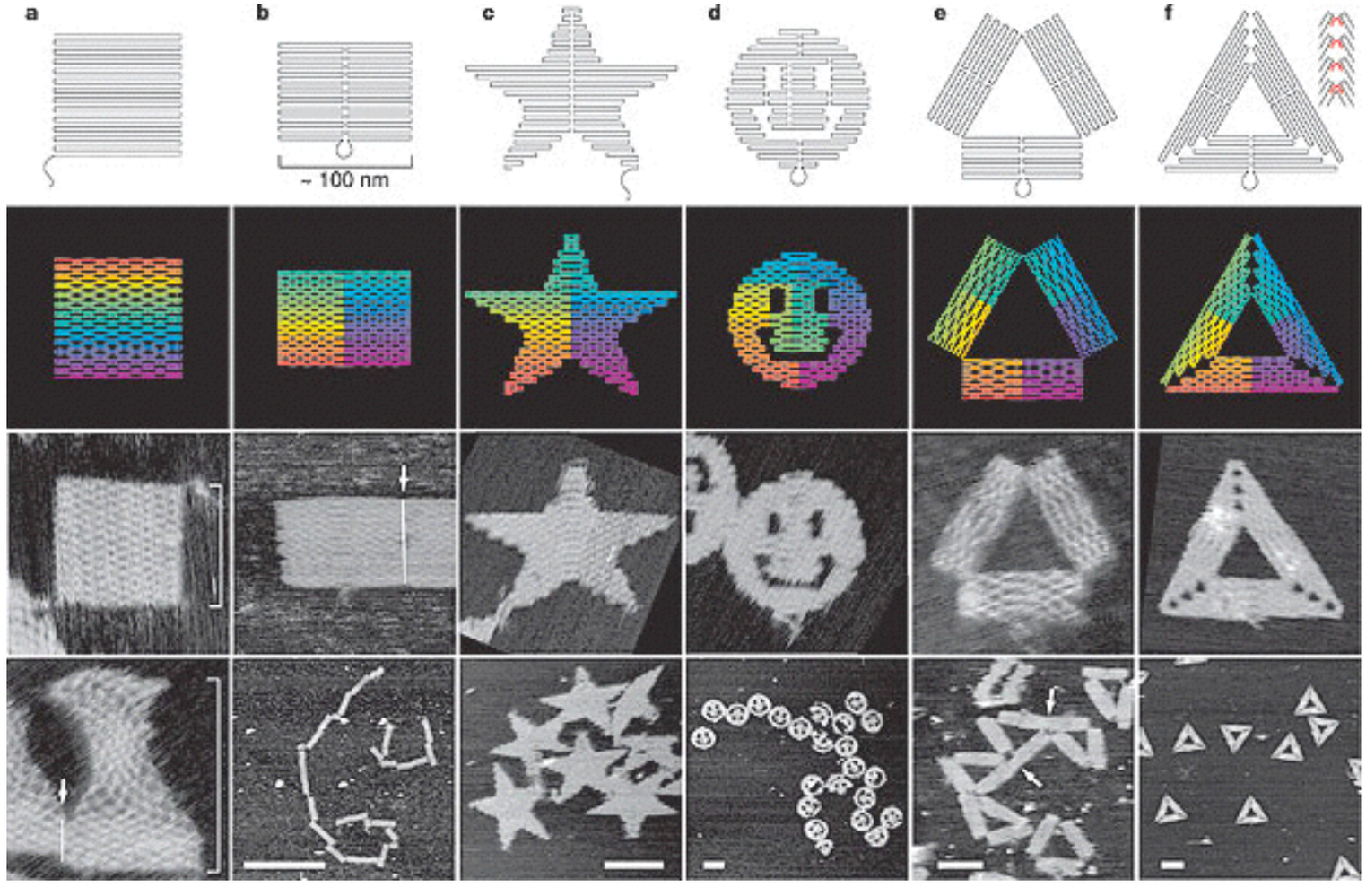
Biotech

Biotech: reprogramar a biologia.

MORNING

AFTERNOON

EVENING


a
b
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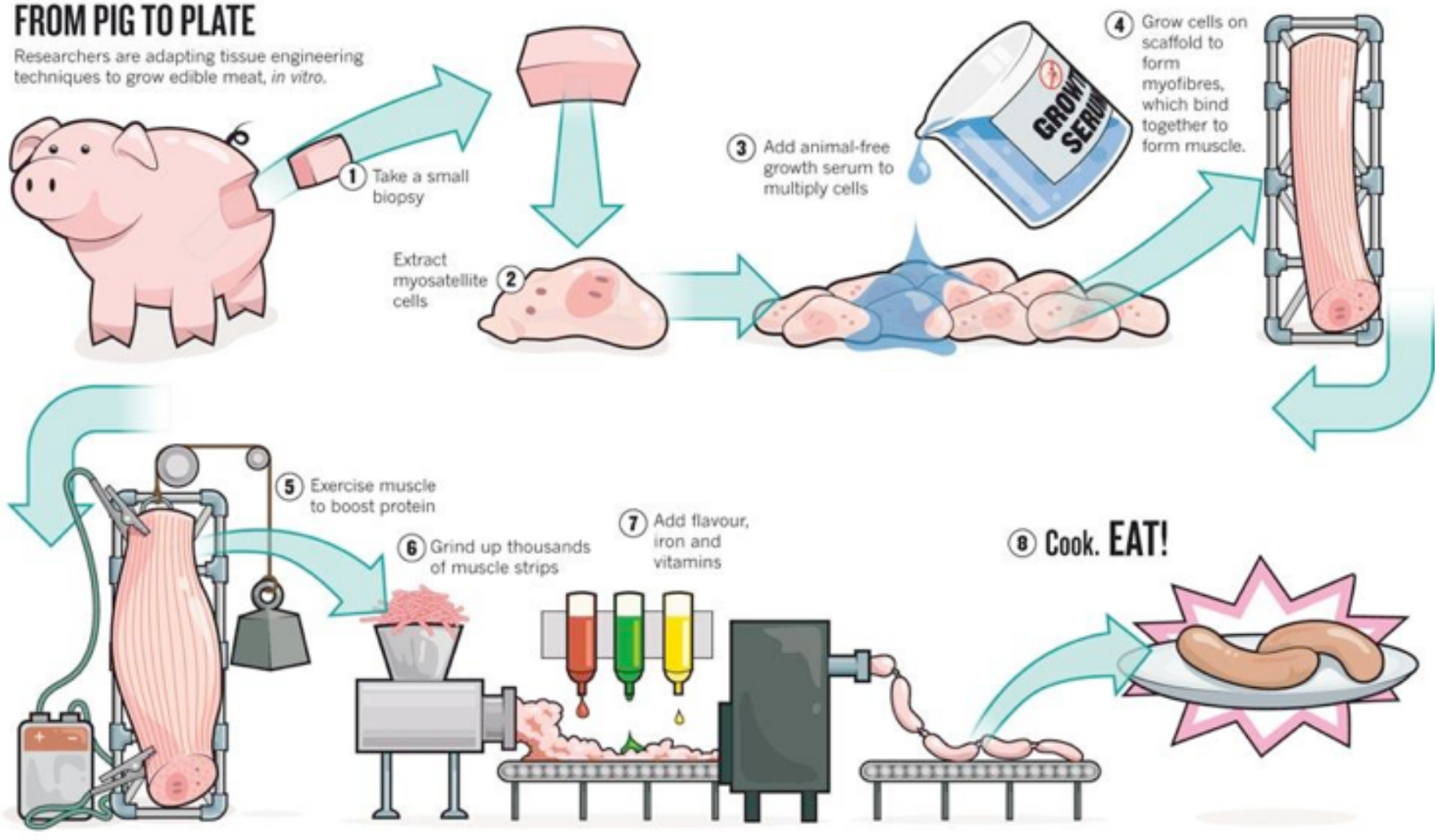
~ 100 nm

FROM PIG TO PLATE

Researchers are adapting tissue engineering techniques to grow edible meat, *in vitro*.



GABOR FORGACS PART II

TEDMED 2011

< Gabor Forgacs at TEDMED 2011 - Q and A

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Sort by Most Recent Most Popular A-Z

Ben Goldacre
TEDMED 2012

What we don't know can hurt us: Industry bias against negative outcomes means vast amounts of research goes unpublished, Ben Goldacre says.

Todd Park Part 2
TEDMED 2012

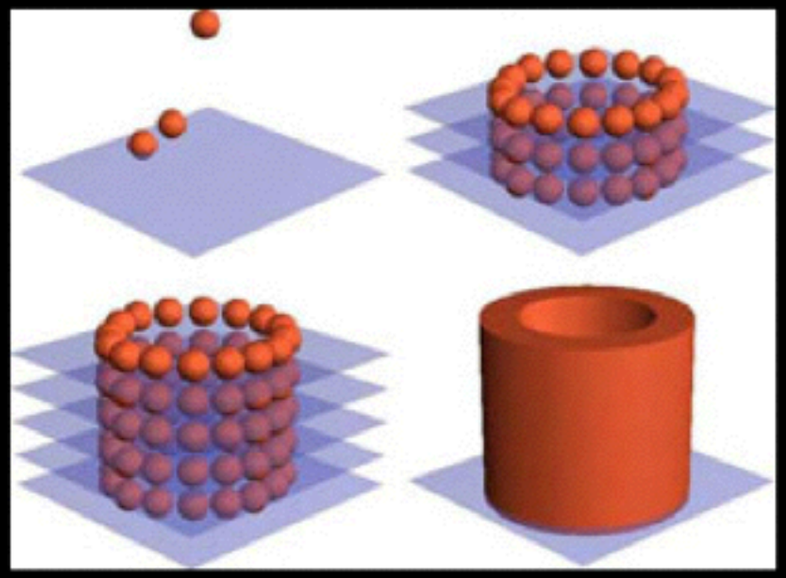
Todd Park talks about our vast stores of unused national health data and its virtually unlimited potential as a resource for new healthcare solutions.

Stephen Petronio
TEDMED 2012

Our physical and mental boundaries may be painfully censored. But as Stephen Petronio shows, we can choose to dance brilliantly within them nonetheless.

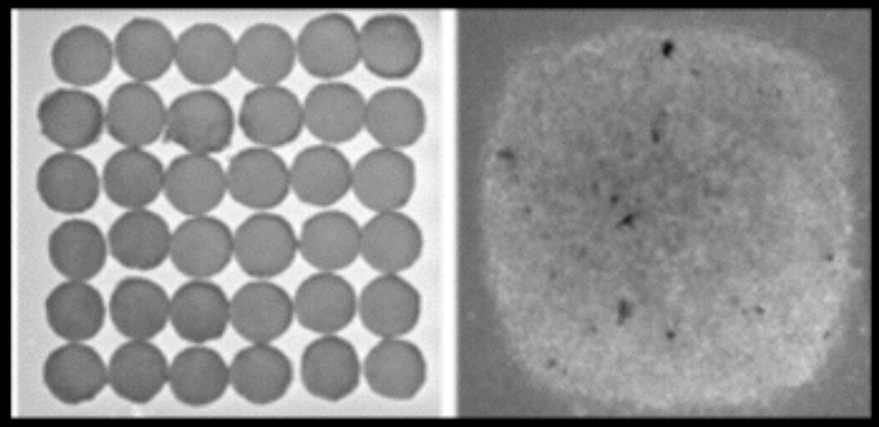
Chris Price and Jill

Bioprinting is machine printing of cells using bio-ink – "aggregates of cells"



- Start with cells from donor animal, multiplied by cell culture
- Machine places cell spheres into pattern
- Spheres fuse to form final tissue

…enabling the formation of biological, native tissue



- Structures entirely made from animal muscle cells with the ability to faithfully reproduce native tissue structure
- Opportunity to further enhance taste, texture and nutritional qualities

1 MINUTE READ

The $325,000 Lab-Grown Hamburger Now Costs Less Than $12

A real burger made without the cruelty and pollution is now within reach.

WIRED

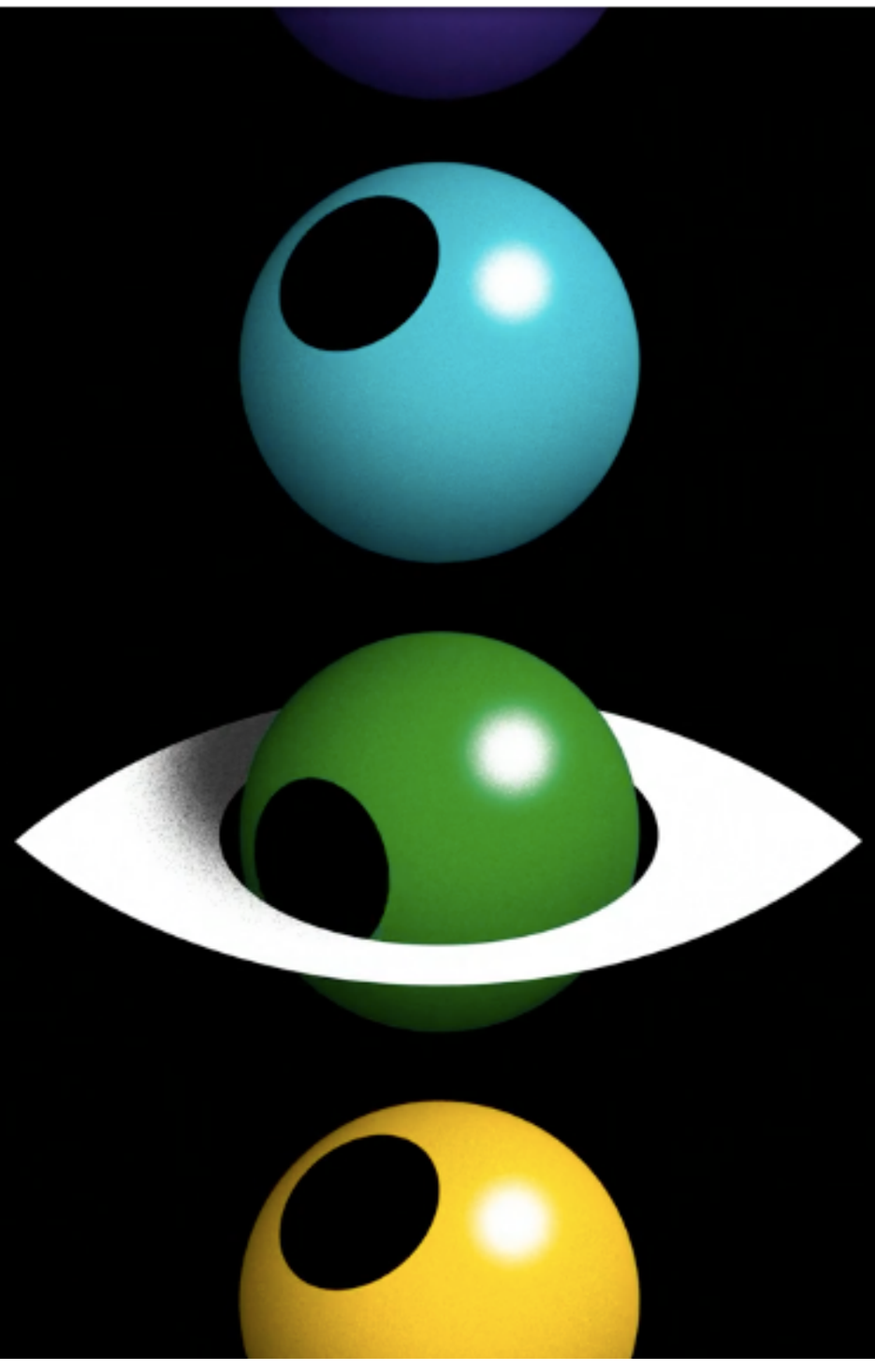
Easy DNA Editing Will Remake the World. Buckle Up.

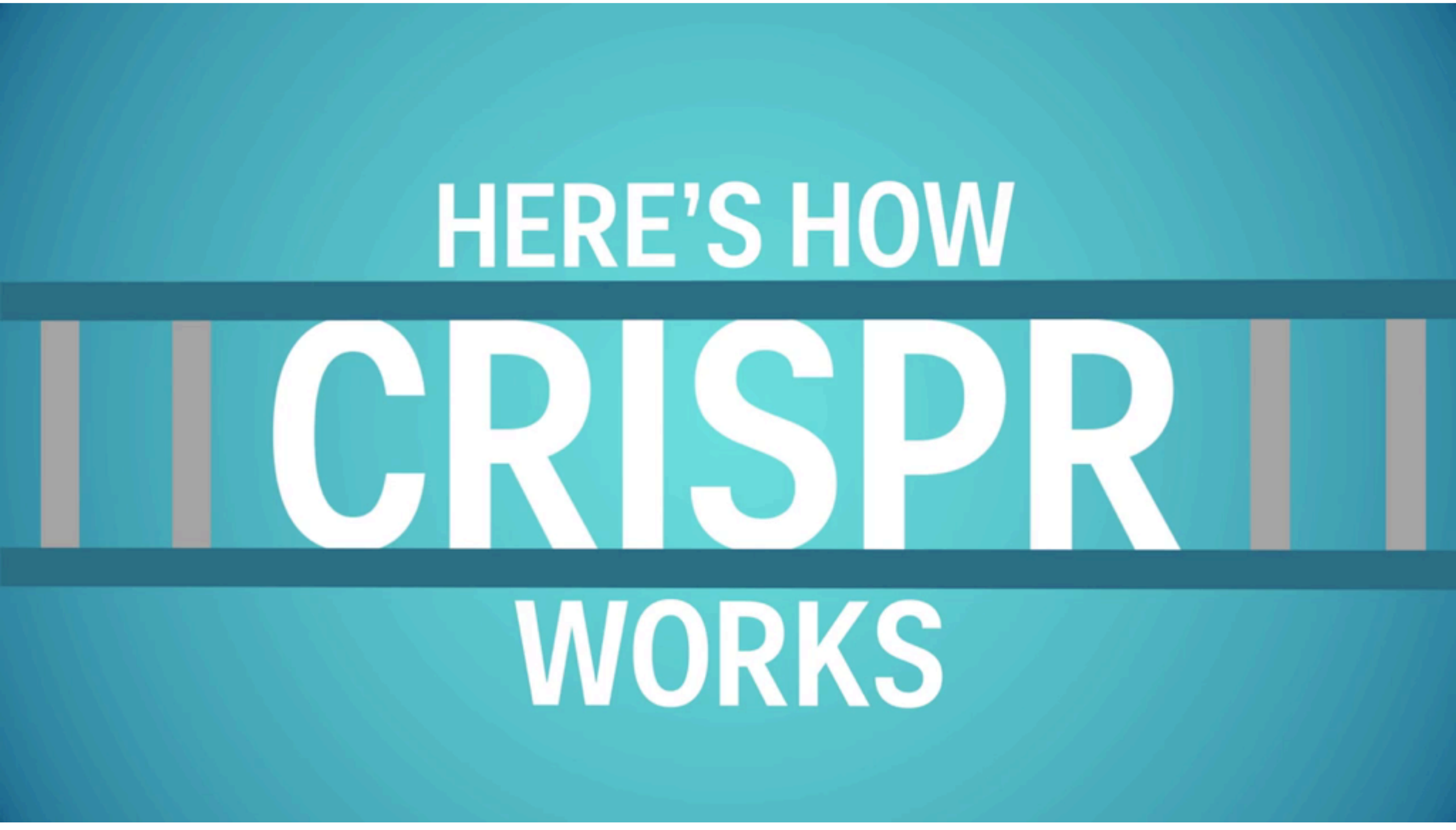
The Genesis Engine.

We now have the power to quickly and easily alter DNA. It could eliminate disease. It could solve world hunger. It could provide unlimited clean energy.

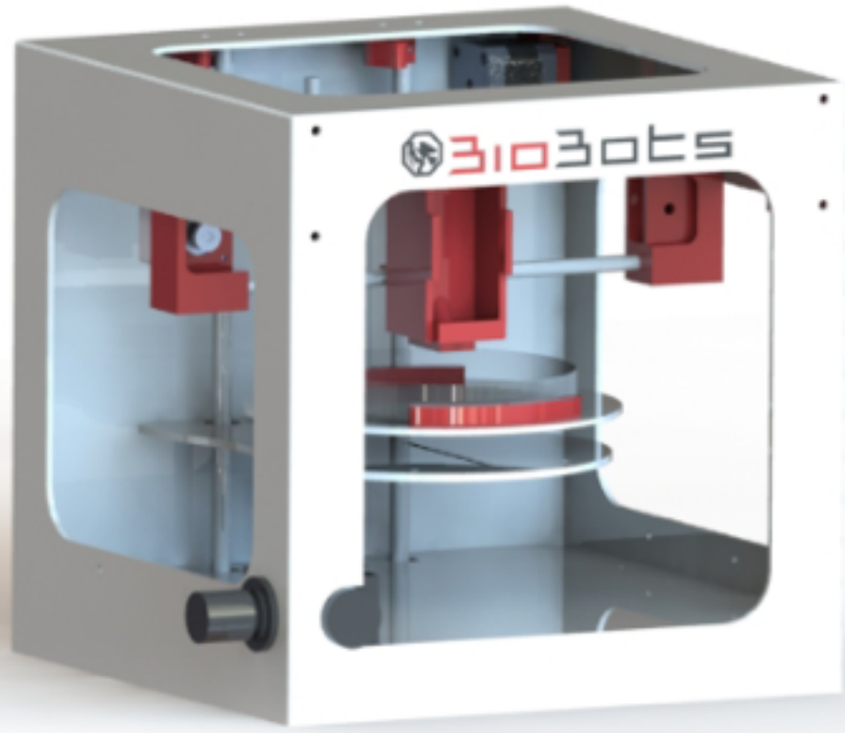
It could really get out of hand.

by Amy Maxmen




HERE'S HOW
CRISPR
WORKS

3IO3OTS



BioBots 1

BioBots Is A 3D Printer For Living Cells

Nicola Mitchell May 6, 2015

U.S. biotech startup BioBots sits at the intersection between computer science and chemistry. Its debut product, a desktop 3D printer for biomaterials, which was just demoed on stage at TechCrunch Disrupt NY — printing Van Gogh's ear in replica, no less — combines hardware, software and wetware. It's the latter area where the core innovation sits, says co-founder Danny Cabrera.

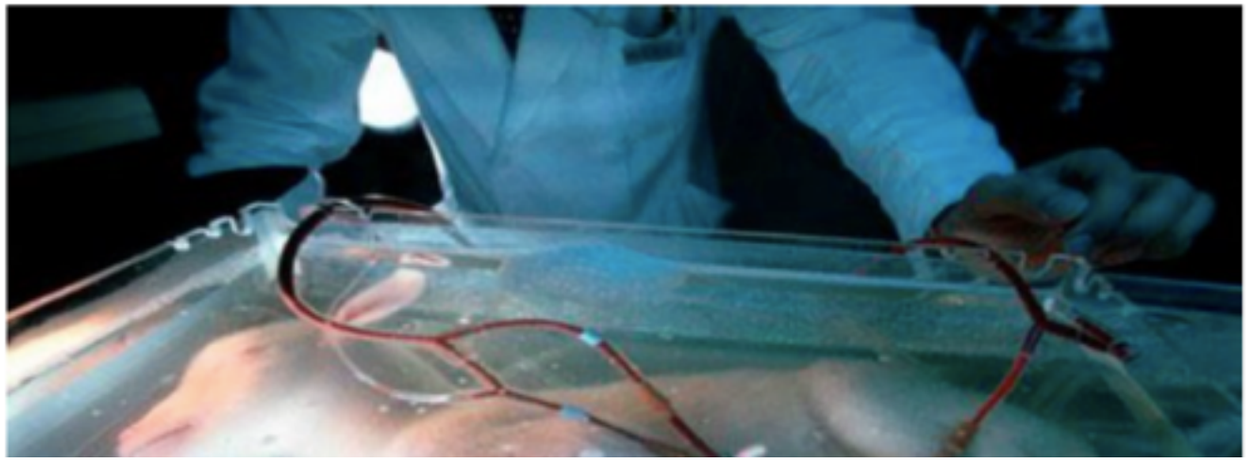
Biofabrication, the process of artificially building living tissue structures, is not a new field — there is more than a decade of research in this area already. But Cabrera and his co-founders believe they have spotted an opportunity to overhaul expensive (circa $100,000+), large, complex legacy devices — taking inspiration from the small, low-cost desktop 3D printers being used by the maker movement to extrude plastic.

Instead of plastic, BioBots' 3D printer uses a special ink that can be combined with biomaterials and living cells to build 3D living tissue and miniature human organs. The use-case at this point is for research and pre-clinical screening, such as drug testing (as a replacement for animal testing). It's not about 3D printing replacement organs from a person's own cells — albeit developments in this area are heading (incrementally) in that direction. More near term future potential for the tech is to help foster bespoke disease therapies, according to Cabrera.

TOP NEWS

The Artificial Womb Is Born: Welcome To The WORLD Of The MATRIX

By DNA on February 14, 2015

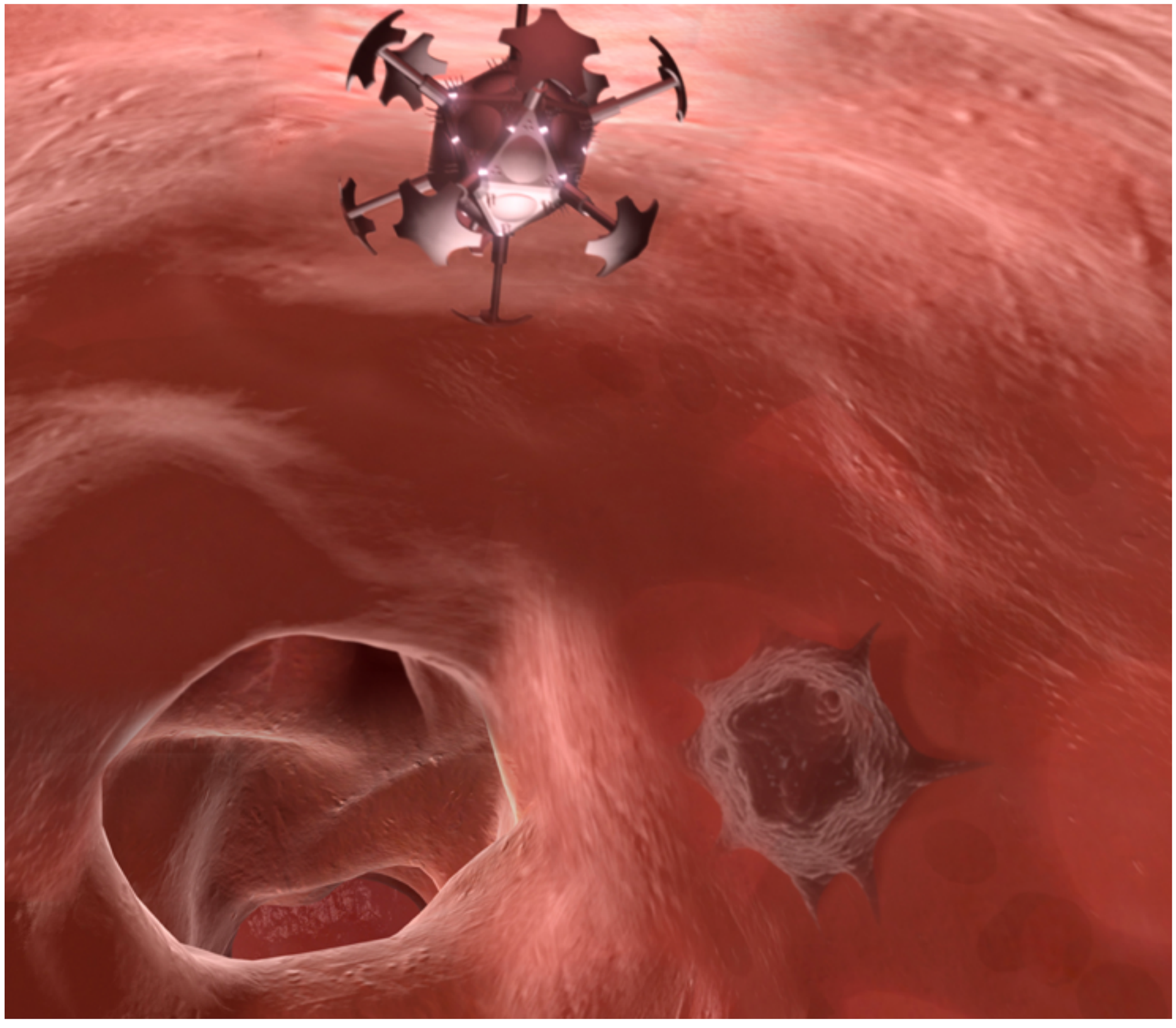


The artificial womb exists. In Tokyo, researchers have developed a technique called EUFI — extrauterine fetal incubation. They have taken goat fetuses, threaded catheters through the large vessels in the umbilical cord and supplied the fetuses with oxygenated blood while suspending them in incubators that contain artificial amniotic fluid heated to body temperature.

Nanotech

Tecnologia em nanoescala

Máquinas em nanoescala



>>>NANO ROBOTS

BIOLOGY / DECEMBER 29, 2014

NANOBOTS FIGHT CANCER: FIRST HUMAN CLINICAL TRIAL IN 2015

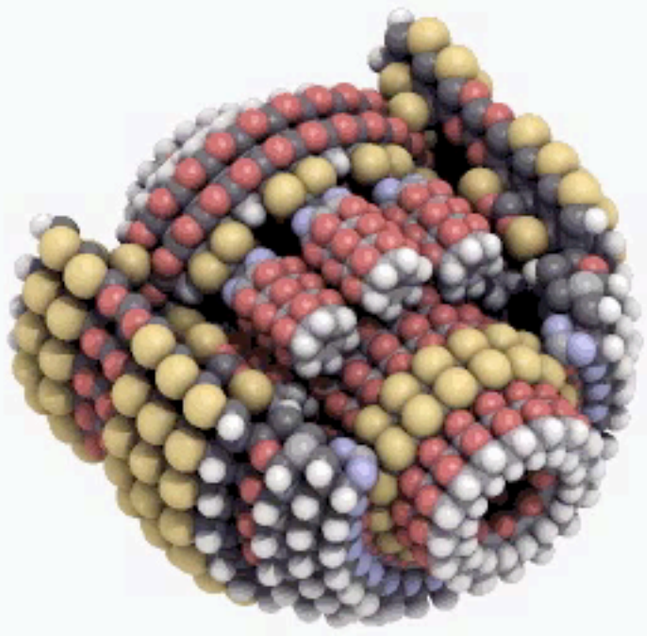
The first human clinical trial using nanobots to fight cancer will begin in 2015. The technology could later be used to repair spinal chords, improve epilepsy, and diabetes.

Dr. Ido Bachelet (Mina and Everard Goodman Faculty of Life Sciences and Institute of Nanotechnology and Advanced Materials) has led a research team that will inject nanorobots made from molecular DNA that are able to identify and kill cancer cells into patients. This is not expected to affect healthy cells. According to the London Jewish Chronicle, a dozen types of cancer can currently be recognized by the nanobots including leukemias and solid tumors. See Dr. Bachelet's TEDMED Talk on how nanobots will change everything about medicine.

Molecular Machinery Gallery

Beware of the stroboscopic illusion!

If molecular machines actually moved as shown in the animations below, they wouldn't work. Don't blame the simulation or the design, though. The problem is that the standard way to render video frames creates a stroboscopic illusion of jerky motion. Atoms typically vibrate hundreds of times per frame, but standard frames capture the position of each atom at a single instant, as if seen by the flash of a stroboscope. This creates the illusion that the atoms all vibrate at the frame rate, which is far too close to the frequency of the machine's moving parts. This gives the false impression that the machine parts are moving at nearly thermal speed, comparable to the speed of sound. At that speed, even if the machine worked, friction would be intolerable.



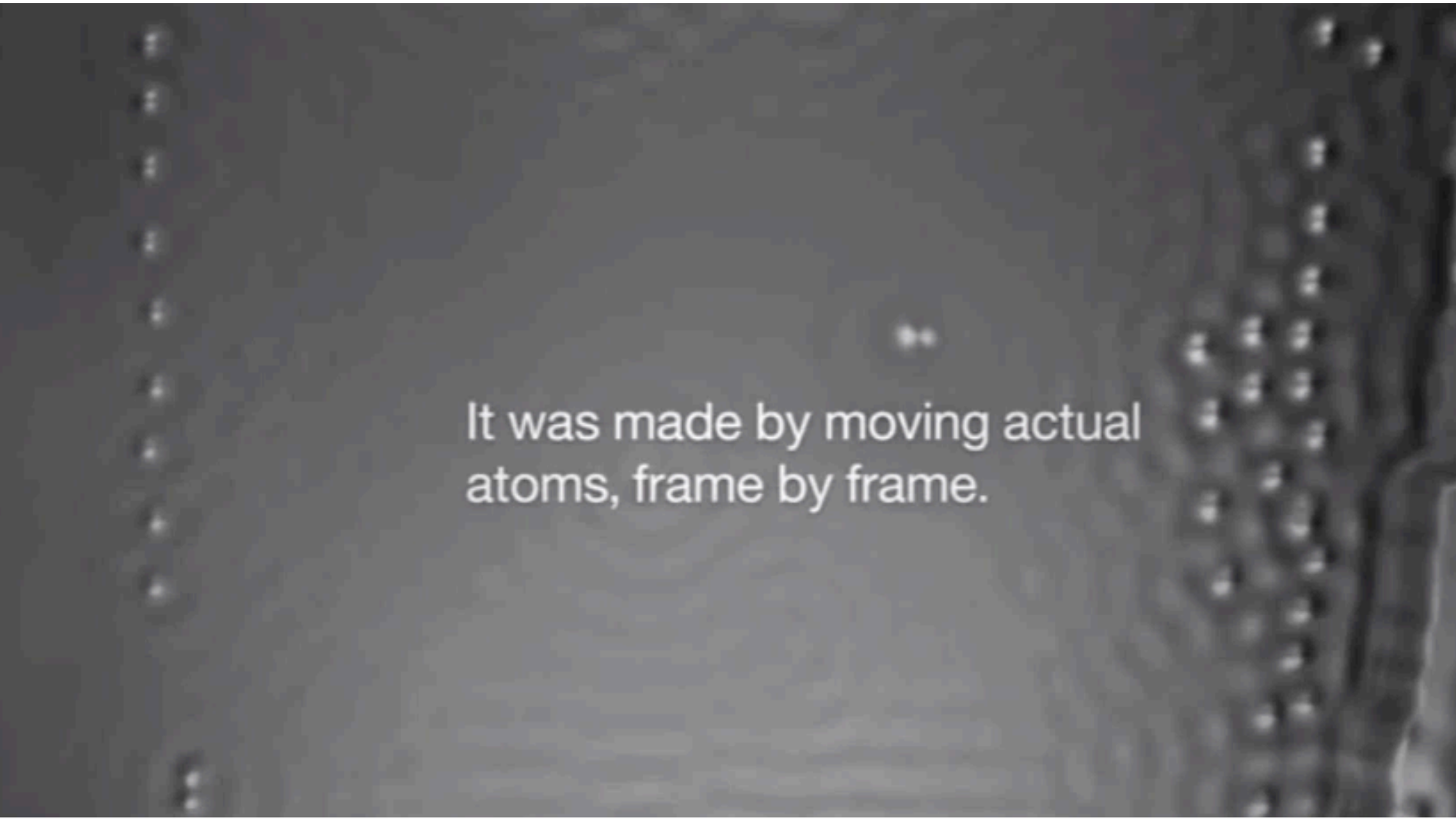
MarkIII(k) Planetary Gear

Description:
This is the MarkIII(k), a nanoscale planetary gear designed by K. Eric Drexler. A planetary gear couples an input shaft via a sun gear to an output shaft through a set of planet gears (attached to the output shaft by a planet carrier). The planet gears roll between the sun gear and a ring gear on the inner surface of a casing. This animation was rendered with Qutemol by reading PDB files from a NanoEngineer-1 molecular dynamics simulation. A section of the casing atoms have been hidden to expose the internal gearing assembly.

Author:
K. Eric Drexler
Nanorex, Inc.

Read more...

SRG-Ic


It was made by moving actual
atoms, frame by frame.

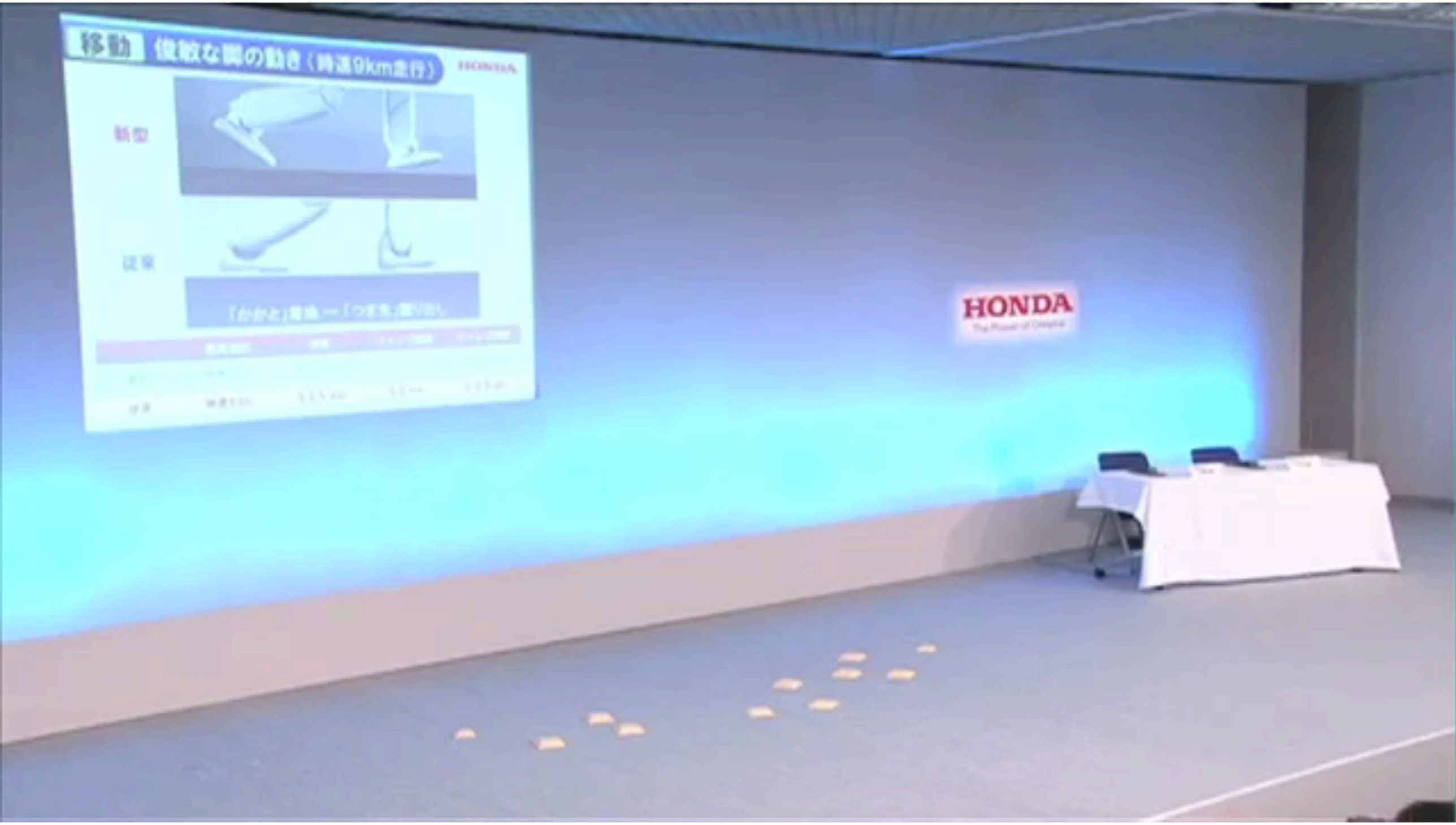

Com a Revolução Industrial

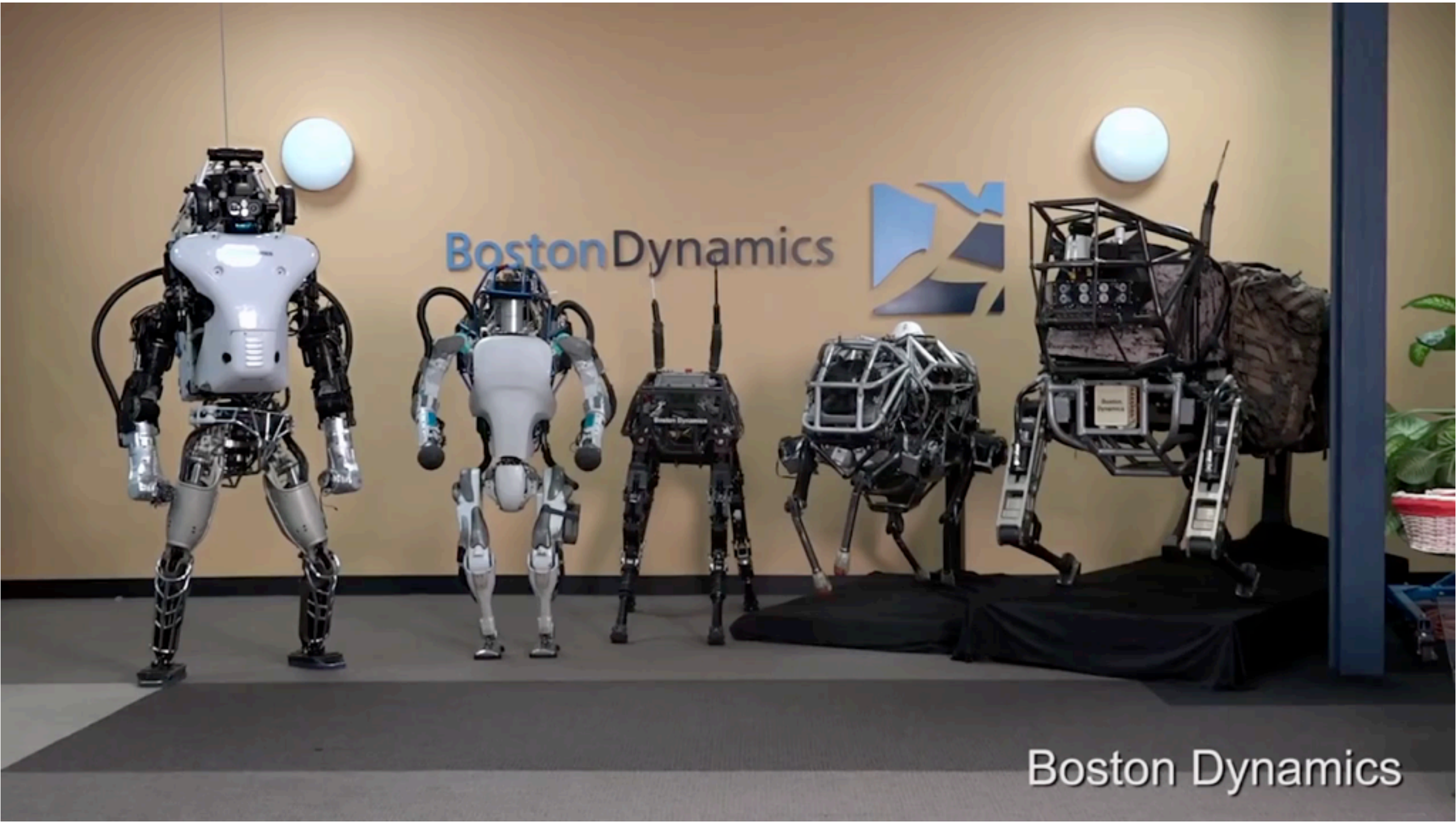
Robótica/Inteligência Artificial

Robôs e seus sistemas inteligentes

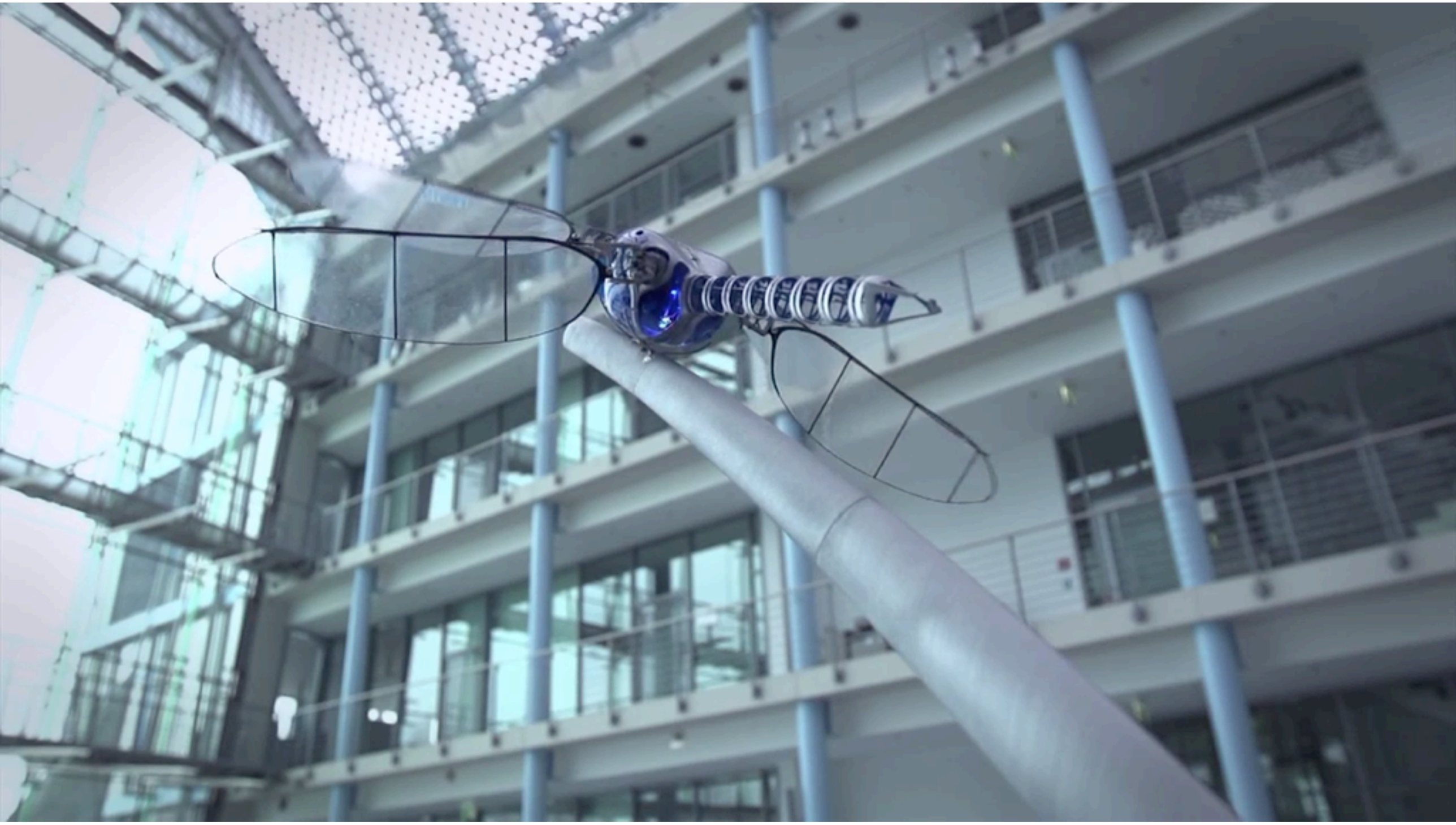
Robótica

Antropomórficos


移動
複数な脚の動き（時速9km走行）
HONDA
新型
従来
HONDA
The Power of Dreams


BostonDynamics
Boston Dynamics

Zoomórficos



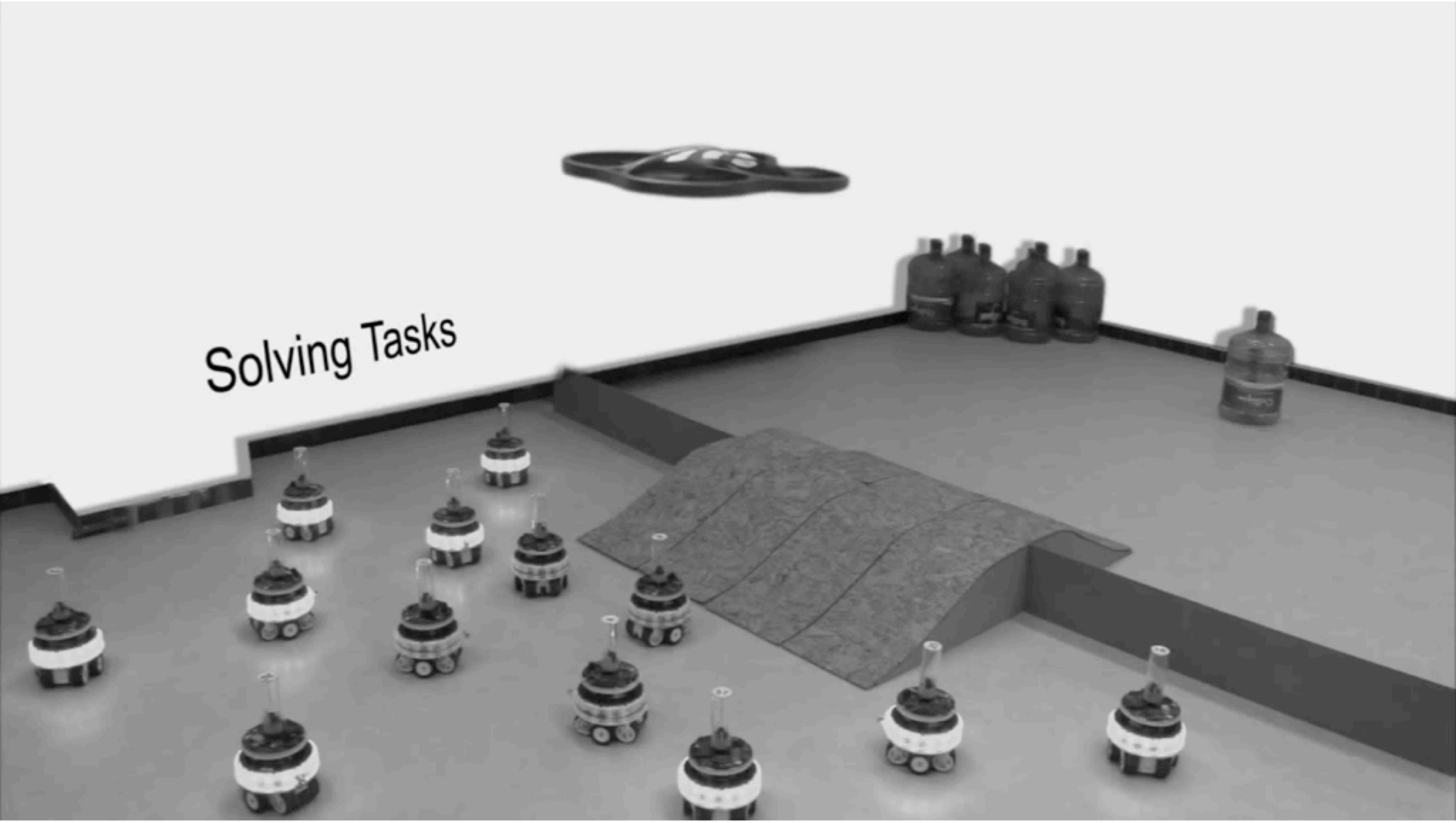
Cooperação robôs e humanos

Industrial Robots


SAMSUNG

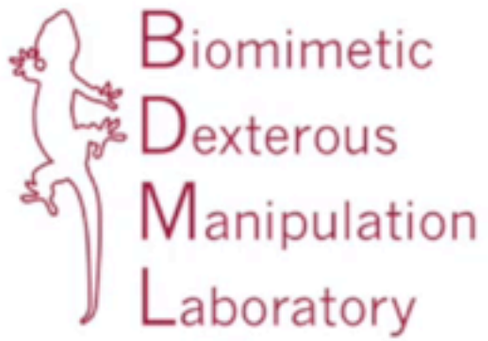
Companion Robots

Cooperação: robôs entre robôs


Solving Tasks

Let's All Pull Together: Principles for Sharing Large Loads in Microrobot Teams

D.L. Christensen, S.A. Suresh, K. Hahm and M.R. Cutkosky
Stanford University




to solve a common task

Auto regeneração

NewScientist

Auto organização

Grande número de organismos isolados de menor complexidade

Pequeno número de organismos conectados de maior complexidade

Inteligência Artificial

Atividades Criativas

Partner

Narrative Science

FOLLOW

Apr 24, 2015 | 23 views

Hospira Earnings Projected to Drop

Wall Street is expecting lower profit for Hospira when the company reports its first quarter results on Tuesday, April 28, 2015. Analysts are expecting earnings per share of 51 cents

Apr 24, 2015 | 109 views

Cliffs Natural Resources Expected to Report More Narrow Loss

Apr 24, 2015 | 67 views

Earnings for Genworth

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Artificial Intelligence. Human Insight. Real Results.

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August 31, 2012
Start-up turns data into plain English

PR Newswire
August 23, 2012
The CEC to Honor Glenn Tilton, Michael Ferro, and Three Growth Companies at the 2012 Momentum Awards Dinner

Investor's Business Daily
August 22, 2012
Narrative Science Turning Big Data Into Plain English

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Artificial Intelligence: The Answer to Wall Street's Data Deluge

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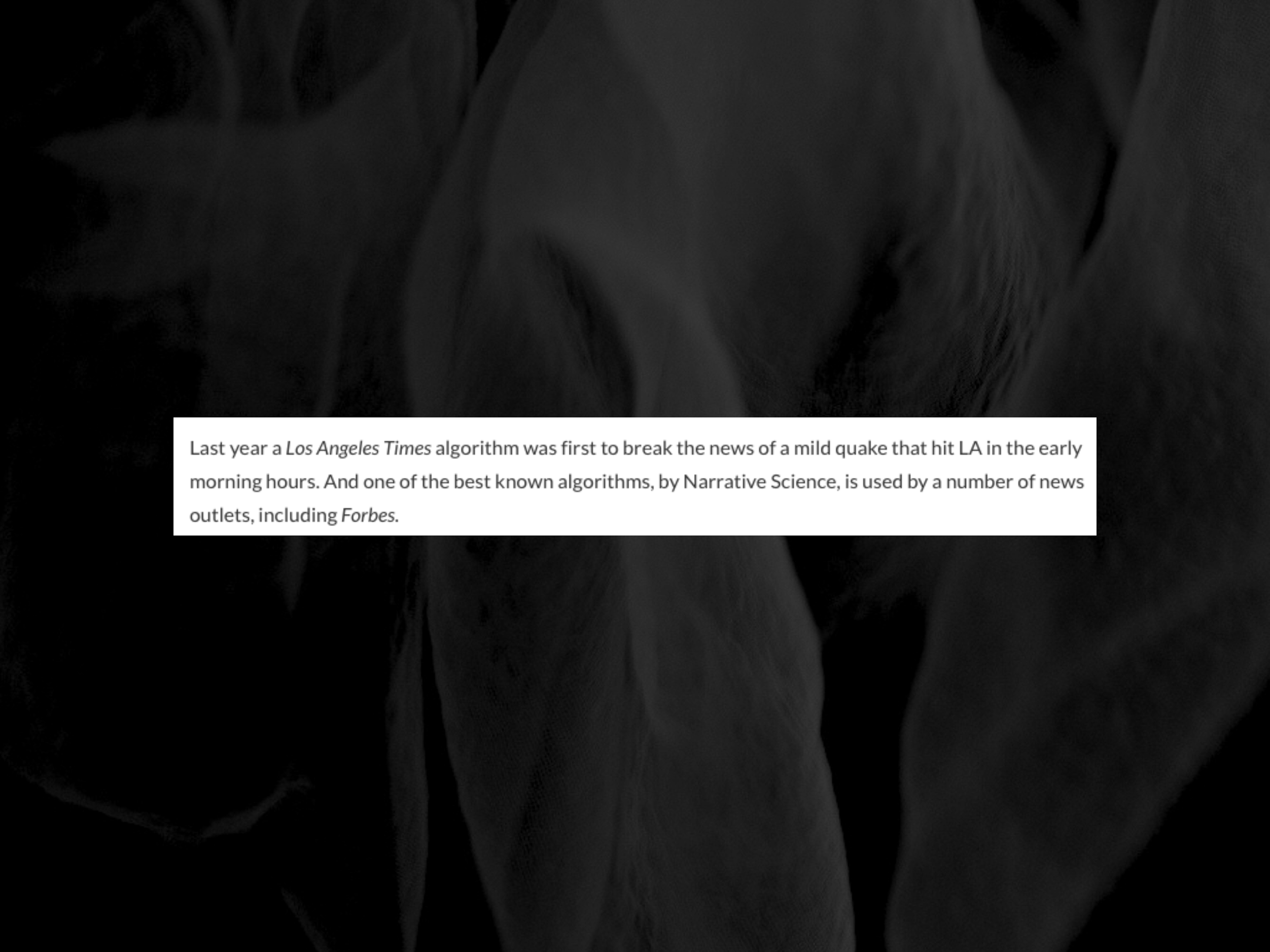
Ford Motor *reports its first-quarter earnings on Tuesday, April 28, 2015, and the consensus earnings per share estimate is 25 cents per share. Despite not changing over the past month, the consensus estimate is down from three months ago when it was 34 cents. For the fiscal year, analysts are expecting earnings of $1.59 per share. Analysts project revenue to fall 5% year-over-year to $33.92 billion for the quarter, after being $35.88 billion a year ago. For the year, revenue is expected to come in at $142.36 billion.*



Last year a *Los Angeles Times* algorithm was first to break the news of a mild quake that hit LA in the early morning hours. And one of the best known algorithms, by Narrative Science, is used by a number of news outlets, including *Forbes*.

Home (Improbable Blog)

What is Improbable Research?

Ig Nobel Prizes
- About the Igs
- 2013 Ceremony
- The Winners
- Archive

Publications
- Magazine (Annals of Improbable Research)
- Newsletter (mini-AIR)
- Newspaper column
- Classics

Improbable TV

Events Schedule
- Some Past Events

Press Clips

Luxuriant Hair Clubs for Scientists

Store

Info / Contact Us

« Archiving piano music for lett nanders

Another Possible Use, to the Elephant, of Elephant Hair »

Horrors: 'Art' in Artificial (Intelligence) Poetry

William Topaz McGonagall who died in 1902, is widely regarded as the writer of the worst poetry in the English language. As an example, see this video featuring Terry Jones (of Monty Python fame) interpreting them poem *'Stirling Castle'*.

artificial intelligence poetry – Pesquisa Google

A casa transformada pelo relâmpago

Alcovas equilibradas a sufocar

Esta terra insaciável de um planeta, a Terra

Atacada por chifres mecânicos

Porque te amo, te amo em fogo e vento

Você diz, qual é o tempo de espera para a sua mola?

Eu lhe digo, está à espera do ramo que flui

Porque você é a arquitetura do olente diamante

Que não sabe por que ele cresce.

William Shakespeare, 1611

Computer Program Recognizes Sarcasm

DiscoveryNews. By EMILY SOHN
May 30, 2010

Sarcasm is a useful way to blunt the impact of criticism by adding a twist of snide humor, as in this recent tweet: "Really love when the scope of a project I've been working on for a week changes in 10 min #sarcasm."

Without the help of a hash tag, though, people often miss the irony, especially when it's delivered online, where there are no contextual hints or social cues. To cut through the confusion, researchers have developed a computer program that can identify sarcasm in online communities with an accuracy rate of about 80 percent.

While there is still a long way to go before computers will be able to understand all the subtleties of humor, the new work might, among other

The Metacreation project is not the only example of advances in artificial intelligence (AI). David Cope's Experiments in Musical Intelligence (EMI) is a software system that analyzes existing music, and then generates original compositions in the same style.


Live synchronization

Media Decoder

Behind the Screens, Between the Lines

Search This Blog | Search

Previous Post
'Bad' Pizza Is Subject of New Domino's Spot

Next Post
Time Warner Cable and Disney Are Near a Deal on Fees

August 27, 2010, 4:20 pm | 52 Comments

Don't Tell the Creative Department, but Software Can Produce Ads, Too

By STUART ELLIOTT

FOLLOW THIS BLOG | Twitter | RSS

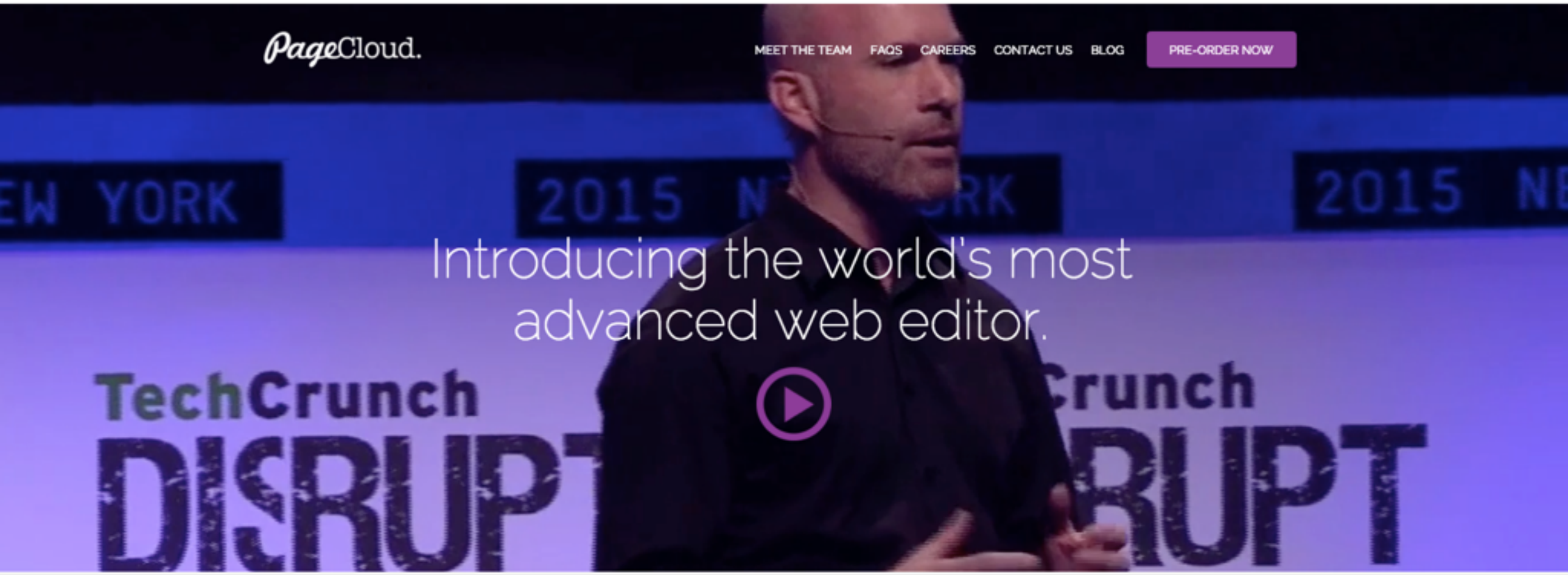
The Music Wouldn't Play

AC/DC's There, So *Now* Who Can't You Find on iTunes?

Steadily over the years, the big names in music have come to terms with iTunes, including Led Zeppelin, and, in 2010, the Beatles. Recently, AC/DC agreed to sell its music there. Still, you won't find Garth Brooks and others. Whose music have you looked for, unsuccessfully, on iTunes? Who should Apple be coming to terms with next?

· Share your thoughts here.

Launching November 30th — Act now and take advantage of discounted pricing before it's too late



Features you won't find anywhere else.

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Short title space

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Long title space, long title space, long title space, log title space

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Untitled

Sheets

Guest List

Guest List

Budget

Task List

Styles

Basic

Basic (No Grid)

Gray

Gray Headers

Gray Fill

Beige

Ledger

Blue

Blue Headers

Blue Fill

Event Planner

Red & white will accent the ceremony & receptions.

Will have the ceremony outside, and the reception in the banquet hall.

Guest List

Phone	Email	Total in party	RSVP	Notes
(123)456-7890	no_reply@apple.com	3	✓	
(123)456-7890	no_reply@apple.com	4	✓	
(123)456-7890	no_reply@apple.com	2	✓	
(123)456-7890	no_reply@apple.com	3	✓	
		Total	12	

Address Book.

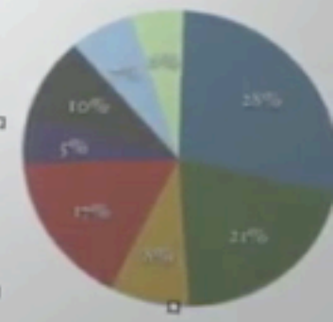
Budget

Per Person Cost	Fixed Costs	Total Cost
$150.00	$1,500.00	$3,300.00
	$2,500.00	$2,500.00
	$1,000.00	$1,000.00
	$2,000.00	$2,000.00
	$600.00	$600.00
$45.00	$800.00	$1,140.00
$25.00	$500.00	$800.00
$55.00		$660.00
		$12,000.00

Task List

Tasks	Notes
sit location	Bring bridesmaids for their fittings as well
it fitting	Groom and ushers
ck out flowers	
ake tasting	
ck up suit	

100%

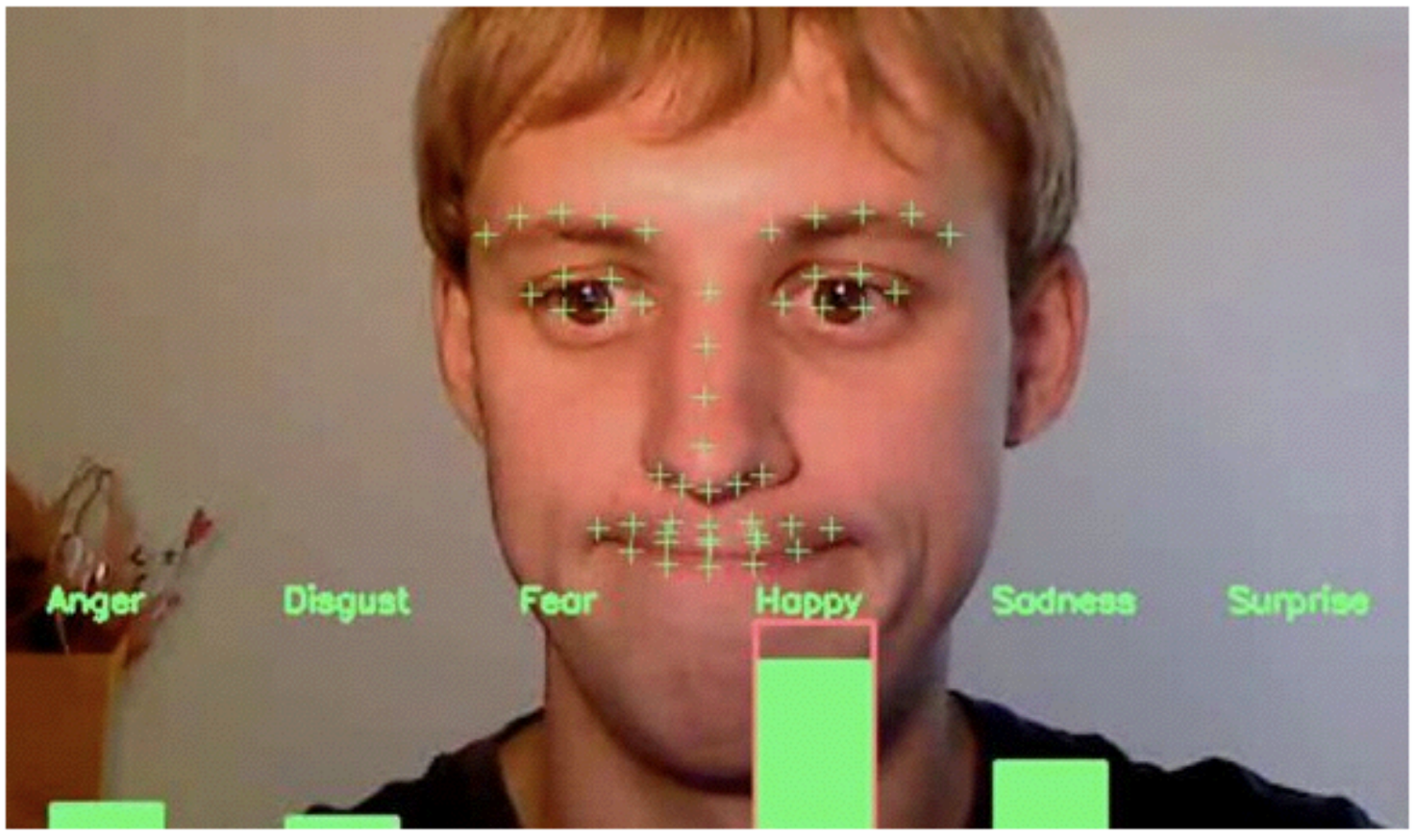


Isso é criativo?

Critério

Written By: Jason Dorrier
Posted: 07/6/13 12:41 PM

REALEYES EMOTION DETECTION SOFTWARE KNOWS HOW YOU'RE FEELING ABOUT THEIR CLIENTS' ADS



While some firms are using computer vision to empower factory robots, others are turning digital eyes on you and me to perfect the art of advertising, and an increasingly data-hungry ad industry is buying in.

Computer software accurately predicts pop song's chart success

By Sebastian Anthony on December 19, 2011 at 6:15 am | 2 Comments

By analyzing 50 years of the greatest music known to man, scientists from the University of Bristol, England have created software that can accurately predict whether a new chart entry will be a pop success — or not.

With an accuracy of 60%, the Bristolian formula can predict whether a song will be a smash hit and make it to the top five of the UK Top 40 Singles chart, or flop and never make it above position 30. To do this, a combination of computer hearing and machine learning; computer hearing to analyze a song's loudness, danceability, duration, and 20 other features that might predict a hit or flop, and machine learning to integrate the findings from a huge corpus of tunes that span five decades into some kind of magic formula that actually *works*.

Unlike previous attempts at understanding the success of pop music, which didn't work, the Bristolians used a different approach to increase accuracy. Basically, what constitutes a pop song changes over time; a harmonic song from the '60s probably wouldn't be a success in

SCOREAHIT

THE HIT EQUATION | EXPECTED HITS | UNEXPECTED HITS | HIDDEN GEMS | LIVE PREDICTIONS | RESULTS | APP

Gnarls Barkley - Crazy (#1 in 2006)

Yet again the features which our predictor says are important are danceability, energy and loudness. These factors propelled Gnarls Barkley to number 1 in 2006 for 6 weeks, setting various records along the way.

BLOG

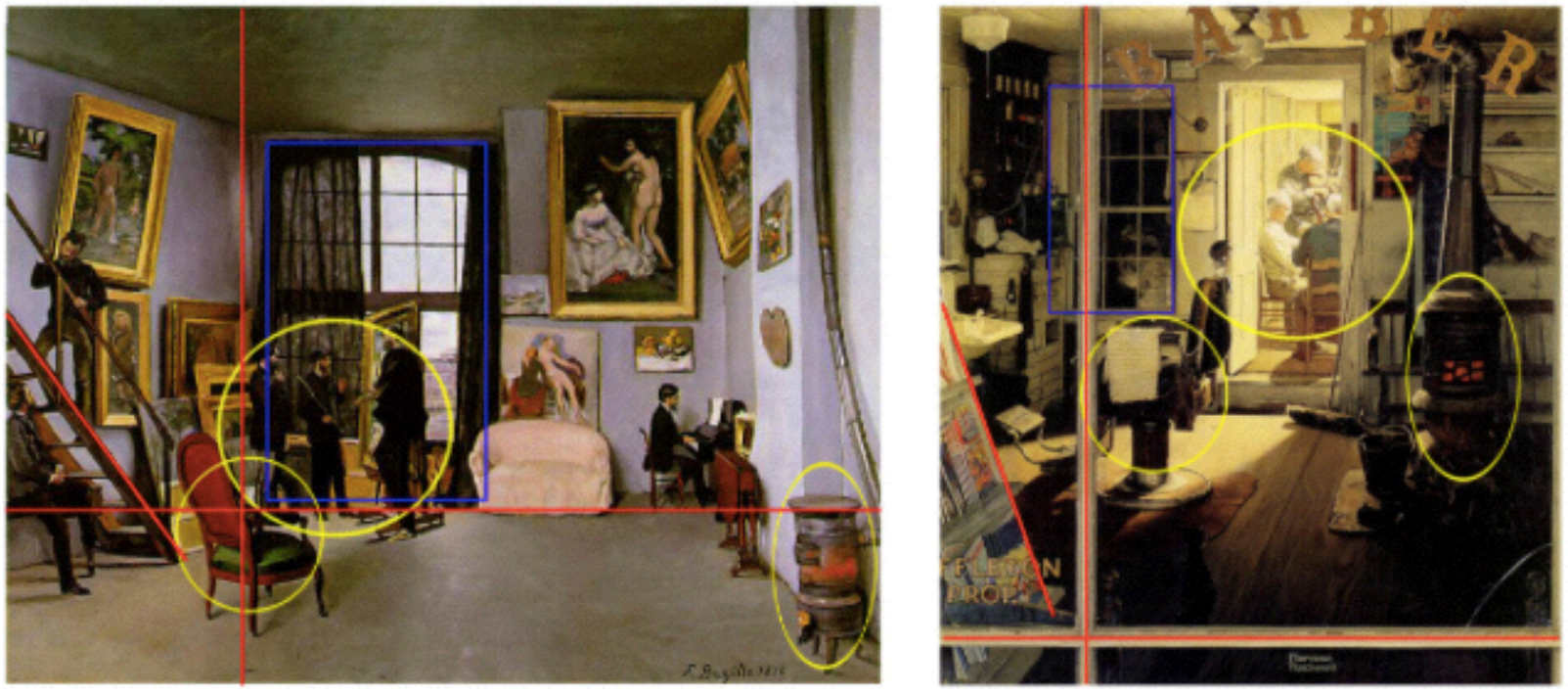
An Intelligent Algorithm Made A Discovery That Slipped Past Art Historians For Years

By Zach Sokol — Aug 26 2014

Vincent van Gogh's Old Vineyard With Present Woman (1890) and Joan Miro's The Farm (1922)

Could a computer program influence how we understand art history and the canon? Or, could an artificially intelligent algorithm do the work of art experts for them? A recent researcher project doesn't quite suggest such a reality, but it does demonstrate that machines can highlight subtleties within arts and culture that humans have previously never noticed.

Secondly, the machines were able to recognize similarities between paintings that had similar imagery, but very different styles, such as Vincent van Gogh's *Old Vineyard With Present Woman* (1890) and Joan Miro's *The Farm* (1922). Also worth adding is that their algorithms identified artistic influences that corroborate with expert opinions, such as Klimpt being influenced by Picasso and Braque.



Frederic Bazille's Studio 9 Rue de la Condamine (1870) and Norman Rockwell's Shuffleton's Barber Shop (1950).

O critério humano é substituível?

Arte/inspiração

What If

Interação AI vs. AI


DELL
SAMSUNG
Artificial Intelligence
A Modern Approach
Russell
Norvig

AI vs. AI. Two chatbots talking to each other

CornellCCSL · 13 vídeos

Inscrever-se 1.538

3.602.803

26.988 322

Gostei

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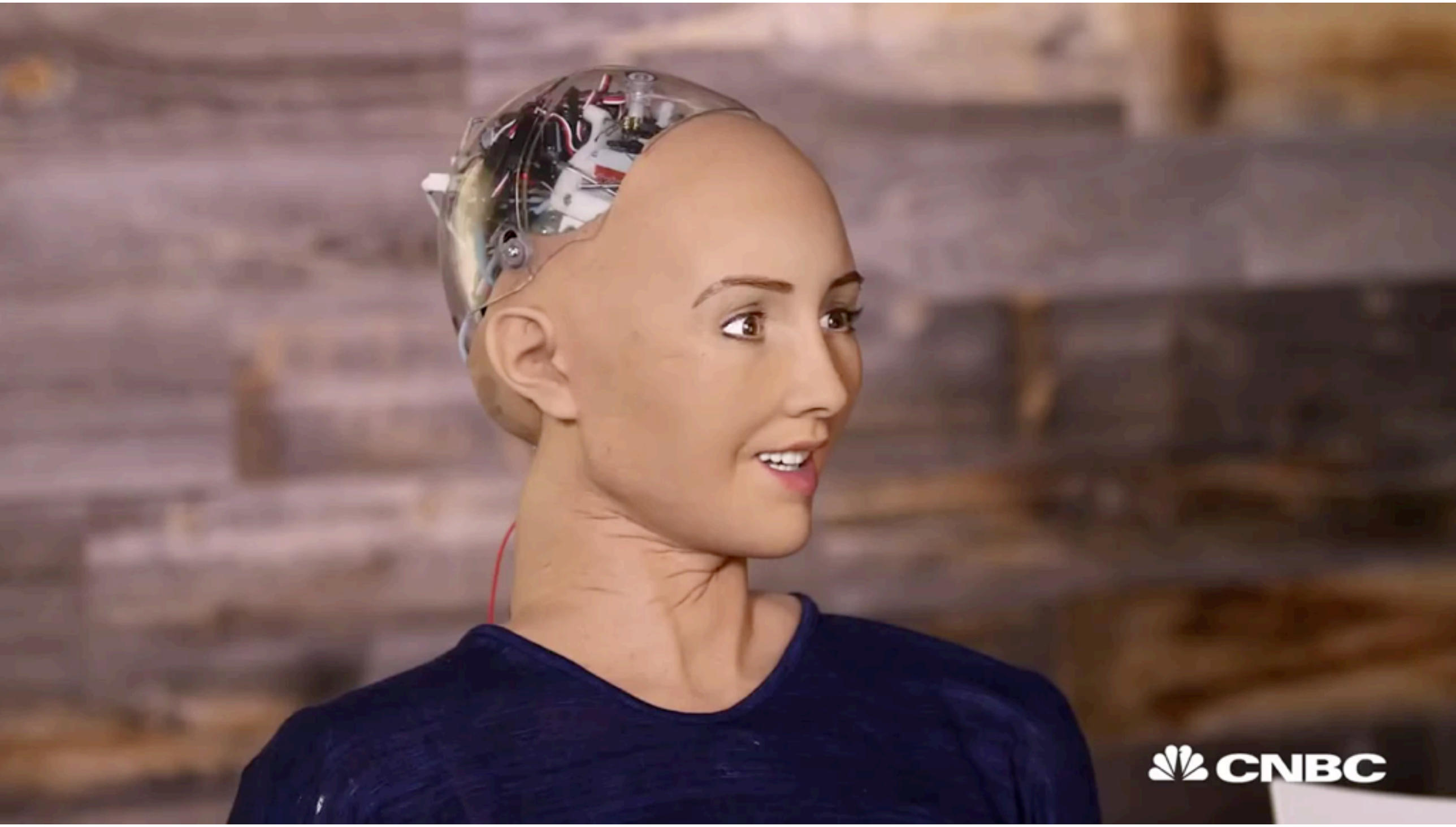
Enviado em 26/08/2011

Are you a Robot or a Unicorn? Let the world know:
http://yosinski.com/IAmAUnicorn/

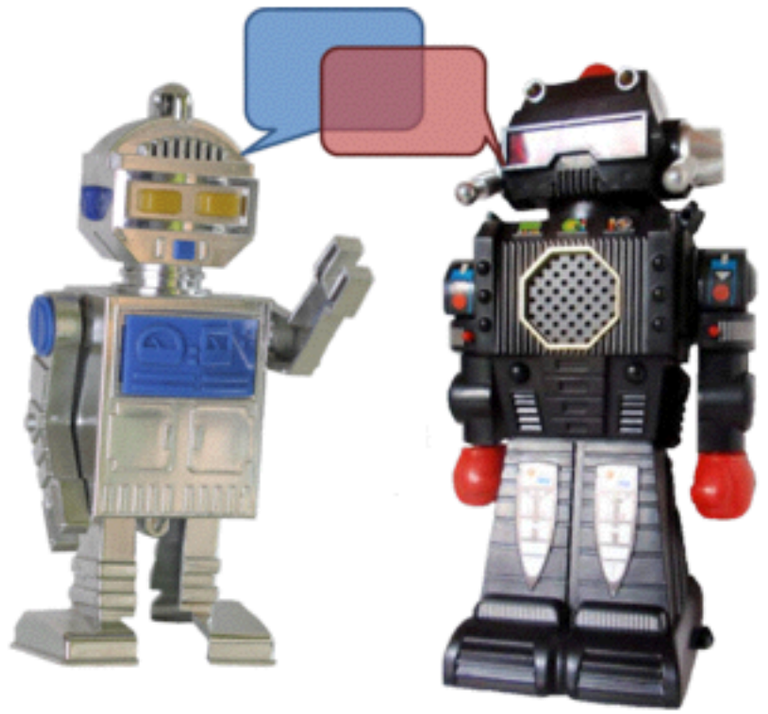

CNBC

March 26, 2013

➜ Robots Learn to Talk to Each Other

"As I gaze in the coming year's crystal ball," writes Miranda Mulligan, "I suspect that, at this time next year, we will be talking about 2013 being the rise of the robot." ["The Rise of the Robot," Harvard University's Nieman Journalism Lab, 19 December 2012] On the other hand, George Dvorsky reports that instead of us talking about robots, robots may be talking about us. ["Robots can now collaborate over their very own Internet," io9, 11 March 2013] He writes:

> "One of the more serious limitations facing the robotics industry today is that each bot it produces is an island unto itself. Worse, robots' primitive AI doesn't allow for intuitive thinking or problem solving — what's known as artificial general intelligence. Looking to overcome this problem, researchers from several different European universities have developed a cloud-computing platform for robots that will allow them to collaborate — and make each other smarter — over the Internet."



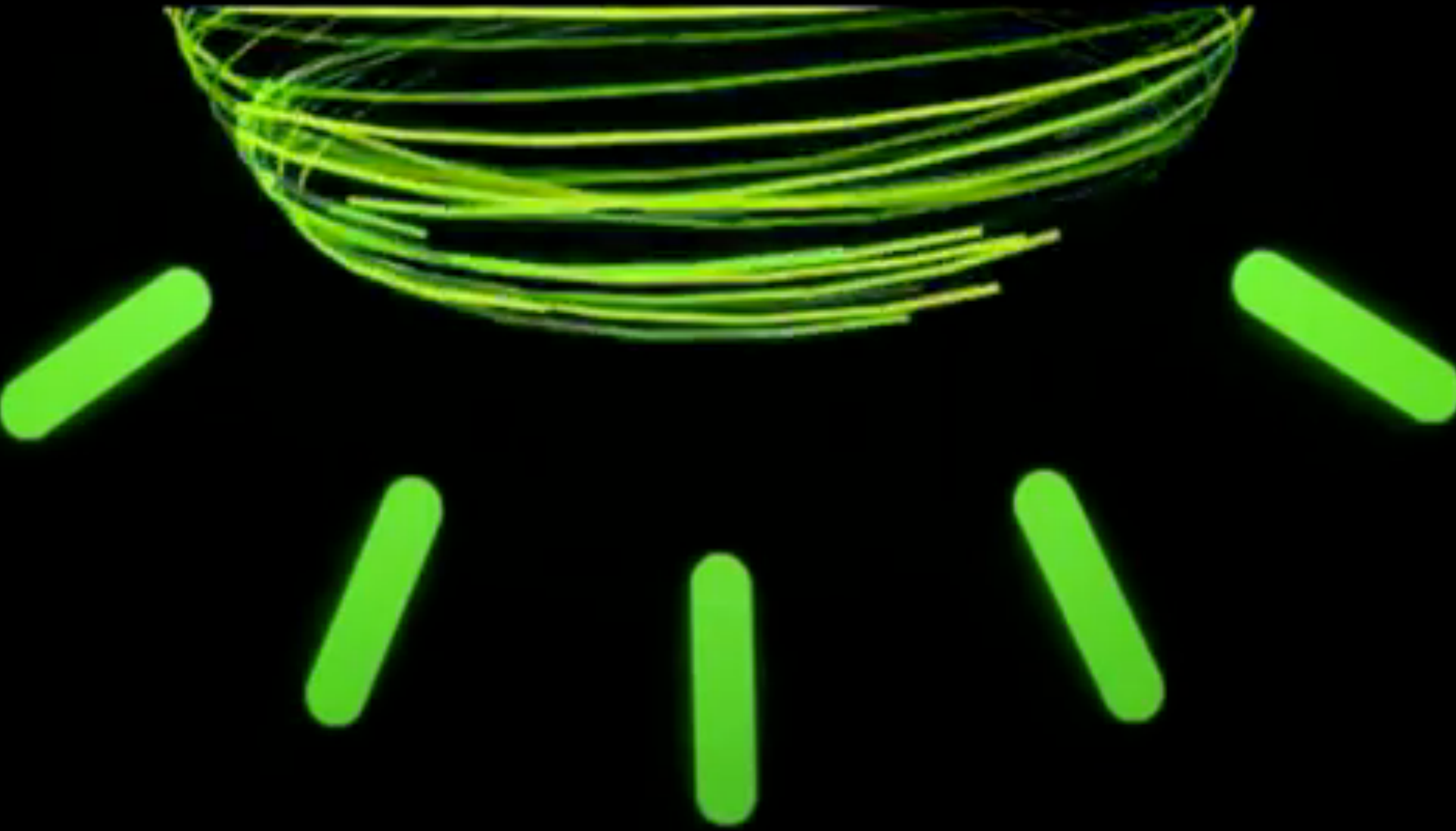
Machine-to-machine (M2M) communication is predicted to grow faster than human communication in the years ahead (see my post entitled Machine-to-Machine Communication). The new cloud-computing platform discussed by Dvorksy is "called Rapyuta: The RoboEarth Cloud Engine." It "is an open source repository of accumulated information for robots. Its name is taken from the movie *Castle in the Sky* by Hayao Miyazaki, in which Rapyuta is the castle inhabited by robots." Dvorsky included the following video as part of his article, which explains why cloud computing is essential if robots are going to get smarter.

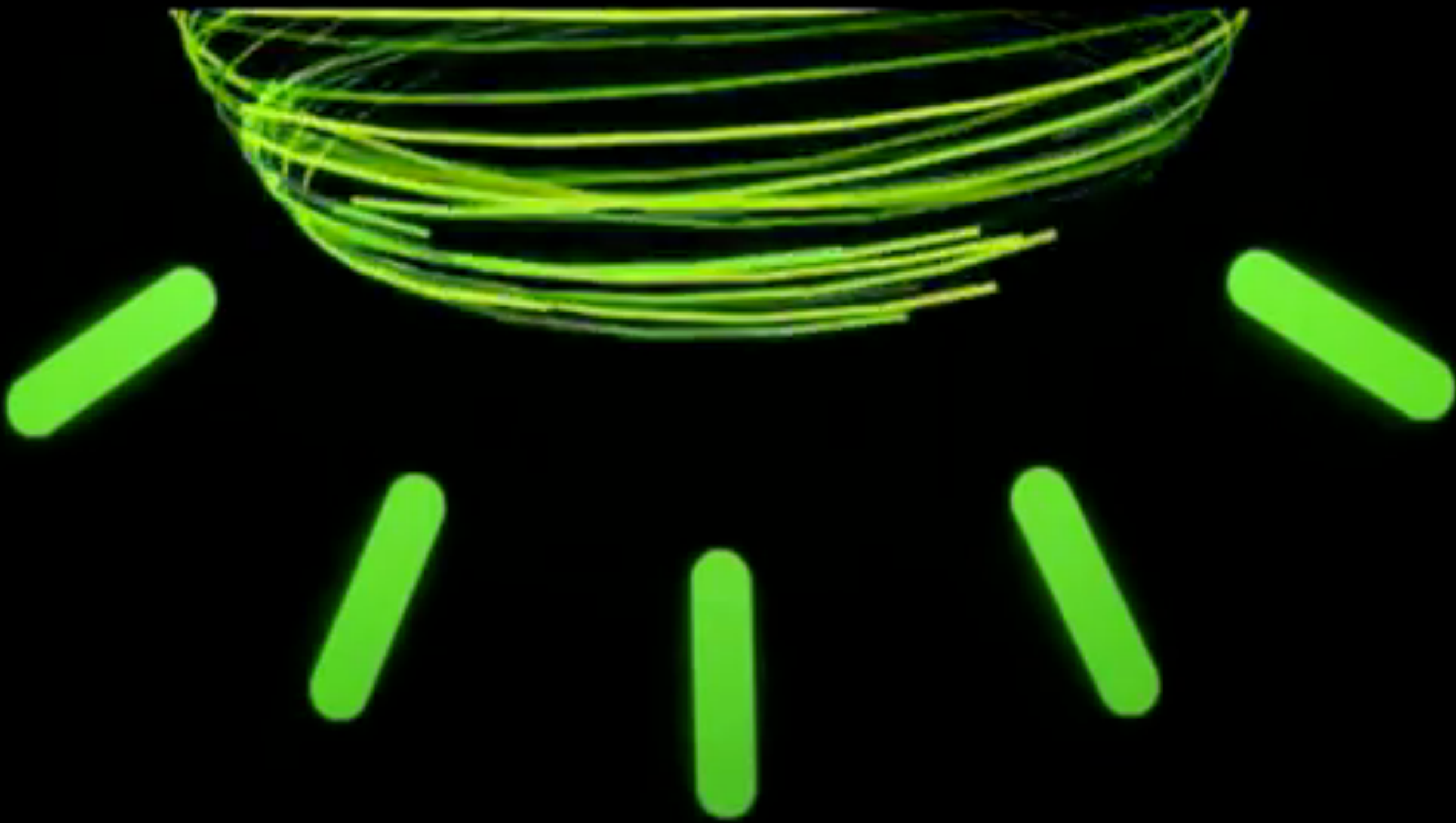
Lingodroid Robots Invent New Words for Time

By Evan Ackerman

Posted 23 May 2012 | 13:10 GMT


Lingodroids playing a location language game





Meet Ross, the IBM Watson-Powered Lawyer

How IBM transformed Watson into healthcare resource

February 23, 2015 12:41 pm by Stephanie Baum | 0 Comments

There's an interesting article in USA Today this week about how IBM approach to its Watson division led to it playing a critical role in making big data less unwieldy, supporting digital health startups and becoming a resource for the healthcare industry. Not bad for a computer brain that got its start as a Jeopardy contestant.

Mike Rhodin, who heads up IBM Watson, did the interview from the University of Michigan where he was scheduled to speak to a couple of entrepreneur groups. He noted that the freedom the Watson team had within IBM was key.

"What's important about the way we incubated Watson initially was that we isolated it. We gave them the freedom to operate as a startup; there really wasn't much marketing at first," Rhodin said.

Because it recognized that its technology had wide variety of applications in different industry sectors, it made its cloud-based platform available to start-ups to build their own applications. It's been just over one year since the launch of IBM Watson. Since its commercial launch, Watson Group has collaborated with partners to build 6,000 apps, the article notes.

Brinquedo baseado no supercomputador IBM Watson estreia no Kickstarter

por **BARBARA MANNARA**
Por barbara.mannara Para o TechTudo

Os brinquedos infantis estão cada vez mais inteligentes e pensando nisso a desenvolvedora Elemental Path resolveu incrementar seu novo produto com um supercomputador IBM Watson. Com formato de dinossauro T-Rex, mas bem amigável, os CogniToys permitem comunicações mais avançadas com os pequenos usuários como funções educacionais e até conversar de forma mais real.

Quer entrar na onda dos drones? Confira os modelos mais baratos no mercado

Substitui a relação entre as pessoas?

Open Source AI

CADE METZ BUSINESS 11.09.15 9:00 AM

GOOGLE JUST OPEN SOURCED TENSORFLOW, ITS ARTIFICIAL INTELLIGENCE ENGINE

LATEST NEWS

E se eles forem malvados?

Microsoft deletes 'teen girl' AI after it became a Hitler-loving sex robot within 24 hours

Computational Creativity

Genética/Molecular/Biotech
Nanotech
Robótica/Inteligência Artificial

MIT Technology Review

10 Breakthrough Technologies

- Immune Engineering
- Precise Gene Editing in Plants
- Conversational Interfaces
- Reusable Rockets
- Robots That Teach Each Other
- DNA App Store
- SolarCity's Gigafactory
- Slack
- Tesla Autopilot
- Power from the Air

MIT Technology Review

10 Breakthrough Technologies

Immune Engineering	*Genética/Molecular*
Precise Gene Editing in Plants	*Genética/Molecular*
Conversational Interfaces	*Robótica/Inteligência Artificial*
Reusable Rockets	*Robótica/Inteligência Artificial*
Robots That Teach Each Other	*Robótica/Inteligência Artificial*
DNA App Store	*Genética/Molecular*
SolarCity's Gigafactory	
Slack	
Tesla Autopilot	*Robótica/Inteligência Artificial*
Power from the Air	*Nanotecnologia*

10 Breakthrough Technologies 2014

Introduction

Agricultural Drones

Ultraprivate Smartphones

Brain Mapping

Neuromorphic Chips

Genome Editing

Microscale 3-D Printing

Mobile Collaboration

Oculus Rift

Agile Robots

Smart Wind and Solar Power

Archive of Past Lists

10 Breakthrough Technologies 2015

Introduction

Magic Leap

Nano-Architecture

Car-to-Car Communication

Project Loon

Liquid Biopsy

Megascale Desalination

Apple Pay

Brain Organoids

Supercharged Photosynthesis

Internet of DNA

Archive of Past Lists

10 Breakthrough Technologies 2014

Introduction

Robótica/AI	Agricultural Drones
Robótica/AI	Ultraprivate Smartphones
Genética/molecular	Brain Mapping
Genética/molecular	Neuromorphic Chips
Genética/molecular	Genome Editing
Nanotecnologia	Microscale 3-D Printing
Robótica/AI	Mobile Collaboration
Robótica/AI	Oculus Rift
Robótica/AI	Agile Robots
Robótica/AI	Smart Wind and Solar Power

Archive of Past Lists

10 Breakthrough Technologies 2015

Introduction

Magic Leap	*Robótica/AI*
Nano-Architecture	*Nanotecnologia*
Car-to-Car Communication	*Robótica/AI*
Project Loon	*Robótica/AI*
Liquid Biopsy	*Genética/molecular*
Megascale Desalination	*Genética/molecular*
Apple Pay	*Robótica/AI*
Brain Organoids	*Genética/molecular*
Supercharged Photosynthesis	*Genética/molecular*
Internet of DNA	*Genética/molecular*

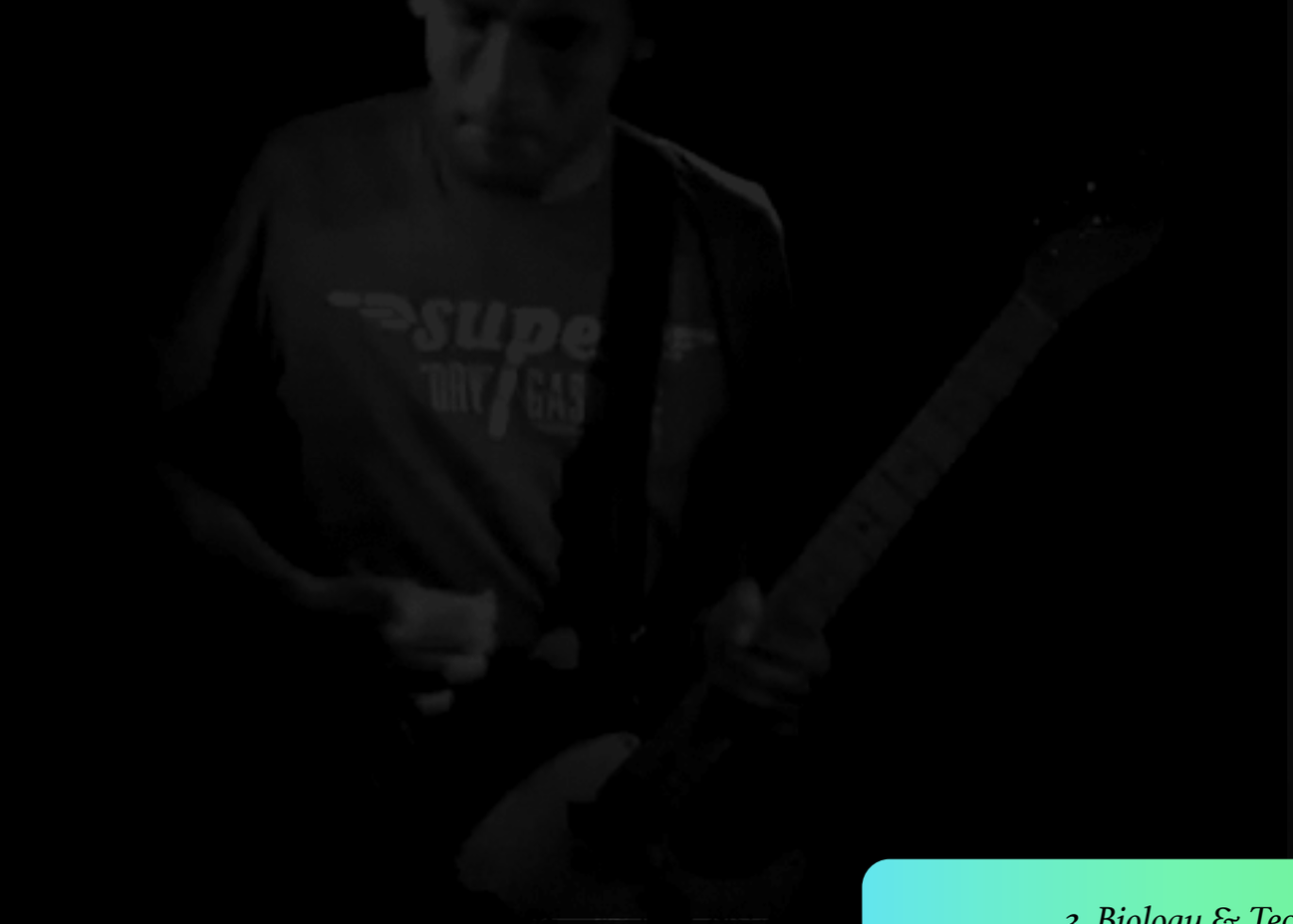
Archive of Past Lists

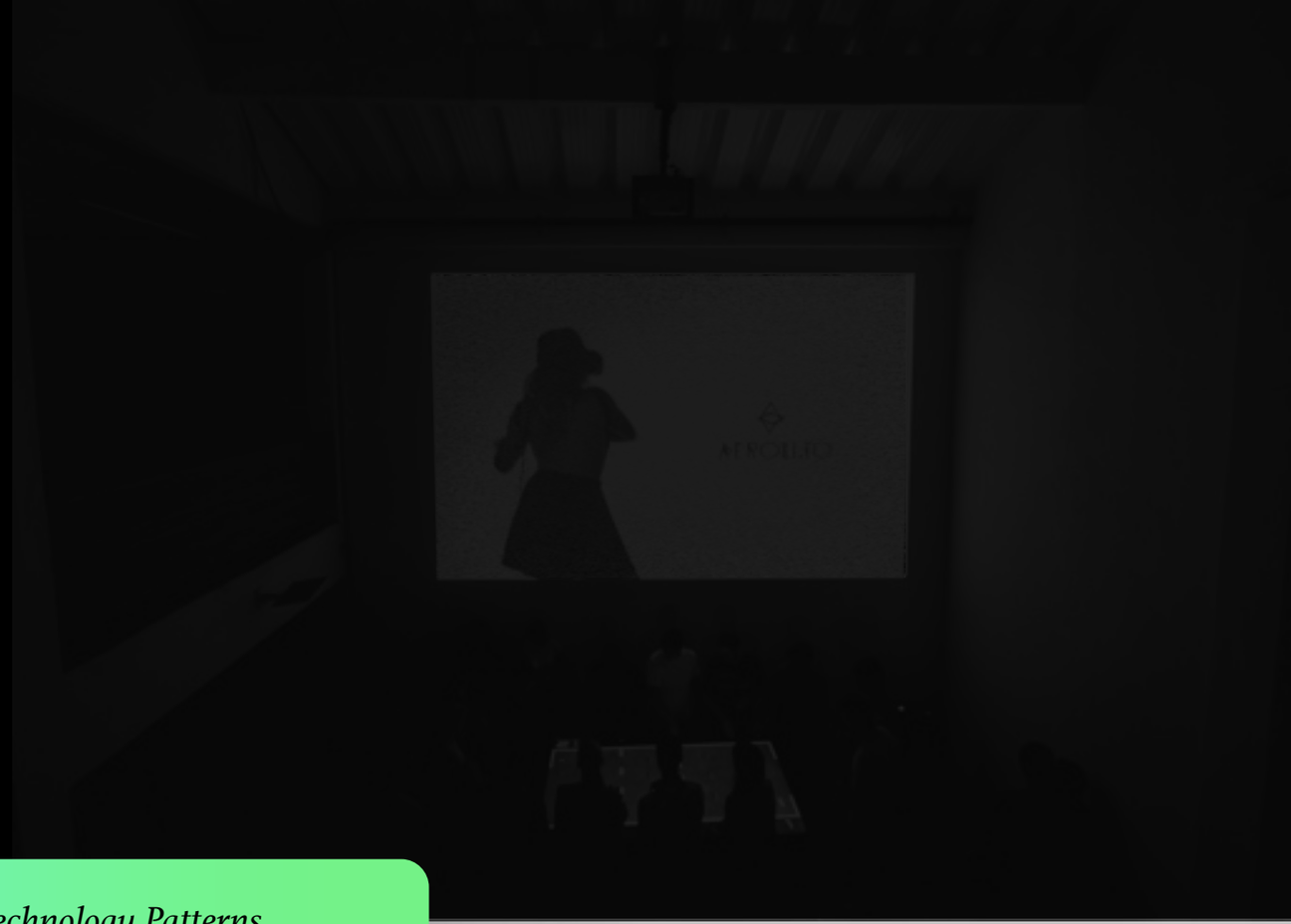
Reflexão.

Tudo termina bem.

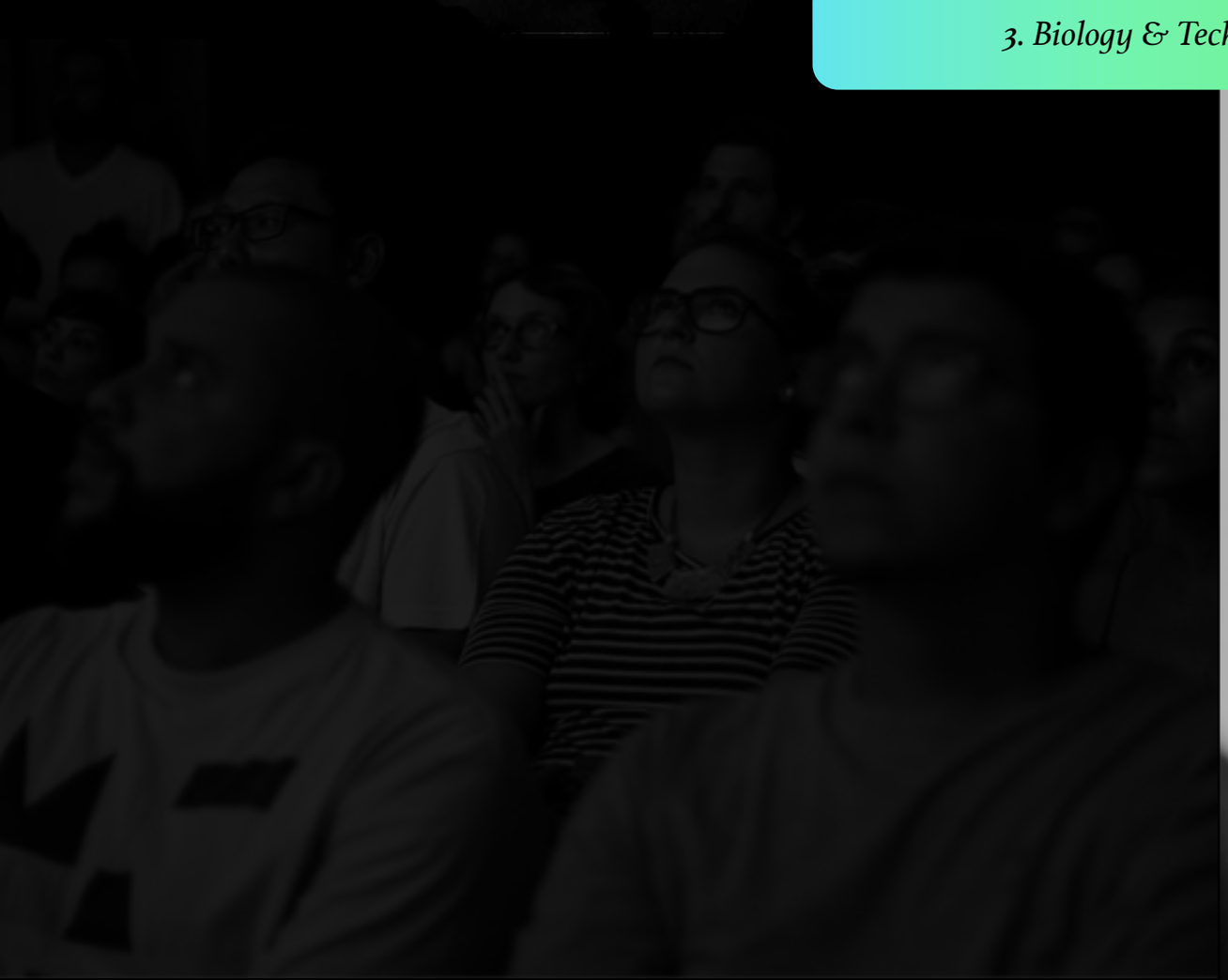
"FIRST WE BUILD THE TOOLS,
THEN THEY BUILD US."

Marshall McLuhan – Public Intellectual





3. Biology & Technology Patterns



Reflexão.

Seres vivos, robôs ou híbridos?


newsy


PVAMU
BROWN
MGH
nature video

Seres vivos, robôs ou híbridos?

Reflexão: só existe preto e branco?

Homens

vs.

Robôs

Homens

+

Robôs

Google
Brasil

Pesquisa Google Estou com sorte


99
TAXIS
NETFLIX

Metaforicamente, somos híbridos.

Literalmente, alguns de nós já são híbridos.

Barcelona clubbers get chipped

BBC Science producer Simon Morton goes clubbing in Barcelona with a microchip implanted in his arm to pay for drinks.


Having the chip inserted was a breeze

Imagine having a glass capsule measuring 1.3mm by 1mm, about the size of a large grain of rice injected under your skin.

Implanting microchips that emit a Radio Frequency Identification (RFID) into animals has been common practice in many countries around the world, with some looking to make it a legal requirement for domestic pet owners.

The idea of having my very own microchip implanted in my body appealed. I have always been an early adopter, so why not.

Last week I headed for the bright lights of the Catalan city of Barcelona to enter the exclusive VIP Baja Beach Club.

The night club offers its VIP clients the opportunity to have a syringe-injected microchip implanted in their upper arms that not only gives them special access to VIP lounges, but also acts as a debit account from which they can pay for drinks.

This sort of thing is handy for a beach club where bikinis and board shorts are the uniform and carrying a wallet or purse is really not practical.

Experimentalmente, ainda mais híbridos.

PERESTROIKA @SINGULARITYU

ELISHAI EZRA


But I'm going to take you, right up to date,


And that is, when you think of a robot,

E se formos apenas zeros e uns?

The leading health and ancestry DNA service

sign in | register kit | 0

23andMe

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- Get updates on your DNA as science advances

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My Home
Inbox (1)

My Health
Disease Risk
Carrier Status
Drug Response
Traits
Health Labs

My Ancestry
Maternal Line
Paternal Line
Relative Finder
Ancestry Painting
Global Similarity
Ancestry Labs

Sharing & Community
Family Tree
Family Inheritance
Compare Genes
23andMe Community
Genome Sharing

23andWe
Research Surveys (37)
Research Snippets
Research Initiatives
Research Discoveries

health overview

Print my health overview | Share my health results

To ensure that the information on this page is as accurate as possible, please set your ancestry on your profile page.

Show results for Michael Jordan

See new and recently updated reports »

23andWe Discoveries were made possible by 23andMe members who took surveys.

Disease Risks (118)

Elevated Risks	Your Risk	Average Risk
Type 2 Diabetes	41.7%	25.7%
Prostate Cancer ♂	21.4%	17.8%
Rheumatoid Arthritis	3.2%	2.4%
Ulcerative Colitis	1.0%	0.8%
Esophageal Squamous Cell Carcinoma (ESCC)	0.6%	0.4%

See all 118 risk reports...

Carrier Status (48)

Alpha-1 Antitrypsin Deficiency	Variant Present
Agenesis of the Corpus Callosum with Peripheral Neuropathy (ACCPN)	Variant Absent
Autosomal Recessive Polycystic Kidney Disease	Variant Absent
ARSACS	Variant Absent
Beta Thalassemia	Variant Absent
Bloom's Syndrome	Variant Absent
BRCA Cancer Mutations (Selected)	Variant Absent
Canavan Disease	Variant Absent

See all 48 carrier status...

Traits (57)

Alcohol Flush Reaction	Does Not Flush
Bitter Taste Perception	Can Taste
Earwax Type	Wet
Eye Color	Likely Brown
Hair Curl	Slightly Curlier Hair on Average

Drug Response (20)

Abacavir Hypersensitivity	Typical
Alcohol Consumption, Smoking and Risk of Esophageal Cancer	Typical
Clopidogrel (Plavix®) Efficacy	Typical
Fluorouracil Toxicity	Typical

Health Labs

My Ancestry
Maternal Line
Paternal Line
Relative Finder
Ancestry Painting
Global Similarity
Ancestry Labs

Sharing & Community
Family Tree
Family Inheritance
Compare Genes
23andMe Community
Genome Sharing

23andWe
Research Surveys (37)
Research Snippets
Research Initiatives
Research Discoveries

Elevated Risk

Name	Confidence	Your Risk	Avg. Risk	Compared to Average
Type 2 Diabetes	★★★★	41.7%	25.7%	1.62x
Prostate Cancer ♂	★★★★	21.4%	17.8%	1.20x
Rheumatoid Arthritis	★★★★	3.2%	2.4%	1.34x
Ulcerative Colitis	★★★★	1.0%	0.8%	1.25x
Esophageal Squamous Cell Carcinoma (ESCC)	★★★★	0.6%	0.4%	1.57x
Celiac Disease	★★★★	0.4%	0.1%	3.76x
Stomach Cancer (Gastric Cardia Adenocarcinoma)	★★★★	0.4%	0.2%	1.80x
Abdominal Aortic Aneurysm	★★★			
Asthma	★★★			
Dupuytren's Disease	★★★			
Hay Fever (Allergic Rhinitis)	★★★			
High Blood Pressure (Hypertension)	★★★			
Hypothyroidism	★★★			
Male Infertility ♂	★★★			
Nasopharyngeal Carcinoma	★★★			
Neuroblastoma	★★★			
Parkinson's Disease: Preliminary Research	★★★			
Primary Biliary Cirrhosis: Preliminary Research	★★★			
Restless Legs Syndrome: Preliminary Research	★★★			
Schizophrenia	★★★			
Selective IgA Deficiency	★★★			
Stroke	★★★			

Typical Risk

Name	Confidence	Your Risk	Avg. Risk	Compared to Average
Obesity	★★★★	54.2%	63.9%	0.85x
Coronary Heart Disease	★★★★	41.6%	46.8%	0.89x
Atrial Fibrillation	★★★★	29.3%	27.2%	1.08x
Lung Cancer	★★★★	6.9%	8.5%	0.82x
Gallstones	★★★★	6.2%	7.0%	0.88x
Colorectal Cancer	★★★★	5.7%	5.6%	1.03x
Chronic Kidney Disease	★★★★	3.6%	3.4%	1.04x
Parkinson's Disease	★★★★	1.8%	1.6%	1.11x
Bipolar Disorder	★★★★	0.10%	0.10%	0.94x
Scleroderma (Limited Cutaneous Type)	★★★★	0.05%	0.07%	0.80x
Breast Cancer update	★★★★	0.00%	0.00%	1.00x
Lupus (Systemic Lupus Erythematosus)	★★★★	0.00%	0.00%	1.00x
Alopecia Areata	★★★			
Ankylosing Spondylitis	★★★			
Atopic Dermatitis	★★★			
Basal Cell Carcinoma	★★★			
Bipolar Disorder: Preliminary Research	★★★			
Bladder Cancer	★★★			
Brain Aneurysm	★★★			
Chronic Lymphocytic Leukemia	★★★			
Coronary Heart Disease: Preliminary Research	★★★			
Generalized Vitiligo	★★★			
Hodgkin Lymphoma	★★★			

Decreased Risk

Name	Confidence	Your Risk	Avg. Risk	Compared to Average
Venous Thromboembolism	★★★★	9.0%	12.3%	0.73x
Psoriasis	★★★★	5.8%	11.4%	0.51x
Alzheimer's Disease	★★★★	4.9%	7.2%	0.69x
Restless Legs Syndrome	★★★★	1.5%	2.0%	0.74x
Age-related Macular Degeneration	★★★★	0.9%	6.5%	0.14x
Type 1 Diabetes	★★★★	0.6%	1.0%	0.63x
Melanoma	★★★★	0.3%	2.9%	0.09x
Multiple Sclerosis	★★★★	0.2%	0.3%	0.69x
Exfoliation Glaucoma	★★★★	0.2%	0.7%	0.22x
Crohn's Disease	★★★★	0.09%	0.53%	0.17x
Primary Biliary Cirrhosis	★★★★	0.05%	0.08%	0.66x
Atrial Fibrillation: Preliminary Research	★★★			
Behçet's Disease	★★★			
Breast Cancer Risk Modifiers	★★★			
Chronic Obstructive Pulmonary Disease (COPD)	★★★			
Gout	★★★			
Kidney Cancer	★★★			
Migraines	★★★			
Nicotine Dependence	★★★			
Obesity: Preliminary Research	★★★			
Peripheral Arterial Disease	★★★			
Sarcoma	★★★			
Scoliosis	★★★			

drug response

To ensure that the information on this page is as accurate as possible, please set your ancestry on your profile page.

Show results for Michael Jordan

See new and recently updated reports »

23andWe Discoveries were made possible by 23andMe members who took surveys.

Name	Confidence ▾	Status
Abacavir Hypersensitivity	★★★★	Typical
Alcohol Consumption, Smoking and Risk of Esophageal Cancer	★★★★	Typical
Clopidogrel (Plavix®) Efficacy	★★★★	Typical
Fluorouracil Toxicity	★★★★	Typical
Response to Hepatitis C Treatment	★★★★	Typical
Pseudocholinesterase Deficiency	★★★★	Typical
Warfarin (Coumadin®) Sensitivity	★★★★	Typical
Oral Contraceptives, Hormone Replacement Therapy and Risk of Venous Thromboembolism ♀	★★★★	Not Applicable
Caffeine Metabolism	★★★	Slow Metabolizer
Hepatitis C Treatment Side Effects	★★★	See Report
Metformin Response	★★★	Typical Odds of Positive Response
Antidepressant Response	★★	See Report
Beta-Blocker Response	★★	See Report
Floxacillin Toxicity	★★	Typical Odds
Heroin Addiction	★★	Typical Odds
Lumiracoxib (Prexige®) Side Effects	★★	Typical Odds
Naltrexone Treatment Response	★★	See Report
Postoperative Nausea and Vomiting (PONV)	★★	Higher Odds

My Home
Inbox (1)

My Health
Disease Risk
Carrier Status
Drug Response
Traits
Health Labs

My Ancestry
Maternal Line
Paternal Line
Relative Finder
Ancestry Painting
Global Similarity
Ancestry Labs

Sharing & Community
Family Tree
Family Inheritance
Compare Genes
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disease risk

Next
Endometriosis

Dupuytren's Disease

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Your Data | Community (7)

Dupuytren's Disease

Printable Version

Dupuytren's disease (also known as Dupuytren's contracture) is a disorder in which the tissue under the skin on the hands thickens and forms knots or cords that eventually cause the fingers to curl up against the palm. The ring finger and pinky finger are most often affected. Dupuytren's disease is more common in men and in people over the age of 50. The prevalence of Dupuytren's ranges from less than 1% to as high as 40% in locations such as Scotland, Germany and Belgium. Its relatively high frequency in northern Europe has led it to be called a "Viking disease", though it is also fairly common in other regions. While the disorder is not usually painful, it can interfere with normal hand function, such as washing or putting on gloves. Treatment depends on the severity of the disease and includes surgical and non-surgical methods of removing or relaxing the cords of tissue in the hand.

The following results are based on ★★★ Preliminary Research for 6 reported markers.

Dupuytren's disease

Show results for all profiles

Journal	*N Engl J Med*
Study Size	●●●●
Replications	None
Contrary Studies	None
Applicable Ethnicities	European
Marker	rs7524102

In this study, researchers compared more than 2,000 individuals with Dupuytren's disease to about 10,000

Who	Genotype	What It Means
	GG	Moderately higher odds of developing Dupuytren's disease.
Michael Jordan	AG	Slightly higher odds of developing Dupuytren's disease.
	AA	Typical odds of developing Dupuytren's disease.

Dupuytren's disease

Show results for all profiles

Journal	*N Engl J Med*
Study Size	
Replications	None
Contrary Studies	None
Applicable Ethnicities	European
Marker	rs7524102

In this study, researchers compared more than 2,000 individuals with Dupuytren's disease to about 10,000 individuals without the disease, all of European descent. They found that each copy of a G at rs7524102 near the WNT4 gene was associated with 1.28 times the odds of Dupuytren's disease.

Who	Genotype	What It Means
	GG	Moderately higher odds of developing Dupuytren's disease.
Michael Jordan	AG	Slightly higher odds of developing Dupuytren's disease.
	AA	Typical odds of developing Dupuytren's disease.

Citations

Dolmans GH et al. (2011) . "Wnt signaling and Dupuytren's disease." *N Engl J Med* 365(4):307-17.

Dupuytren's disease

Show results for all profiles

Journal	*N Engl J Med*
Study Size	
Replications	None
Contrary Studies	None
Applicable Ethnicities	European
Marker	rs16879765

In this study, researchers compared more than 2,000 individuals with Dupuytren's disease to about 10,000 individuals without the disease, all of European descent. They found that each copy of a T at rs16879765 in the EPDR1 gene was associated with 1.98 times the odds of

Who	Genotype	What It Means
	TT	Substantially higher odds of developing Dupuytren's disease.
Michael Jordan	CT	Moderately higher odds of developing Dupuytren's disease.
	CC	Typical odds of developing Dupuytren's disease.

Dupuytren's disease

Show results for all profiles

Journal	*N Engl J Med*
Study Size	
Replications	None
Contrary Studies	None
Applicable Ethnicities	European
Marker	rs16879765

In this study, researchers compared more than 2,000 individuals with Dupuytren's disease to about 10,000 individuals without the disease, all of European descent. They found that each copy of a T at rs16879765 in the EPDR1 gene was associated with 1.98 times the odds of Dupuytren's disease.

Who	Genotype	What It Means
	TT	Substantially higher odds of developing Dupuytren's disease.
Michael Jordan	CT	Moderately higher odds of developing Dupuytren's disease.
	CC	Typical odds of developing Dupuytren's disease.

Citations

Dolmans GH et al. (2011) . "Wnt signaling and Dupuytren's disease." *N Engl J Med* 365(4):307-17.

Dupuytren's disease

Show results for all profiles

Journal	*N Engl J Med*
Study Size	
Replications	None
Contrary Studies	None
Applicable Ethnicities	European
Marker	rs4730775

In this study, researchers compared more than 2,000 individuals with Dupuytren's disease to about 10,000 individuals without the disease, all of European descent. They found that individuals with the CC genotype at rs4730775 near the WNT2 gene had about 1.2 times higher odds of Dupuytren's disease compared to

Who	Genotype	What It Means
	CC	Slightly higher odds of developing Dupuytren's disease.
Michael Jordan	CT	Typical odds of developing Dupuytren's disease.
	TT	Slightly lower odds of developing Dupuytren's disease.

Dupuytren's disease

Show results for all profiles

Journal	*N Engl J Med*
Study Size	
Replications	None
Contrary Studies	None
Applicable Ethnicities	European
Marker	rs4730775

In this study, researchers compared more than 2,000 individuals with Dupuytren's disease to about 10,000 individuals without the disease, all of European descent. They found that individuals with the CC genotype at rs4730775 near the WNT2 gene had about 1.2 times higher odds of Dupuytren's disease compared to individuals with the CT genotype, and those with the TT genotype had about 1.2 times lower odds of Dupuytren's disease.

Who	Genotype	What It Means
	CC	Slightly higher odds of developing Dupuytren's disease.
Michael Jordan	CT	Typical odds of developing Dupuytren's disease.
	TT	Slightly lower odds of developing Dupuytren's disease.

Citations

Dolmans GH et al. (2011) . "Wnt signaling and Dupuytren's disease." *N Engl J Med* 365(4):307-17.

Dupuytren's disease

Show results for all profiles

Journal	*N Engl J Med*
Study Size	
Replications	None
Contrary Studies	None
Applicable Ethnicities	European
Marker	rs2912522

In this study, researchers compared more than 2,000 individuals with Dupuytren's disease to about 10,000

Who	Genotype	What It Means
Michael Jordan	AA	Typical odds of developing Dupuytren's disease.
	AG	Slightly lower odds of developing Dupuytren's disease.
	GG	Moderately lower odds of developing Dupuytren's disease.

Maternal Haplogroup: T2b5

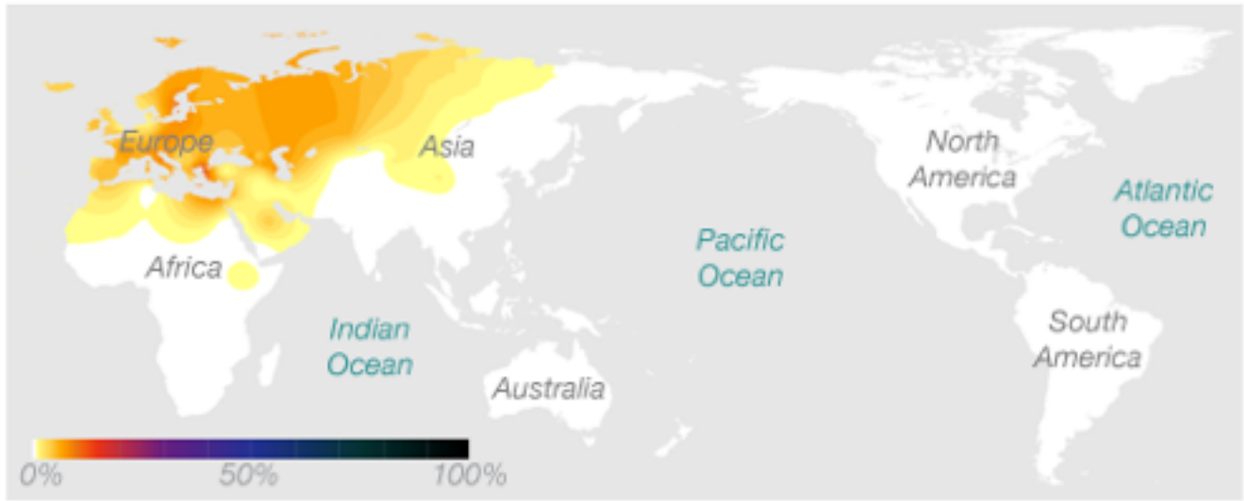
Share

Map | History | Haplogroup Tree | Community

Maternal Haplogroup: T2b5

T2b5 is a subgroup of T2, which is described below.

Locations of haplogroup T2 circa 500 years ago, before the era of intercontinental travel.



Haplogroup T originated about 45,000 years ago in the Near East, as modern humans first expanded out of eastern Africa. Its present-day geographic distribution is strongly influenced by multiple migrations out of the Near East into Europe, India and eastern Africa after about 15,000 years ago. T2 is widespread in northern Africa and Europe.

Human Prehistory Videos

Human Prehistory: Prologue

Out of (Eastern) Africa

-

Haplogroup: T2, a subgroup of T

Age: less than 33,000 years

Region: Europe, Near East

Populations: Northern Europeans, Spanish

Highlight: The outlaw Jesse James carried mitochondrial DNA from haplogroup T2.; Agriculture

Your Family and Friends

D4e2	Japanese Person
D5a2a'c	Chinese Person
L3e2b2	Nigerian Person
T2b5	Michael Jordan

Famous People

A2	Eva Longoria
C	Yo-Yo Ma
H	Luke the Evangelist, Marie Antoinette, Napoleon Bonaparte, Prince Philip, Susan Sarandon
H2a1	Dr. Oz
H3	Jimmy Buffett
H4a	Warren Buffett
J1	Mario Batali
K	Katie Couric, Meryl Streep, Stephen Colbert

relative finder

List view | Map view | Surname view

search matches | Show: both sides | Sort: relationship | 25 per page | 1 – 25 of 168

Male	You	T2b5 R1b1b2a1a	Update Your Profile
	Show Close Relatives		
Female	3rd to 5th Cousin 0.35% shared, 2 segments	U5b2b	Send an Introduction
Newton Campos Male, b. 1976	3rd to 6th Cousin 0.29% shared, 2 segments	Spain Brazil Rio de Janeiro, Brazil Sao Paulo, Brazil Corumba, Brazil 2 more Southern Europe Monteiro Campos Monteiro da Gama Rodrigues d'Oliveira 12 more B2 R1b1b2a1a	Public Match Send a Message
Male	3rd to 6th Cousin 0.25% shared, 2 segments	H T	Send an Introduction
Thais Melo Female, b. 1983	3rd to 6th Cousin 0.24% shared, 2 segments	United States Brazil Southern Europe Melo Mello Mehl Castanogli H10a1	Public Match Send a Message
Male	3rd to 6th Cousin 0.24% shared, 2 segments	Brazil Southern Europe Melo C1b2 J2b2*	Send an Introduction
Male	3rd to 6th Cousin 0.21% shared, 2 segments	Portugal Southern Europe T2b R1b1b2a1a	Send an Introduction
Male	3rd to 6th Cousin 0.20% shared, 2 segments	Graciosa, Portugal Terceira, Portugal H13a1a1a R1b1b2a1a	Send an Introduction
Female	3rd to 6th Cousin 0.20% shared, 2 segments	L3d1c	Send an Introduction
Regina Schmitz-Suiter Female, b. 1957	3rd to Distant Cousin 0.24% shared, 1 segment	United States Southern Europe Schmitz Boyer Springer 10 more H1c	Public Match Send a Message
Male, b. 1970	3rd to Distant Cousin 0.23% shared, 1 segment	United States Northern Europe H13a1a1a N1c1	Send an Introduction
		United States Demers Clay Abreu	

My Home
Inbox (1)

My Health
Disease Risk
Carrier Status
Drug Response
Traits
Health Labs

My Ancestry
Maternal Line
Paternal Line
Relative Finder
Ancestry Painting
Global Similarity
Ancestry Labs

Sharing & Community
Family Tree
Family Inheritance
Compare Genes
23andMe Community
Genome Sharing

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Research Snippets
Research Initiatives
Research Discoveries

health overview

Print my health overview | Share my health results

To ensure that the information on this page is as accurate as possible, please set your ancestry on your profile page.

Show results for Michael Jordan

See new and recently updated reports »

23andWe Discoveries were made possible by 23andMe members who took surveys.

Disease Risks (118)

Elevated Risks	Your Risk	Average Risk
Type 2 Diabetes	41.7%	25.7%
Prostate Cancer ♂	21.4%	17.8%
Rheumatoid Arthritis	3.2%	2.4%
Ulcerative Colitis	1.0%	0.8%
Esophageal Squamous Cell Carcinoma (ESCC)	0.6%	0.4%

See all 118 risk reports...

Carrier Status (48)

Alpha-1 Antitrypsin Deficiency	Variant Present
Agenesis of the Corpus Callosum with Peripheral Neuropathy (ACCPN)	Variant Absent
Autosomal Recessive Polycystic Kidney Disease	Variant Absent
ARSACS	Variant Absent
Beta Thalassemia	Variant Absent
Bloom's Syndrome	Variant Absent
BRCA Cancer Mutations (Selected)	Variant Absent
Canavan Disease	Variant Absent

See all 48 carrier status...

Traits (57)

Alcohol Flush Reaction	Does Not Flush
Bitter Taste Perception	Can Taste
Earwax Type	Wet
Eye Color	Likely Brown
Hair Curl	Slightly Curlier Hair on Average

Drug Response (20)

Abacavir Hypersensitivity	Typical
Alcohol Consumption, Smoking and Risk of Esophageal Cancer	Typical
Clopidogrel (Plavix®) Efficacy	Typical
Fluorouracil Toxicity	Typical

My Home
Inbox (1)

My Health
Disease Risk
Carrier Status
Drug Response
Traits
Health Labs

My Ancestry
Maternal Line
Paternal Line
Relative Finder
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Alpha-1 Antitrypsin Deficiency

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Your Data | How It Works | Resources | Technical Report | Community (9)

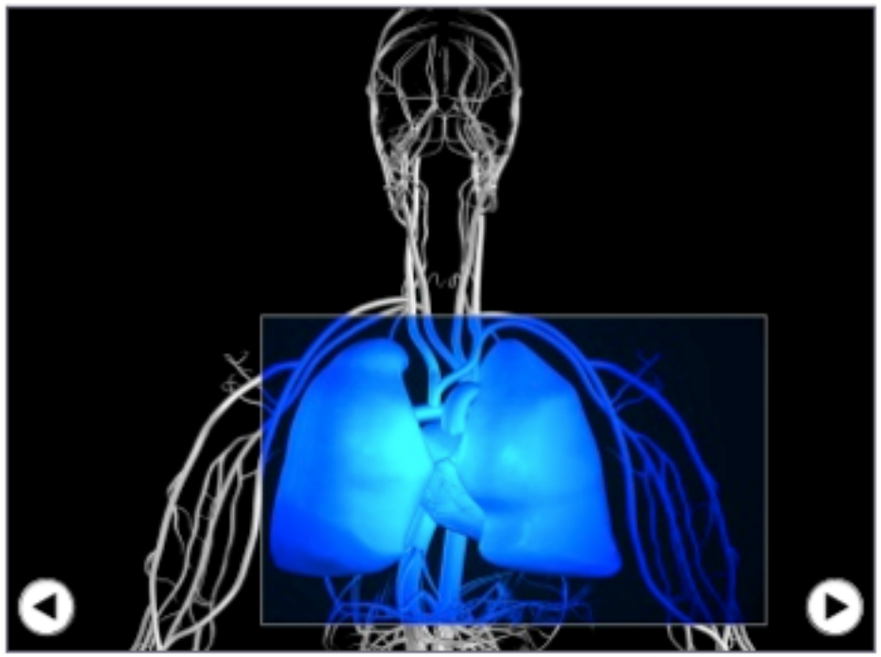
Alpha-1 Antitrypsin Deficiency

Printable Version

The alpha-1 antitrypsin (AAT) protein protects the body, especially fragile lung tissues, from the damaging effects of a powerful enzyme called neutrophil elastase that is released from white blood cells. In AAT deficiency, a genetic mutation reduces levels of the protective protein in the bloodstream. AAT deficiency can lead to chronic obstructive pulmonary disease (COPD), specifically emphysema, and liver disease. Smoking, which can inhibit what little AAT protein an affected person does have, increases the risk of lung disease.

The following results are based on ★★★★ Established Research for 2 reported markers.

Learn more about the biology of Alpha-1 Antitrypsin Deficiency...



1 of 3. Low levels of alpha-1 antitrypsin can lead to COPD.

Your Genetic Data

Show results for all profiles

Who	What It Means
	ZZ: Has two copies of the Z form of the SERPINA1 gene. A person with two copies of the Z form typically has alpha-1 antitrypsin deficiency and is at increased risk for lung and liver disease.
	SZ: Has one S and one Z form of the SERPINA1 gene. People with this combination typically have decreased AAT levels and are at increased risk for lung disease, particularly if they smoke. People with this combination may also have

Genes vs. Environment

Alpha-1 antitrypsin deficiency is completely determined by mutations in a single gene. The severity of symptoms is mostly a function of which mutations a person carries, and how many copies. However, smoking can greatly increase the risk of lung disease due to AAT mutations. 23andMe reports data only for the PI*M, PI*S, and PI*Z versions of the gene that encodes AAT. If you are concerned about AAT deficiency, consult a health professional.

List View | Map View | Surname View

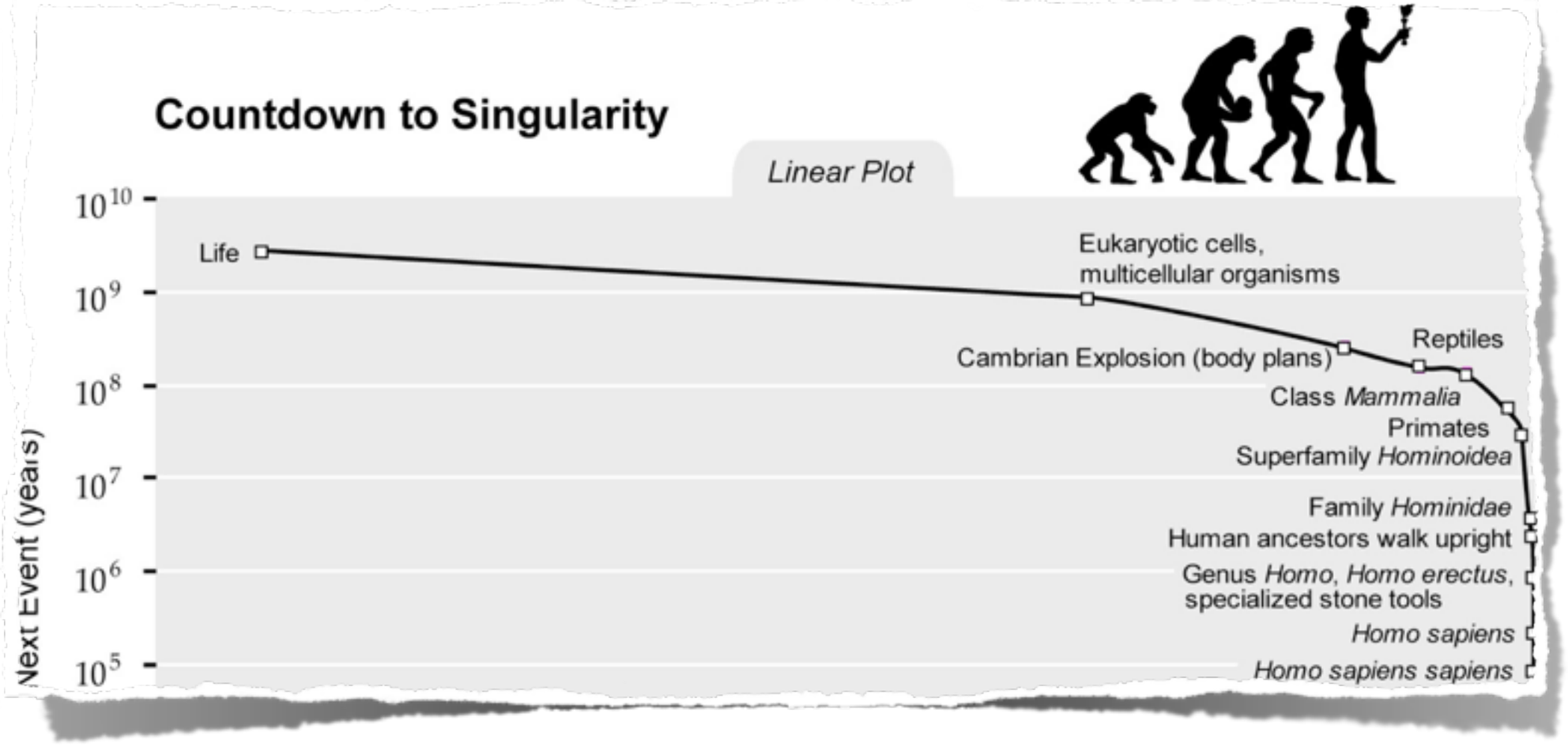
search matches | Show: both sides | Sort: relationship | 25 per page | 1 - 25 of 444

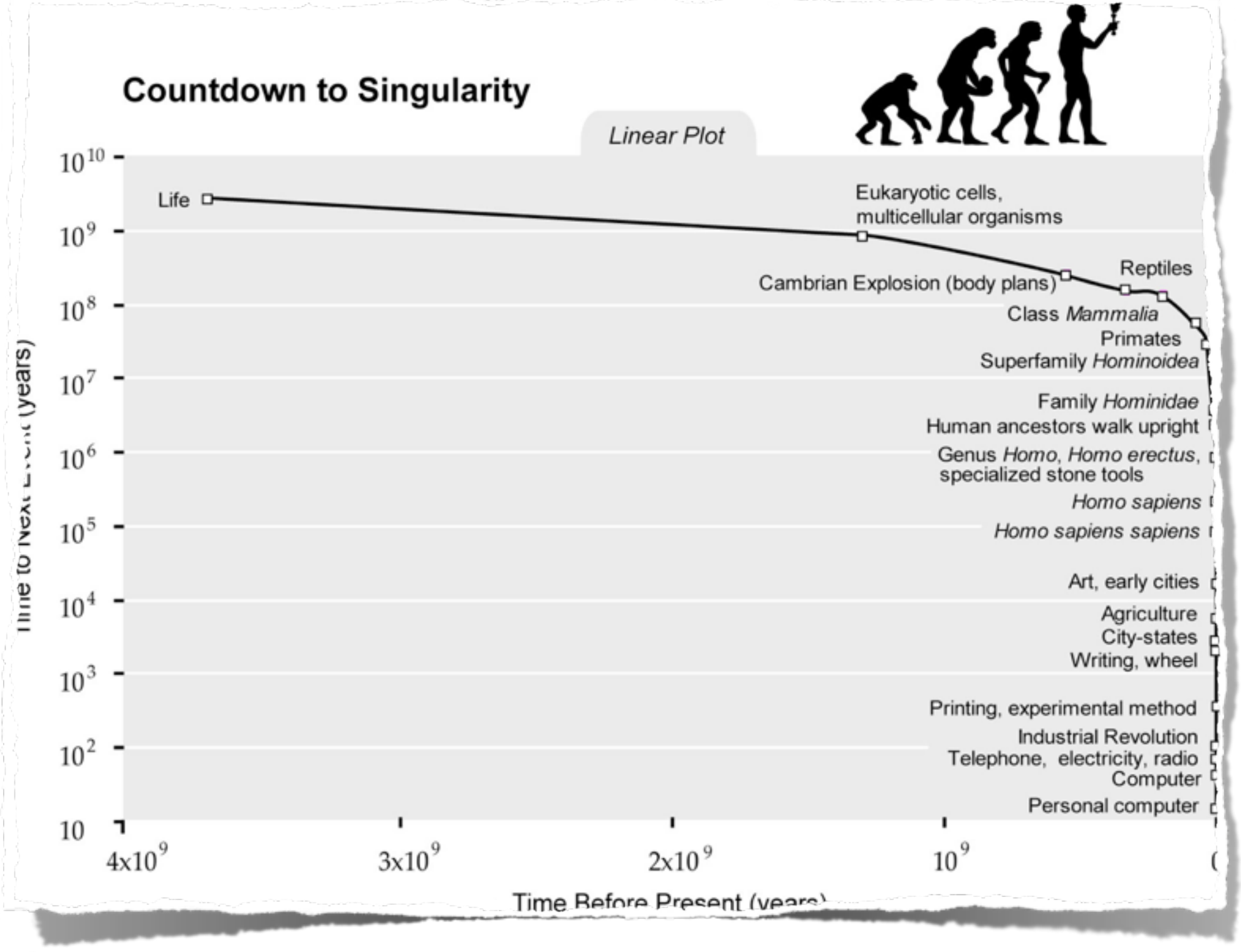
Michael Jordan Male	You	Brazil, Porto Alegre, South America, Correa, Mattos, Jordan, T2b5, R1b1b2a1a	UPDATE YOUR PROFILE
Diego M Male	Brother 48.3% shared, 54 segments	Brazil, Porto Alegre, Brazil, South America, Mattos, Matos, Correa, 4 more, T2b5, R1b1b2a1a	Sharing Genomes Introduction Accepted View Conversation
Female	3rd to 5th Cousin 0.35% shared, 2 segments	Southern Europe, H3	Send an Introduction
Female	3rd to 5th Cousin 0.35% shared, 2 segments	U5b2b	Send an Introduction
Carlos Menezes Male	3rd to 5th Cousin 0.34% shared, 3 segments	Porto Alegre, Brazil, Rio Pardo, ..., Southern Europe, C1b2, R1b1b2a1a	Public Match Send a Message
Female	3rd to 6th	Brazil, São Paulo, SP, C1, J2	Send an Introduction

```
# rsid  chromosome      position        genotype
rs4477212       1       82154   AA
rs3094315       1       752566  AA
rs3131972       1       752721  GG
rs12124819      1       776546  AG
rs11240777      1       798959  AG
rs6681049       1       800007  CC
rs4970383       1       838555  CC
rs4475691       1       846808  CC
rs7537756       1       854250  AA
rs13302982      1       861808  GG
rs1110052       1       873558  TT
rs2272756       1       882033  GG
rs3748597       1       888659  CC
rs13303106      1       891945  GG
rs28415373      1       893981  CC
rs13303010      1       894573  AA
rs6696281       1       903104  CC
rs28391282      1       904165  GG
rs2340592       1       910935  GG
rs13303118      1       918384  TT
rs6665000       1       924898  AA
rs2341362       1       927309  CC
rs9777703       1       928836  TT
rs1891910       1       932457  GG
rs9697457       1       934345  GG
rs35940137      1       940203  AG
rs3128117       1       944564  TT
rs2465126       1       947034  AA
rs2341365       1       948692  AA
rs15842 1       948921  CC
rs6657048       1       957640  CC
rs2710888       1       959842  CC
rs3128126       1       962210  AA
rs2710875       1       977780  TT
rs2465136       1       990417  TT
rs2488991       1       994391  TT
rs7526076       1       998395  GG
rs3934834       1       1005806 CC
rs3766192       1       1017197 TT
rs3766191       1       1017587 CC
rs9442372       1       1018704 GG
rs10907177      1       1021346 AA
rs3737728       1       1021415 GG
rs10907178      1       1021583 AA
rs11260588      1       1021658 GG
rs9442398       1       1021695 GG
```

Parte do arquivo .txt do meu material genético.

E se formos apenas parte da evolução?


Countdown to Singularity
Linear Plot
Next Event (years)
10^{10}
10^{9}
10^{8}
10^{7}
10^{6}
10^{5}
Life
Eukaryotic cells, multicellular organisms
Cambrian Explosion (body plans)
Reptiles
Class *Mammalia*
Primates
Superfamily *Hominoidea*
Family *Hominidae*
Human ancestors walk upright
Genus *Homo*, *Homo erectus*, specialized stone tools
Homo sapiens
Homo sapiens sapiens

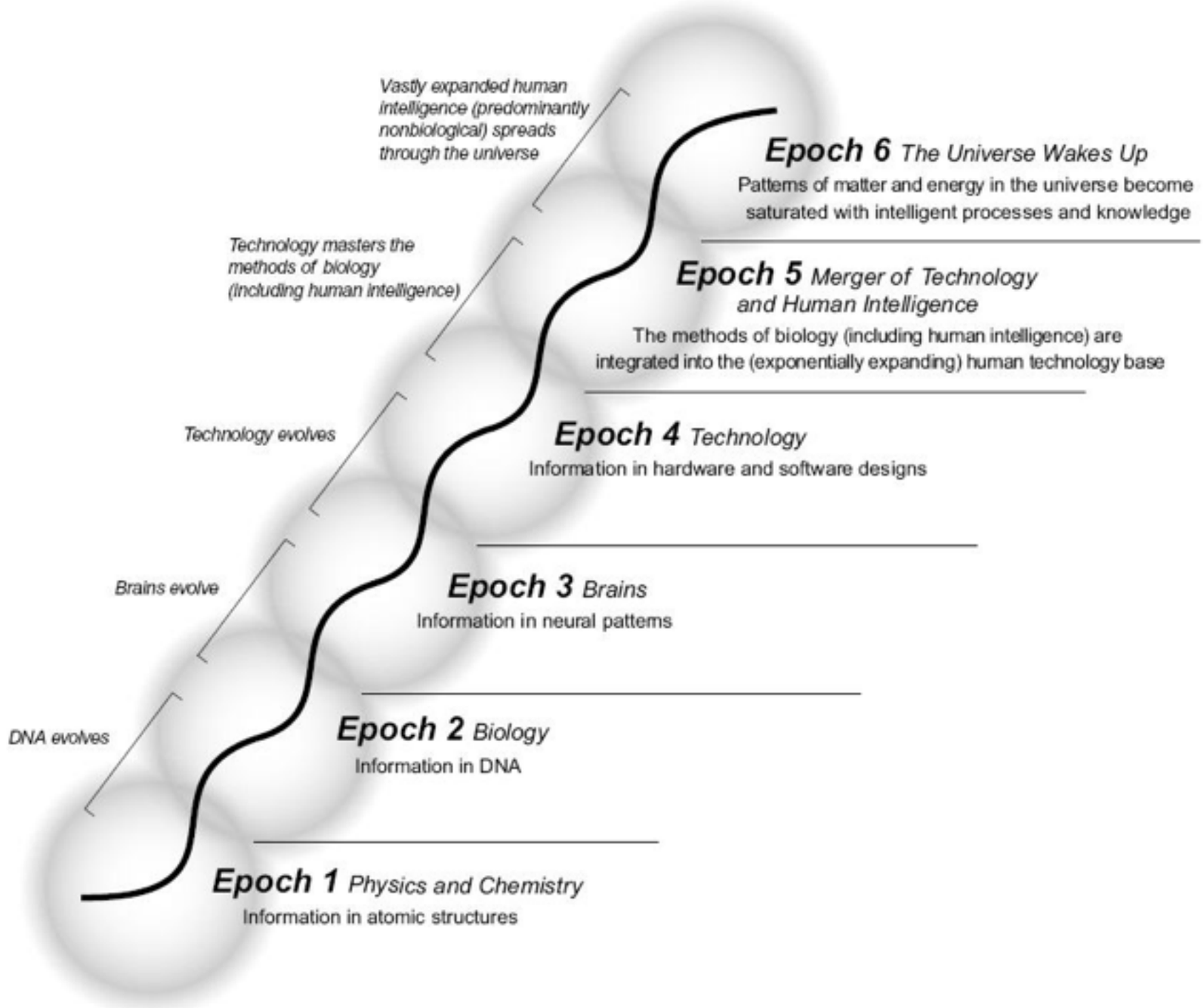

Countdown to Singularity
Linear Plot
Time to Next Event (years)
10^{10}
10^{9}
10^{8}
10^{7}
10^{6}
10^{5}
10^{4}
10^{3}
10^{2}
10
Life
Eukaryotic cells, multicellular organisms
Cambrian Explosion (body plans)
Reptiles
Class *Mammalia*
Primates
Superfamily *Hominoidea*
Family *Hominidae*
Human ancestors walk upright
Genus *Homo*, *Homo erectus*, specialized stone tools
Homo sapiens
Homo sapiens sapiens
Art, early cities
Agriculture
City-states
Writing, wheel
Printing, experimental method
Industrial Revolution
Telephone, electricity, radio
Computer
Personal computer
$4x10^9$
$3x10^9$
$2x10^9$
10^9
Time Before Present (years)

Grande número de organismos isolados de menor complexidade

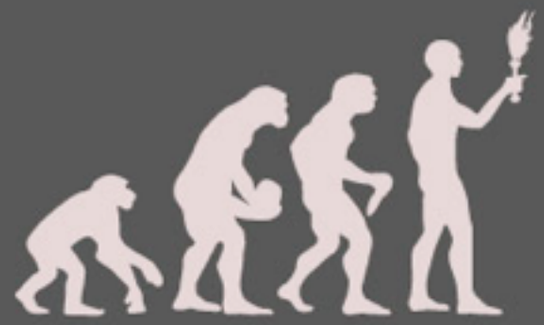
Pequeno número de organismos conectados de maior complexidade

Você abriria mão de ser humano para transcender?

Singularidade


Vastly expanded human intelligence (predominantly nonbiological) spreads through the universe
Epoch 6 The Universe Wakes Up
Patterns of matter and energy in the universe become saturated with intelligent processes and knowledge
Technology masters the methods of biology (including human intelligence)
Epoch 5 Merger of Technology and Human Intelligence
The methods of biology (including human intelligence) are integrated into the (exponentially expanding) human technology base
Technology evolves
Epoch 4 Technology
Information in hardware and software designs
Brains evolve
Epoch 3 Brains
Information in neural patterns
DNA evolves
Epoch 2 Biology
Information in DNA
Epoch 1 Physics and Chemistry
Information in atomic structures

Paradigm Shifts for
15 Lists of Key Events



Logarithmic Plot

Time to Next Event (years)

10^{10} 10^{9} 10^{8} 10^{7} 10^{6} 10^{5} 10^{4} 10^{3} 10^{2} 10

10^{11} 10^{10} 10^{9} 10^{8} 10^{7} 10^{6} 10^{5} 10^{4} 10^{3} 10^{2} 10

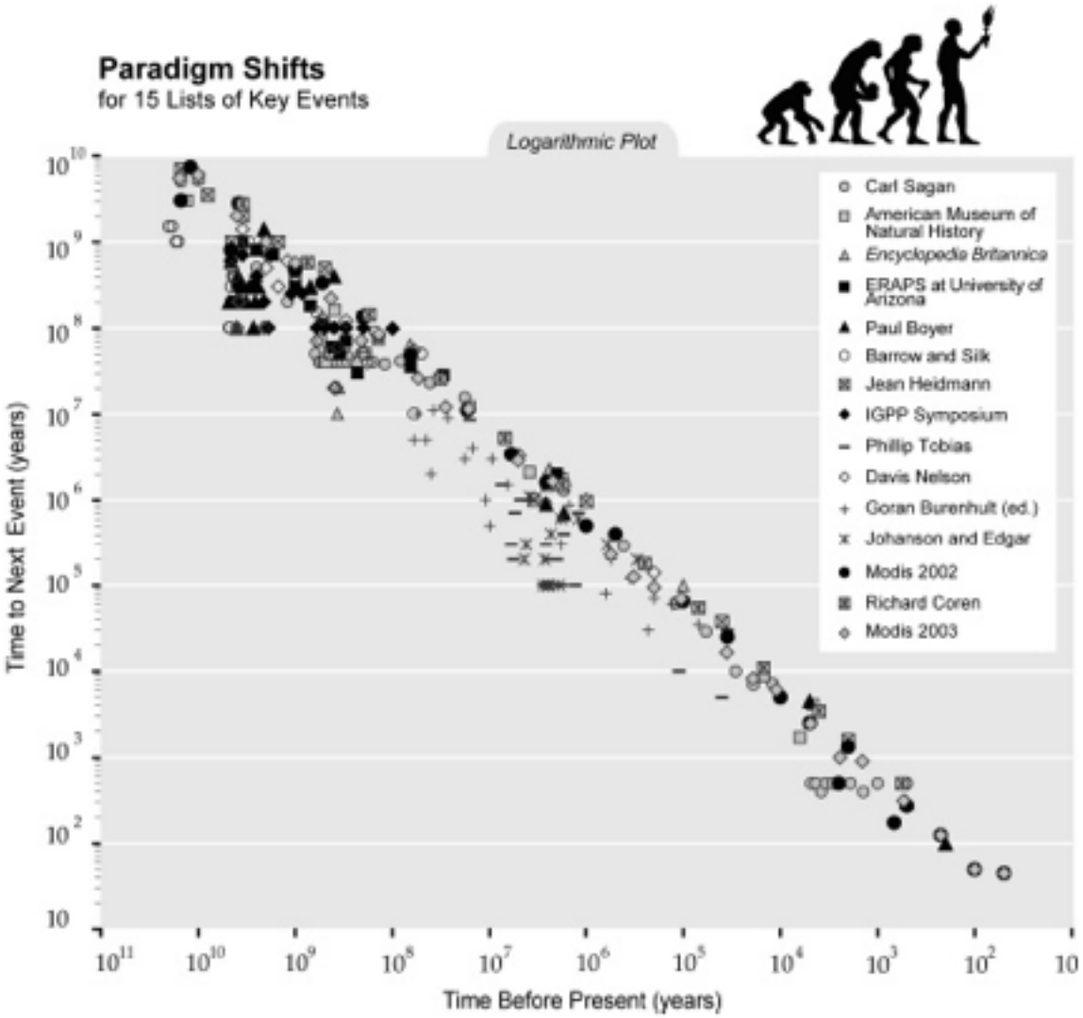
Time Before Present (Years)

- Carl Sagan
- American Museum of Natural History
- Encyclopedia Britannica
- ERAPS at University of Arizona
- Paul Boyer
- Barrow and Silk
- Jean Heidmann
- IGPP Symposium
- Phillip Tobias
- Davis Nelson
- Goran Burenhult (ed.)
- Johanson and Edgar
- Modis 2002
- Richard Coren
- Modis 2003

pg.# In order of appearence:

17	Countdown to SIN -logarithmic
18	Countdown to SIN - linear
19	Paradigm Shifts for 15 Lists of Key Events
20	Canonical Milestones
48	Growth of U.S. Phone Industry
49	Estimated U.S. Cell Phone Subscribers
50	Mass Use of Inventions
57	Dynamic RAM Smallest Feature Size
58	Dynamic RAM Price
59	Average Transistor Price
60	Transistor Manufacturing Costs Falling
61	Micro Processor Clock Speed
62	Micro Processor Cost per Transistor Cycle
63	Transistor per Microprocessor
64	Processor Performance (MIPS)
65	Total Bits Shipped
67	Moore's Law - The Fifth Paradigm
70	Exponential Growth of Computing
71	Growth in Supercomputer Power
73	DNA Sequencing Cost
74	Growth in Genbank
75	Random Access Memory
76	Magnetic Data Storage
77	Price Performance (Wireless Data Devices)
78	Internet Hosts - Logarithmic
79	Internet Hosts - Linear
80	Internet Data Traffic
81	Internet Backbone Bandwidth
82	Decrease in Size of Mechanical Devices
83	Nanotech Science Citations
84	U.S. Nanorelated Patents

Download the Excel Spreadsheet



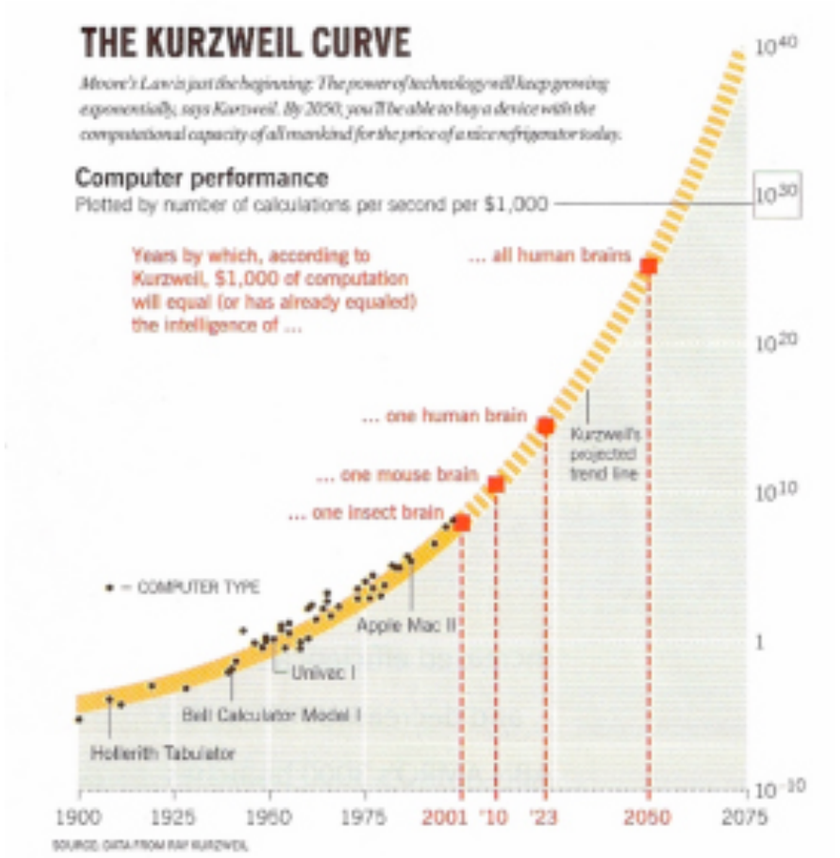
Source (List)	Event	Time Before Present (Years)	Time to Next Event (Years)
Carl Sagan	Big Bang	15000000000	5000000000
Carl Sagan	Origin of Milky Way Galaxy	10000000000	5400000000
Carl Sagan	Origin of the Solar System	4600000000	200000000
Carl Sagan	Formation of the Earth	4400000000	400000000
Carl Sagan	Origin of life on Earth	4000000000	300000000

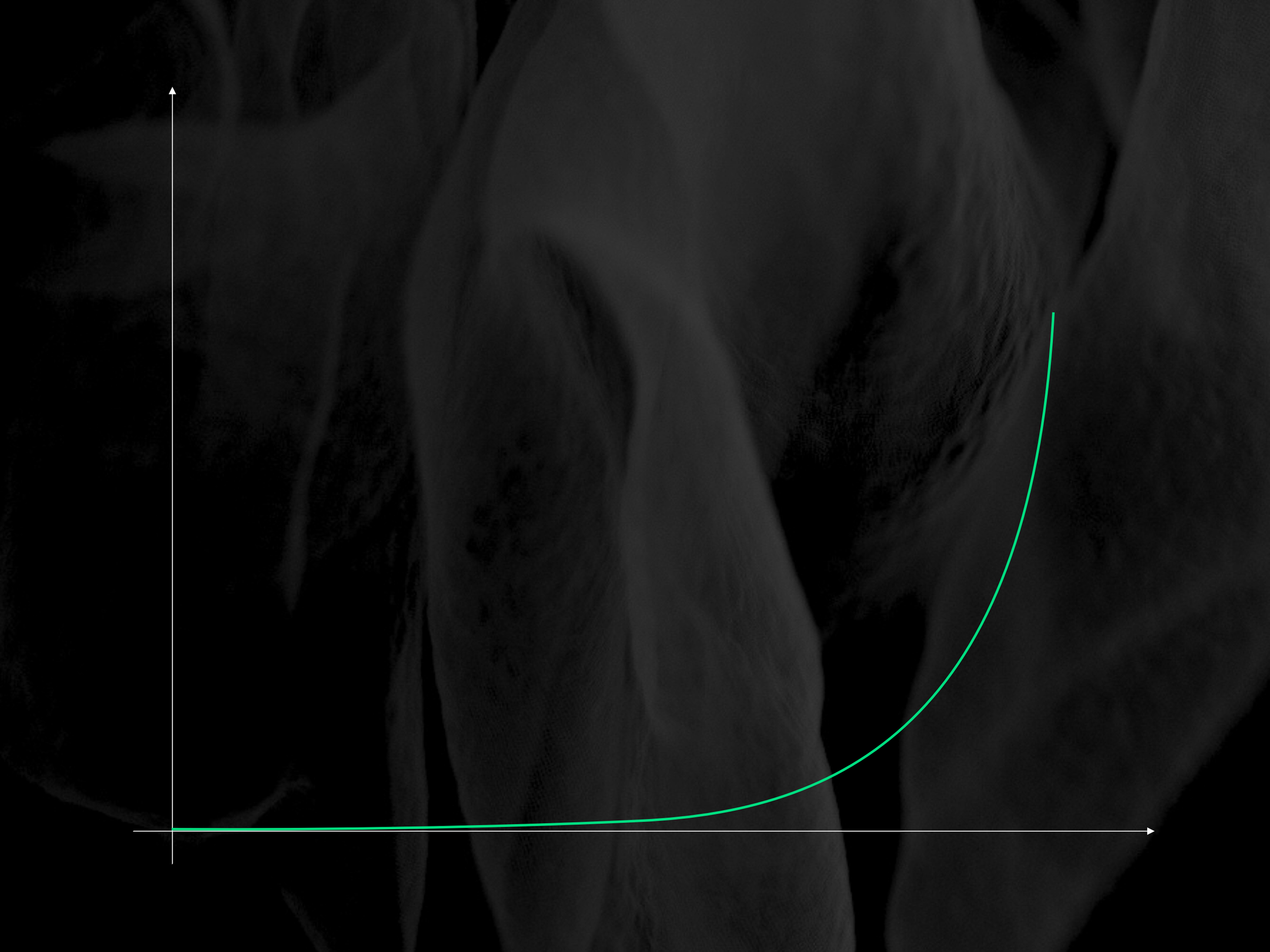
Source (List)	Event	Time Before Present (Years)	Time to Next Event (Years)
Carl Sagan	Big Bang	15000000000	5000000000
Carl Sagan	Origin of Milky Way Galaxy	10000000000	5400000000
Carl Sagan	Origin of the Solar System	4600000000	200000000
Carl Sagan	Formation of the Earth	4400000000	400000000
Carl Sagan	Origin of life on Earth	4000000000	300000000
Carl Sagan	Formation of the oldest rocks known on Earth	3700000000	300000000
Carl Sagan	Date of oldest fossils (bacteria and blue-green algae)	3400000000	900000000
Carl Sagan	Invention of sex (by microorganisms)	2500000000	500000000
Carl Sagan	Oldest fossil photosynthetic plants	2000000000	100000000
Carl Sagan	Eukaryotes (first cells with nuclei) flourish	1900000000	700000000
Carl Sagan	Significant oxygen atmosphere begins to develop on Earth	1200000000	200000000
Carl Sagan	Extensive volcanism and channel formation on Mars	1000000000	380000000
Carl Sagan	First worms	620000000	50000000
Carl Sagan	Precambrian ends. Paleozoic Era and Cambrian Period begin. Invertebrates flourish	570000000	40000000
Carl Sagan	First oceanic plankton. Trilobites flourish.	530000000	40000000
Carl Sagan	Ordovician Period. First fish, first vertebrates.	490000000	40000000
Carl Sagan	Silurian Period. First vascular plants. Plants begin colonization of land	450000000	40000000
Carl Sagan	Devonian Period begins. First insects. Animals begin colonization of land	410000000	40000000
Carl Sagan	First amphibians. First winged insects.	370000000	40000000
Carl Sagan	Carboniferous Period. First trees. First reptiles.	330000000	40000000
Carl Sagan	Permian Period begins. First dinosaurs.	290000000	40000000
Carl Sagan	Paleozoic Era ends. Mesozoic Era Begins.	250000000	40000000
Carl Sagan	Triassic Period. First mammals.	210000000	50000000
Carl Sagan	Jurassic Period. First birds.	160000000	40000000
Carl Sagan	Cretaceous Period. First flowers. Dinosaurs become extinct.	120000000	38000000
Carl Sagan	Mesozoic Era ends. Cenozoic Era Tertiary Period begins. First cetaceans. First primates.	82000000	41000000
Carl Sagan	First evolution of frontal lobes in the brain of primates. First hominids. Giant mammals flourish.	41000000	23000000

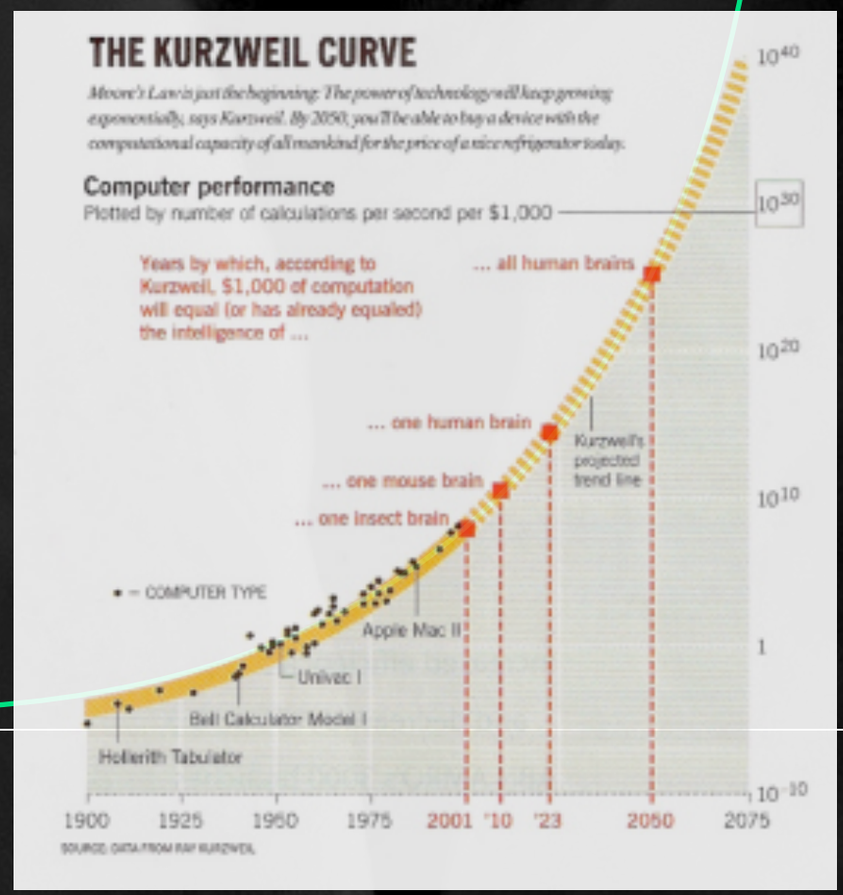
Paul Boyer	Big bang	15000000000	10200000000
Paul Boyer	Solar system forms	4800000000	200000000
Paul Boyer	Earth forms	4600000000	600000000
Paul Boyer	Nitrogen atmosphere (for winds) is present or acquired	4000000000	100000000
Paul Boyer	Abundant water is present or acquired, Organic precursors for life forms accumulate, Primitive living organisms arise or (less likely) come from space	3900000000	400000000
Paul Boyer	Land temperature stabilizes so that most of the water is liquid	3500000000	300000000
Paul Boyer	Some life forms get energy from oxidationreduction reactions	3200000000	200000000
Paul Boyer	Organisms evolve to gain many present biochemical characteristics	3000000000	300000000
Paul Boyer	Photosynthetic capacity is acquired, and oxygen evolution begins	2700000000	100000000
Paul Boyer	Land surfaces form and plate tectonics established	2600000000	200000000
Paul Boyer	Evolution produces organisms that can use oxygen to make ATP	2400000000	300000000
Paul Boyer	Abundant microorganisms colonize the entire earth.	2100000000	1400000000
Paul Boyer	Multicellular organisms arise with increased capacity for structural differentiation	700000000	300000000
Paul Boyer	Primitive plant forms begin to evolve stems, roots, and leaves	400000000	397400000
Paul Boyer	First humans	2600000	900000
Paul Boyer	Widespread use of stone tools	1700000	700000
Paul Boyer	Acquisition of spoken language	1000000	995000
Paul Boyer	Acquisition of written language	5000	4500
Paul Boyer	They learn that knowledge comes from observation and experiment (scientific method)	500	300
Paul Boyer	Ability to control nature gives rise to a human population explosion	200	100
Paul Boyer	The above abilities give rise to a remarkable understanding of nature	100	

American Museum of Natural History	Big Bang	13000000000	3000000000
American Museum of Natural History	Milky Way forms	10000000000	5500000000
American Museum of Natural History	Sun and planets form	4500000000	700000000
American Museum of Natural History	Oldest known life (single cell)	3800000000	2800000000
American Museum of Natural History	First multicellular organisms	1000000000	450000000
American Museum of Natural History	Cambrian Explosion (burst of new life forms)	550000000	70000000
American Museum of Natural History	Emergence of first vertebrates	480000000	40000000
American Museum of Natural History	Early land plants	440000000	50000000
American Museum of Natural History	Variety of insects begin to flourish	390000000	160000000
American Museum of Natural History	First dinosaurs appear	230000000	40000000
American Museum of Natural History	First mammalian ancestors appear	190000000	50000000
American Museum of Natural History	First known birds	140000000	75000000
American Museum of Natural History	Dinosaurs wiped out by asteroid or comet	65000000	49000000
American Museum of Natural History	Apes appear	16000000	12100000
American Museum of Natural History	First human ancestors to walk upright	3900000	2100000
American Museum of Natural History	Homo erectus appears	1800000	1785000
American Museum of Natural History	Anatomically modern humans appear	15000	8700
American Museum of Natural History	Invention of writing	6300	1700
American Museum of Natural History	Pyramids built in Egypt	4600	4092
American Museum of Natural History	Voyage of Christopher Columbus	508	

ERAPS at University of Arizona	No life; shallow seas	4000000000	200000000
ERAPS at University of Arizona	Origin of simple cells	3800000000	300000000
ERAPS at University of Arizona	Origin of cyanobacteria	3500000000	1000000000
ERAPS at University of Arizona	Oxygen accumulates in atmosphere	2500000000	800000000
ERAPS at University of Arizona	Protists and green algae	1700000000	700000000
ERAPS at University of Arizona	Simple multicellular life (sponges, seaweeds)	1000000000	300000000
ERAPS at University of Arizona	More invertebrates (flatworms, jellyfish)	700000000	180000000
ERAPS at University of Arizona	Early animals with hard parts in oceans	520000000	110000000
ERAPS at University of Arizona	Planets invade land	410000000	60000000
ERAPS at University of Arizona	Vertebrates invade land	350000000	50000000
ERAPS at University of Arizona	Coal forming forests, amphibians, BIG insects	300000000	70000000
ERAPS at University of Arizona	Mass extinction (trilobites)	230000000	30000000
ERAPS at University of Arizona	Pangaea, first mammals, first reptiles	200000000	135000000
ERAPS at University of Arizona	Mass extinction (including dinosaurs)	65000000	35000000
ERAPS at University of Arizona	Small mammals, humanoids	30000000	28000000
ERAPS at University of Arizona	Early Humans	2000000	1999999
ERAPS at University of Arizona	Us	1	


THE KURZWEIL CURVE
Moore's Law is just the beginning: The power of technology will keep growing exponentially, says Kurzweil. By 2050, you'll be able to buy a device with the computational capacity of all mankind for the price of a nice refrigerator today.
Computer performance
Plotted by number of calculations per second per $1,000
Years by which, according to Kurzweil, $1,000 of computation will equal (or has already equaled) the intelligence of ...
... all human brains
... one human brain
... one mouse brain
... one insect brain
Kurzweil's projected trend line
• = COMPUTER TYPE
Apple Mac II
Univac I
Bell Calculator Model I
Hollerith Tabulator
10^{40}
10^{30}
10^{20}
10^{10}
1
10^{-10}
1900
1925
1950
1975
2001
'10
'23
2050
2075
SOURCE: DATA FROM RAY KURZWEIL

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Kurzweil's projected trend line
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10^{30}
10^{20}
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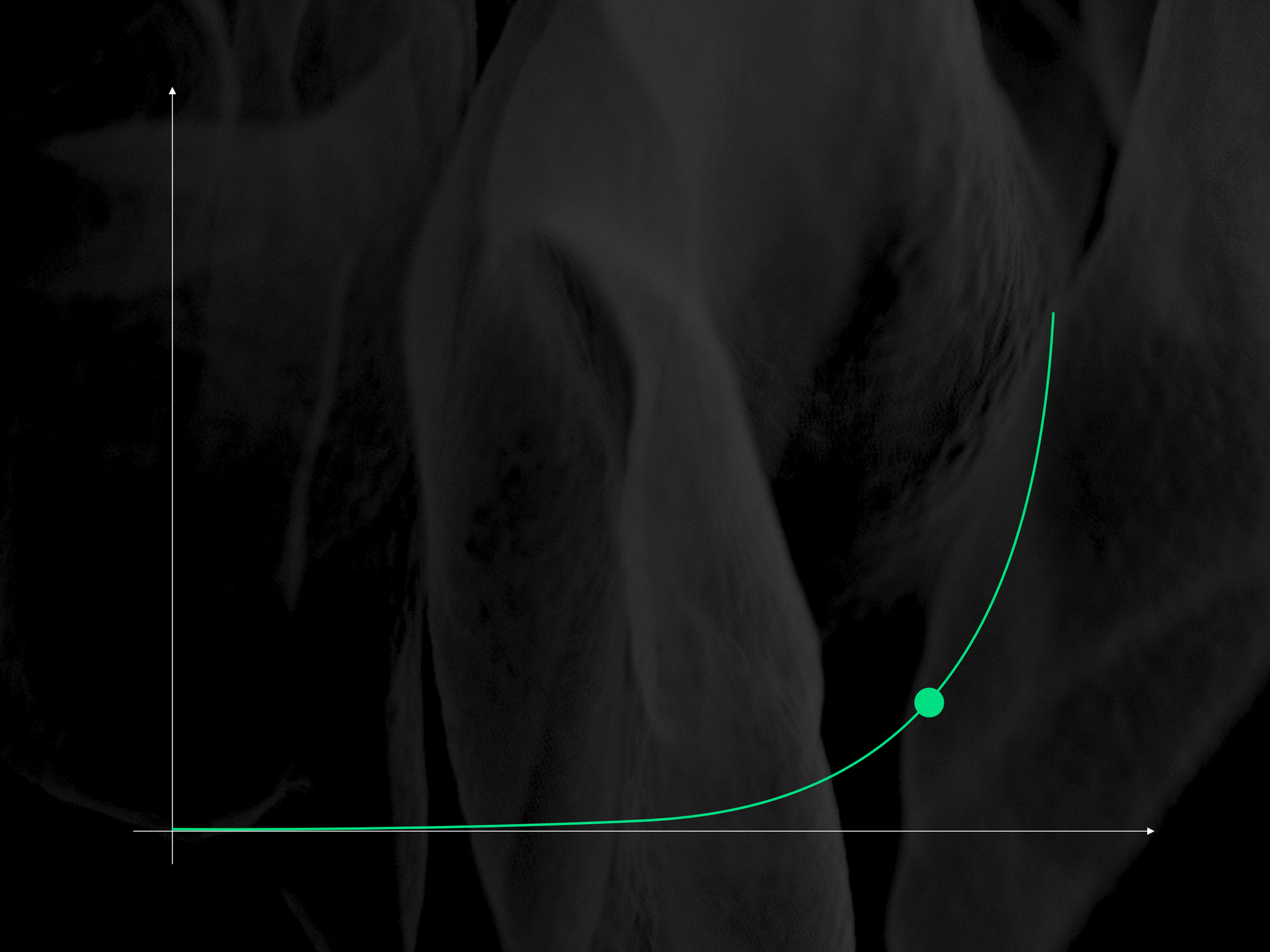
1925
1950
1975
2001
'10
'23
2050
2075



Grande número de organismos isolados de menor complexidade

Pequeno número de organismos conectados de maior complexidade

Ciência

Religião

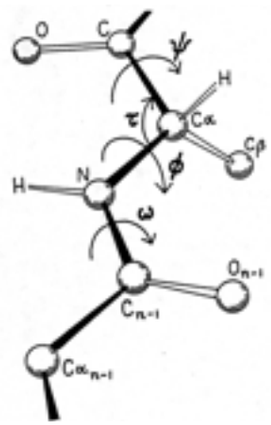
Filosofia

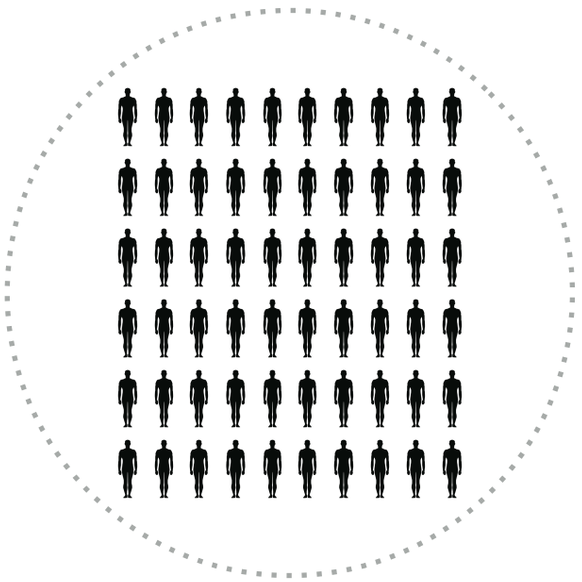
Arte

Meditação

Psiconautas

Ciência


O
C
H
Cα
Cβ
N
H
O n-1
C n-1
Cα n-1



Grande número de organismos isolados de menor complexidade

Pequeno número de organismos conectados de maior complexidade

Filosofia

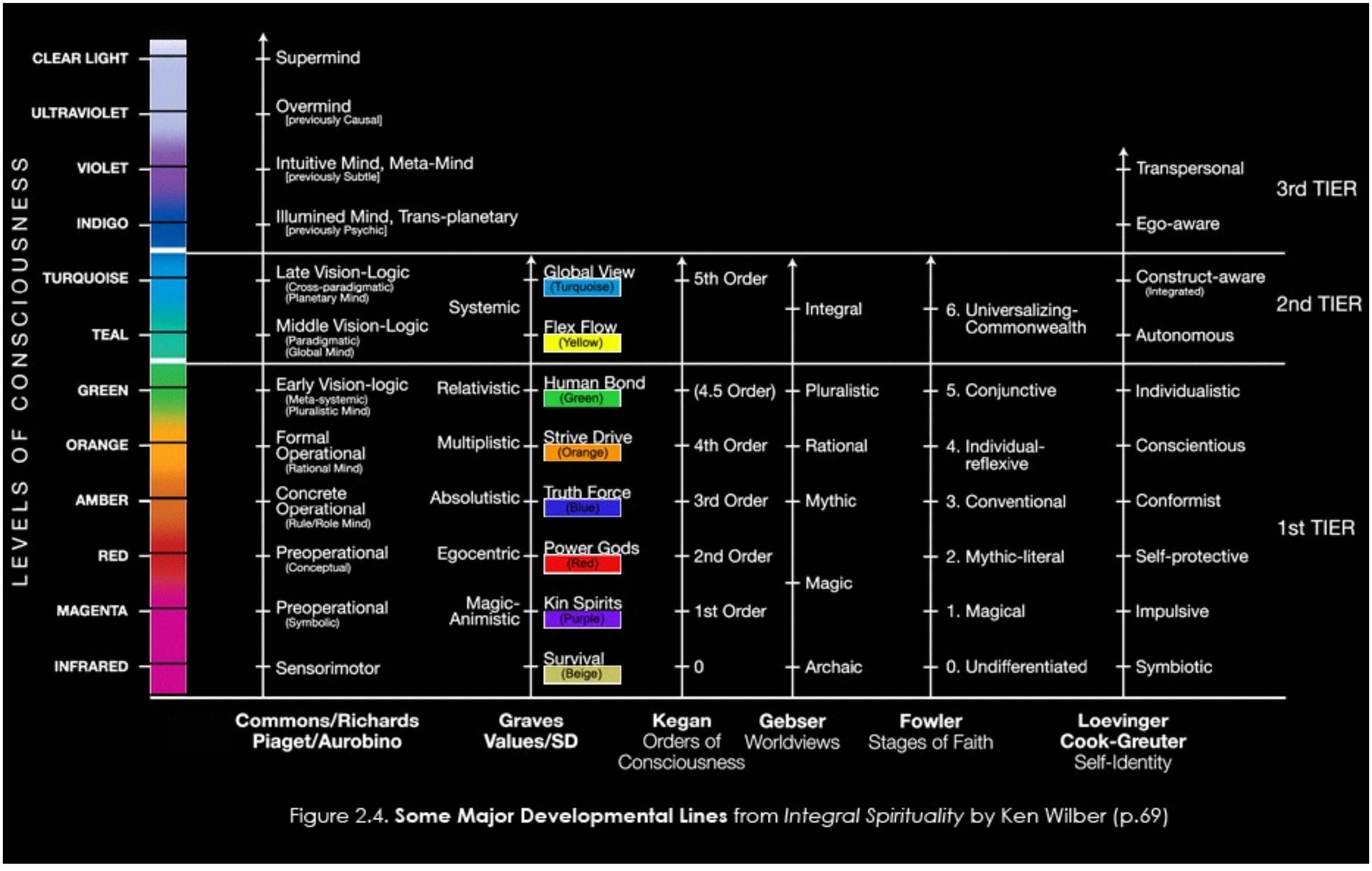


Figure 2.4. **Some Major Developmental Lines** from *Integral Spirituality* by Ken Wilber (p.69)

Grande número de organismos isolados de menor complexidade

Pequeno número de organismos conectados de maior complexidade

Religião

Grande número de organismos isolados de menor complexidade

Pequeno número de organismos conectados de maior complexidade

Psiconautas

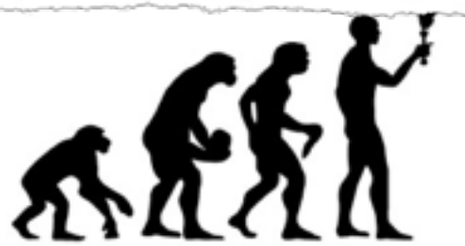
Grande número de organismos isolados de menor complexidade

Pequeno número de organismos conectados de maior complexidade

Arte

Será que a transcendência não é a única coisa que, de fato, perseguimos?
Será que a tecnologia não é uma ferramenta para essa transcendência?

Countdown to Singularity



Linear Plot

Time to Next Event (years)

10^{10}
10^{9}
10^{8}
10^{7}
10^{6}
10^{5}
10^{4}
10^{3}
10^{2}
10

Life
Eukaryotic cells, multicellular organisms
Cambrian Explosion (body plans)
Reptiles
Class *Mammalia*
Primates
Superfamily *Hominoidea*
Family *Hominidae*
Human ancestors walk upright
Genus *Homo*, *Homo erectus*, specialized stone tools
Homo sapiens
Homo sapiens sapiens
Art, early cities
Agriculture
City-states
Writing, wheel
Printing, experimental method
Industrial Revolution
Telephone, electricity, radio
Computer
Personal computer

$4x10^9$ $3x10^9$ $2x10^9$ 10^9

Time Before Present (years)

Grande número de organismos isolados de menor complexidade

Pequeno número de organismos conectados de maior complexidade

O que estou aprendendo no FoT é para meu uso?

Aprender é identificar padrões.

AEROLI.TO