Entanglement & a Quantum Computer Future

You've Just Entered the Fifth Dimension





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Agenda – Apply Technology & W.I.N.

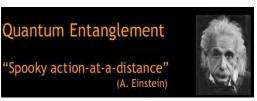


- ☐ Economic Potential of GenAl & Robots
- What is Entanglement
- Why Entanglement will Matter
- ☐ Entanglement Effect on Quantum Computers
- □ Physics Couldn't Solve It In 1927
- ☐ Entanglement may Change Life as We Know It
- ☐ Machine Learning Future, Robots & VR ← FYI





ONLINE TECH EVENTS
COMMUNITY BUILDING





The economic potential of GenAl*

- McKinsey & Co.1

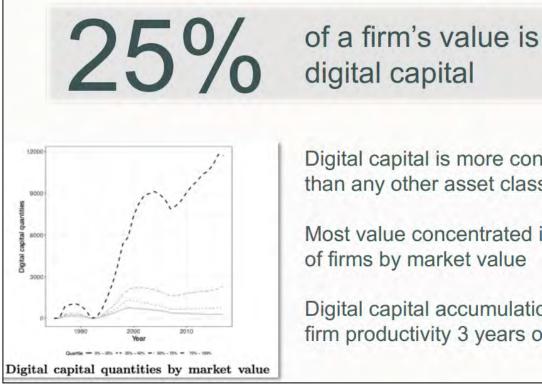
The very nature of digital data presents a challenge

Digital Capital and Superstar Firms¹

Digital Can be copied Shape of origin is rarely shape of use 7149

Requires a whole system to create, repurpose, and protect data products

Requires shapeshifting to achieve maximum value



digital capital

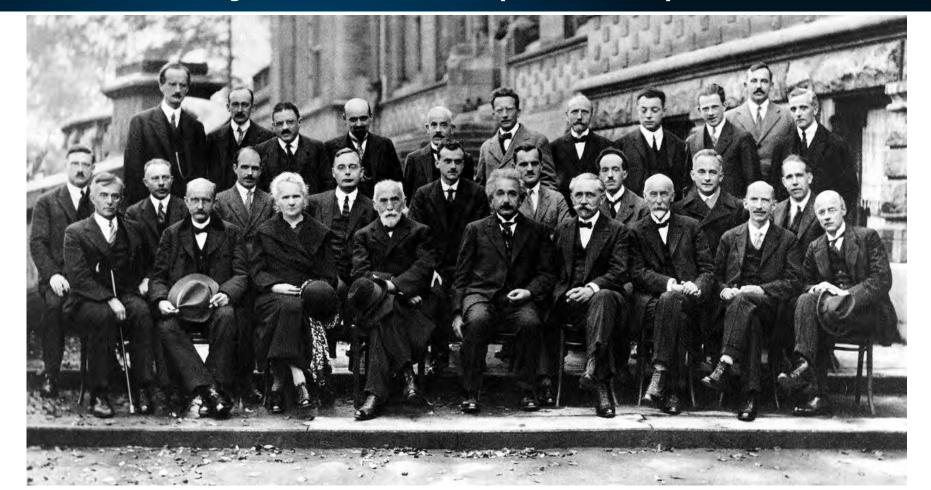
Digital capital is more concentrated than any other asset class

Most value concentrated in top decile of firms by market value

Digital capital accumulation predicts firm productivity 3 years out

*Data-driven Transformation, Oracle

1927 Solvay Conference (fifth one)



Bohr & Einstein often debated Quantum Theory

(Note: they won back-to-back Nobel Prizes in 1921/1922)



Albert Einstein: "God does not play dice."



Niels Bohr: "Einstein, stop telling God what to do."



Scientist and Two Colleagues Find It Is Not 'Complete' Even Though 'Correct.'

Via EPR Paper



What is Quantum Entanglement

Dictionary

Definitions from Oxford Languages · Learn more

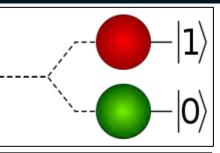


quantum entanglement

noun PHYSICS

the phenomenon <u>whereby</u> a pair of particles are generated in such a way that the individual quantum states of each are <u>indefinite</u> until measured, and the act of measuring one determines the result of measuring the other, even when at a distance from each other.

- **Entanglement** Particles interacting in a way that each particle cannot be described independently of the state of the other even when separated by a large distance.
- Qubit Quantum Bit is in two states
- Superposition of States 1/0
- Superposition of Electron Spin Up/Down
- **Decoherence** Quantum State *broken*
- 2008 Superposition for 1.75 seconds
- 2013 Superposition of 3 hrs. (<u>low temperature</u>)



$$|0
angle = \left[egin{smallmatrix} 1 \ 0 \end{smallmatrix}
ight]$$
 and $|1
angle = \left[egin{smallmatrix} 0 \ 1 \end{smallmatrix}
ight]$

Driac or Bra-Ket Notation Ket 0 & Ket 1



Why Entanglement will matter with Al

- Classical algorithms run on quantum computers, but quantum algorithms (quantum Neural Network) use quantum computation such as quantum entanglement and quantum superposition.
- Quantum accelerates Algorithms like Shor's Algorithm for factoring (used widely in security & the internet) & Grover's algorithm used for searching an unstructured data. Both of these algorithms run unbelievably faster than any next best choice.
- It also speeds up finding the k-nearest neighbor used often with indexing AI in Vector Searches & many other algorithms.
- There is also a Quantum Eigensolver algorithm that can be helpful in Al specifically.
- May Accelerate Reinforcement Learning (Machine Learning)

The Race to Build a Quantum Computer



Schrödinger's Killer App

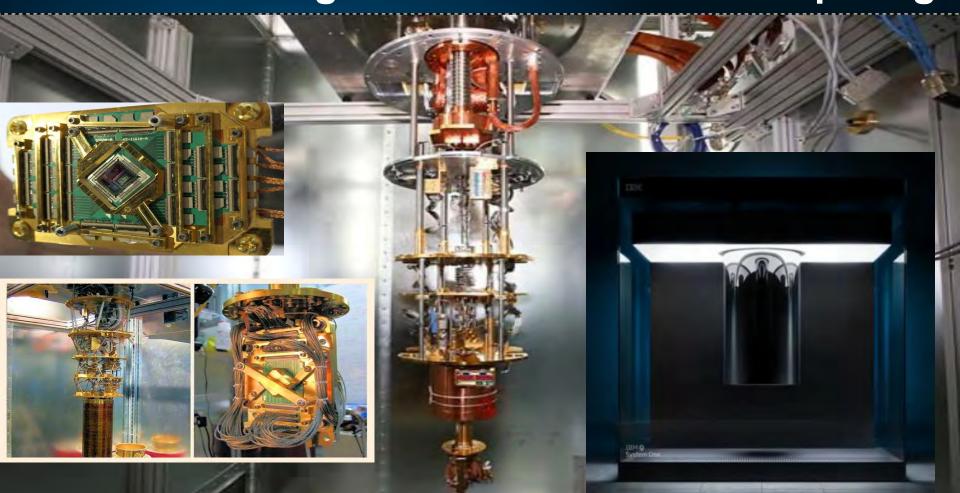
Race to Build the World's First Quantum Computer



Jonathan P. Dowling



Effects of Entanglement on Quantum Computing



64-Bit advancement of Directly addressable memory

Address Directly Indirect/Extended

16 (640)

8 Bit: 256 (65,536)

16 Bit: 65,536 (1,048,576)

32 Bit: 4,294,967,296

4 Bit:

Shift

16-bit to 32-bit

64-bit to 128-bit

64 Bit: 18,446,744,073,709,551,616

128 Bit: 3.4 x 10e+38

Technology Feels Like It's Accelerating — Because It Actually Is

By Alison E. Berman and Jason Dorrier - Mar 22, 2016 @ 40,547

Increase (Result)

8-bit to 16-bit 1 mph (Windows)

65K mph (Internet)

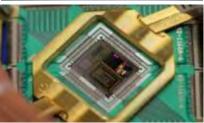
32-bit to 64-bit 300T mph (Robotics/ML...etc)

5T*T*B mph (Implants/4D/AI)





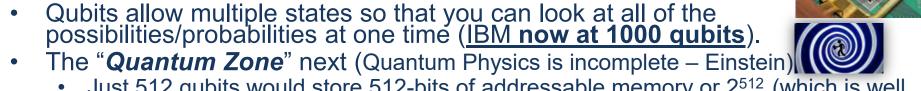




What's comes after the Exadata Zone? YOU will soon be in for more...

Directly Addressable

<u> 4 Bit:</u>	16	(640)	
8 Bit:	256	(65,536)	
16 Bit:	65,536	(1,048,576)	
32 Bit:	4,294,967,296		
64 Bit:	18,446,744,073,709,551,616		
128 Bit:	3.4 x 10e+38 quantum leap!		



Just 512 qubits would store 512-bits of addressable memory or 2^{512} (which is well over a googol or 1 with 100 zero's after it – **a googol is about 2^{332}**).

Indirect/Extended

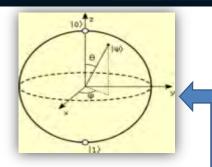
- Brush up on your Eigenvectors, Eigenvalues, Pauli Matrices & Grover's Algorithm Create Singularity ... all atoms of a person by 2045 (I think earlier); 12-Monkeys
- Private universes One for each person? (Schroeder's cat I think not)
- Rearranging atoms to create new objects: Nanotech + Quantum Physics coming!

What's comes *after* the Exadata Zone? YOU will soon be in for more...



Consider 3-bit or 2 ³	(Addressable memory is 8)
	•

<u> </u>	del 3-bit di Z	(Addressable mem
000	100	•
001	101	
010	110	
011	111	



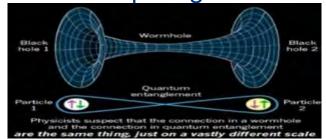
With just 3 qubits I can (ket notation) – look at all 8 states at once: a|000> + b|001> + c|010> + d|011> + e|100> + f|101> + g|110> + h|111> For the state (a,b,c,d,e,f,g,h): Note that: |010> = (0,0,1,0,0,0,0,0)

We're moving from zeros or ones to qubits (0 and 1) represented by the **Bloch Sphere**. Many challenges: Including quantum **decoherance** and issues mapping **entanglement** & **superposition** to computing.

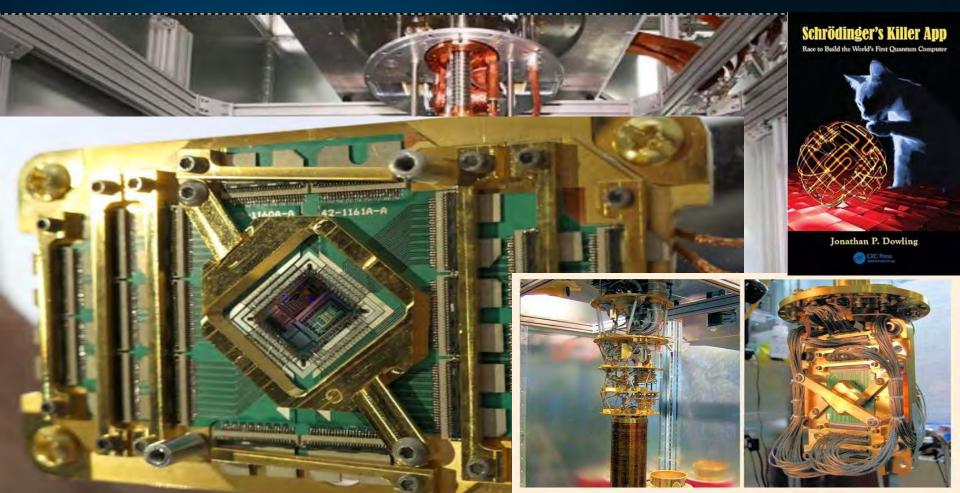
Quantum Entanglement

"Spooky action-at-a-distance"

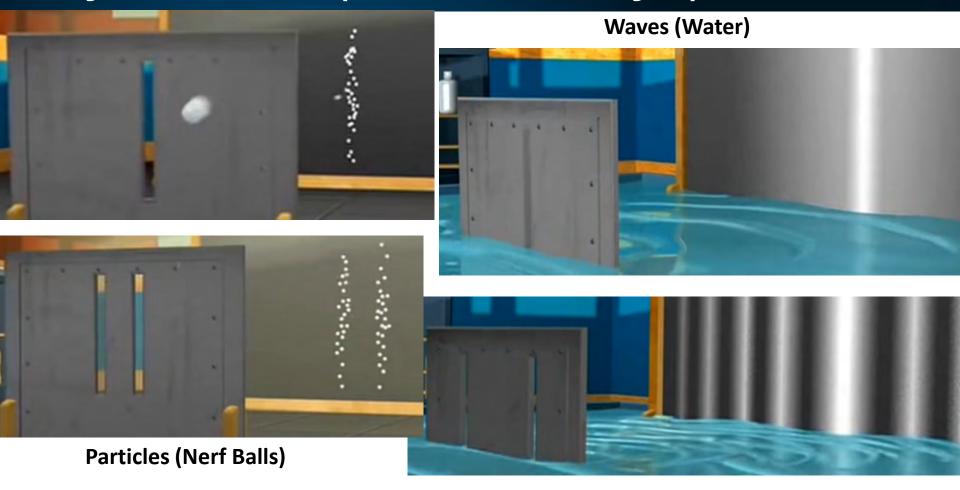
(A. Einstein)



Quantum Computing makes Al Fast Enough!



Physics Basics (NOT Quantum yet) * Dr. Quantum

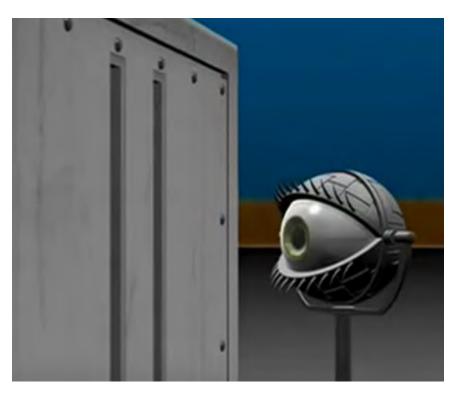


Quantum Mechanics (not intuitive physics!)

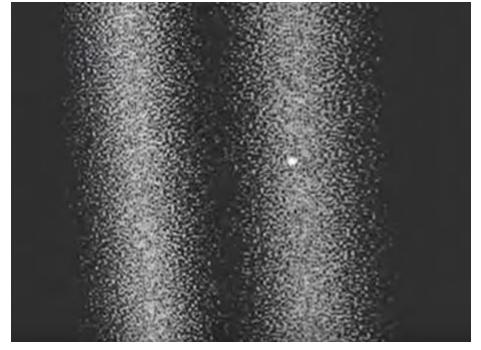


Two slits: Electron starts as a particle becomes a wave of probabilities/possibilities & goes thru both slits, neither, and each slit at different times.

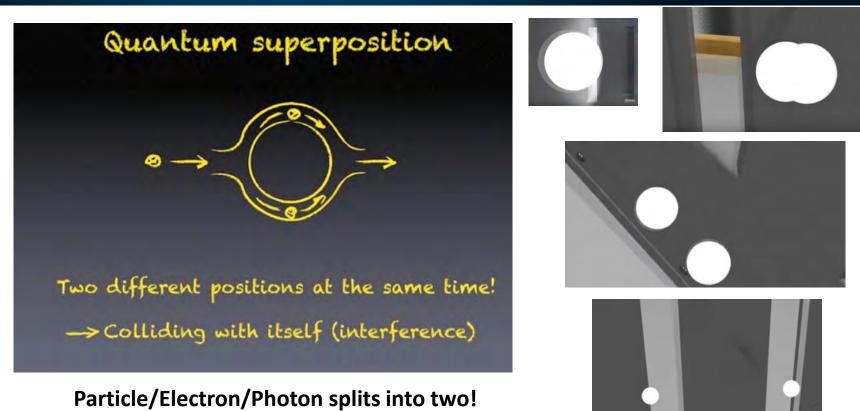
Quantum Mechanics (stranger yet!)



When Watched, electrons passed through two slits are back to only two bands like a particle (knows it's being watched)?

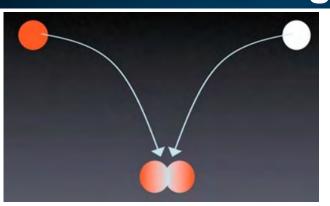


Quantum Mechanics (Superposition)



Double slit experiment shows this superposition

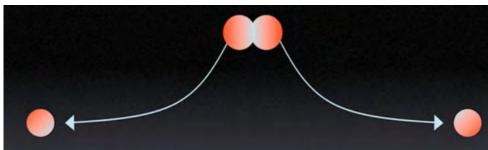
Quantum Entanglement * Leo Kouwenhoven







3. Measure left & BOTH change instantly (conservation of color)

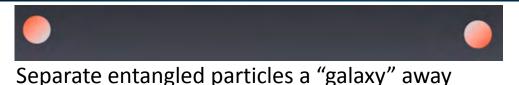


2. Pull them a "galaxy" apart - stay entangled



Physicists: Particles aren't communicating across distance, but there's a correlation!

Quantum (Teleportation) * Leo Kouwenhoven





Bring another particle to left one



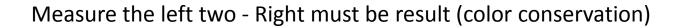






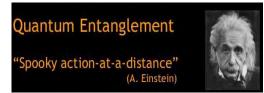






Why Physics Couldn't solve this in the Past

- Too many Nobel Prize winners that relied and believed exclusively in Classical Physics!
- It didn't make sense with the Theory of Relativity introduced by Einstein years Earlier "Spooky Action at a Distance."

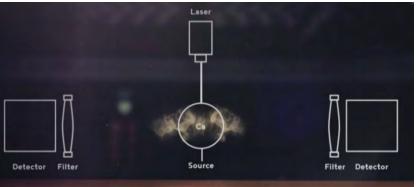


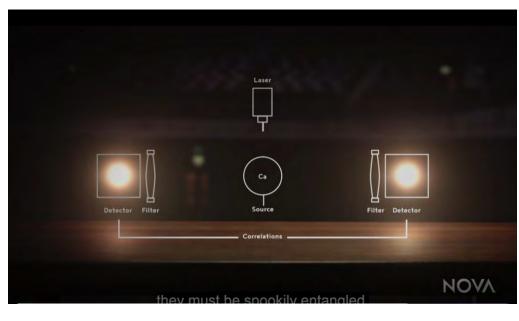
- The 1927 Conference have various people from many different areas working on many different things.
- The reason they eventually DID come up with a Quantum Theory
 (QT) had to do with the quality of people in this group and the years
 that came after with some trying to disprove it (most notably EPR Einstein-Podolsky-Rosen; QT Incomplete)

John Clauser & Stuart Freedman Experiment

- Read J.S. Bell article on E-P-R & proved it with entangled photons.
- Did the test in the paper in 1972 (won the Nobel Prize in 2022)



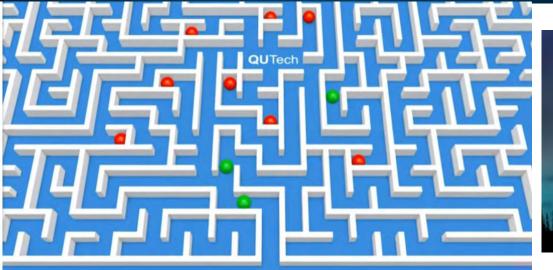




Experiment Proved Entanglement: Calcium Atoms

2nd proof measuring light from space did the same

Quantum allows us to try all paths at once!

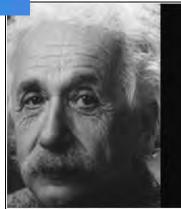


If quantum mechanics hasn't profoundly shocked you, you haven't understood it yet.

Niels Bohr

If all this damned quantum jumping were really here to stay, I should be sorry, I should be sorry I ever got involved with quantum theory.

Erwin Schrödinger

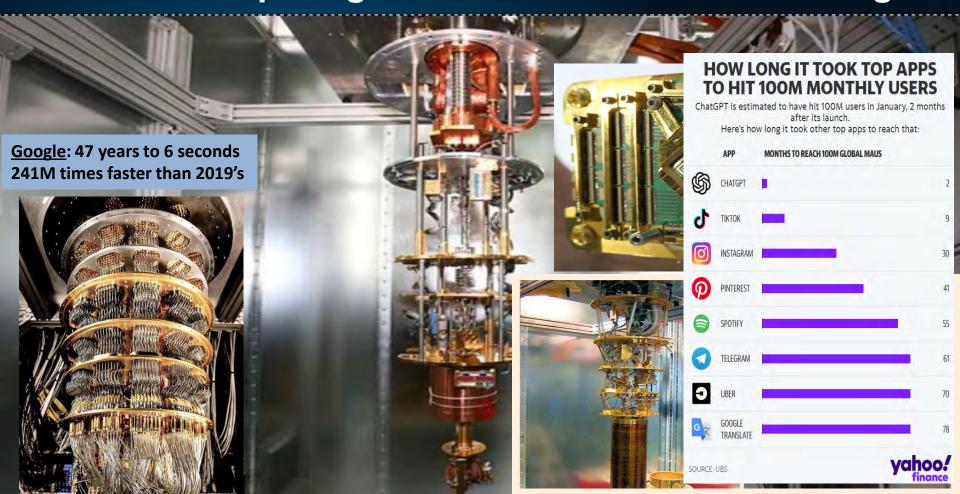


If [quantum theory] is correct, it signifies the end of physics as a science.

Albert Einstein -

AZ QUOTES

Quantum Computing: Al & Robotics are Fast Enough!



Where Entanglement may change Life as We Know It

Quantum Entanglement and Al: Redefining Connections

Quantum entanglement, a key feature in quantum mechanics, introduces "action at a distance" into AI integrated with quantum computing. This phenomenon, where entangled particles instantaneously affect each other across distances, challenges our traditional views of space and time.

Integrating this with AI could revolutionize data processing. Quantum-AI

Human Entanglement With Organic And Artificial Intelligence

Not science-fiction but science reality



Marc Barham · Follow

Published in Counter Arts - 7 min read - Aug 26, 2023

uchicago news



Podcasts / Big Brains: All Episodes

Why Quantum Tech Will Change Our Future: The Day Tomorrow Began (Ep. 104)

- Unbreakable Encryption
- Speed of AI Development & Processing
- Expedite Drug Treatments / Discoveries
- MRI Scans more detailed
- Entangle through Fiber Optics

How quantum technology is changing the world



Al Transfer Learning - Heisenberg Quote

"Through the possibility of exchange between the representatives of different lines of research, this conference has contributed extraordinarily to the clarification of the physical foundations of the quantum theory. It forms, so to speak, the outward completion of the quantum theory." - Werner Heisenberg



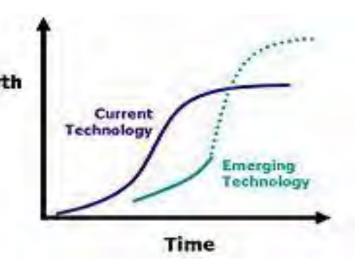
Innovation Path



- Innovation is introducing something new or different!
 - Idea, Product, Process, Organization, Structure...etc.
- Innovation is not what you find in **some** companies today... which is why **newer** companies <u>continue to</u> replace them!
- Are you leveraging IT (Quantum Computing /AI /Robots / IOT/ Big Data/ Chatbots with LLM's) to create innovative products and experiences for your customers? Are you an innovative company?
- There are organizations that are NOT missing the boat...
 they leverage all of these to deliver innovative products!

Diffusion of Innovation (Everett Rogers) How innovation spreads & is communicated...

- 1. First knowledge
- 2. Forming an attitude
- 3. Decision to adopt or reject
- 4. Implementation and use
- 5. Confirmation of Decision



Gabriel Tarde – 1903 (The S-curve or Diffusion Curve); "In the later stages no amount of new investment in that product will yield a normal rate of return."

Disruptive Innovation Examples

- Postal Mail
- Telegraph
- Morse Telegraph Key (circa 1844)

- Trains
- Metal / Wood / Glass
- Pictures (Chemical)
- Computer
- Floppy/Zip Drive



- Encyclopedia
- Filing Cabinet

- Email
- Telephone / Cell Phone
- Cars / Planes
- Plastics
- Digital Pictures



- USB
- Wikipedia
- Database







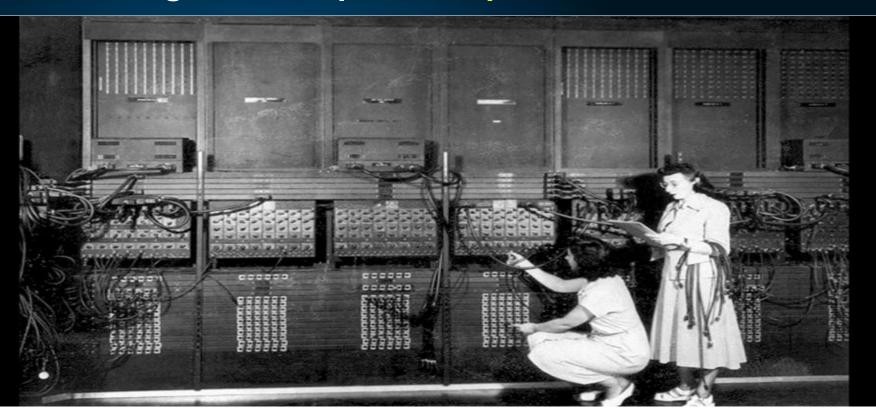
Disruptive Innovation Current Examples

- Email
- Telephone/Cell Phone
- Cars / Planes
- Digital Pictures
- Smartphone/Tablet
- USB
- Wikipedia
- Database

- Text/Snapchat/Instagram
- Implant / Smart Watch
- Virtual Calls & Meetings
- VR Life Record
- Apple Watch / IOT
- Cloud / Google Docs.
- Alexa & Siri
- Autonomous Database



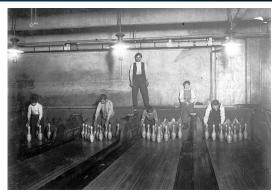
Some Jobs gone: Computer Surpassed Them!



"The competition between Man's Mind vs. the Product of Man's Mind... for this, there is standing room only in the Twilight Zone." Rod Serling

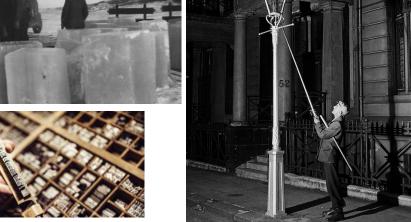
The Obsolete Man















The Brain Center at Whipple's & ChatGPT



























GUEST

It's time for workers to worry about Al

GARY GROSSMAN, EDELMAN @GARYG02 APRIL 7, 2019 2;22 PM



MOST READ



It's time for workers to worry about AI



Remote AR will make it so we can work -

Symbiotic coming Relationship; You & Robots



Deepen your digital skills with our NEW Executive Certificate in Digital Business.

COURSES FOR CERTIFICATE ONLINE COURSES ORGANIZATIONS

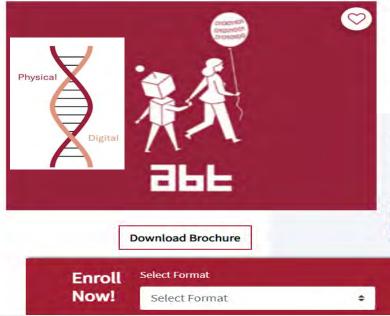
NDIVIDUALS PROGRAMS

ONLINE ORGANIZATIONS

SLOAN SCHOOL

WEBINARS, BLOG & MORE

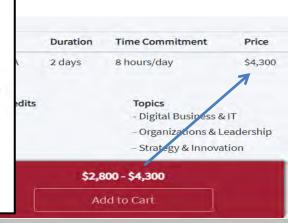
Courses for Individuals



Accelerating Digital Transformation with Algorithmic Business Thinking

favorite takeaways, to effectively harness advancements in technologies, organizations need to engineer the human centered genes into their organizations and "take the robot out of the human".

Martha Anderson Sr. Director, Digital
 Transformation at Walmart



Mirror Image









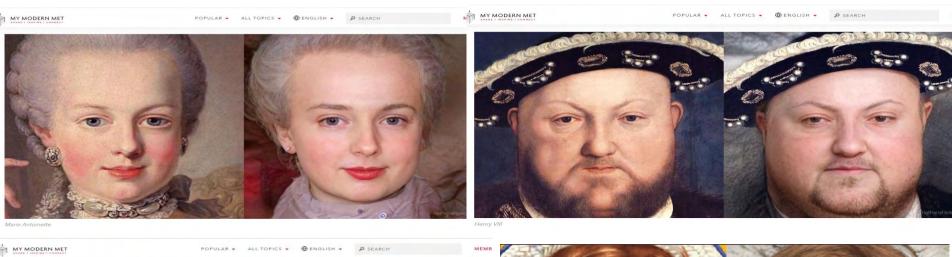




Actual Robots Now... Beyond Science Fiction



Fun with Machine Learning! (@CitizenPlain)







Leverage – DB, GPS & Robotics! Impact to Jobs?





A Robot may not look one!

- *Robots that Manage a Database (ADW) 24x7!
- *Robots that secure a system & use Auto-ML & Al

From Agnes with Love (Computers try to help)













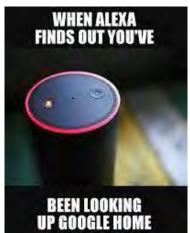












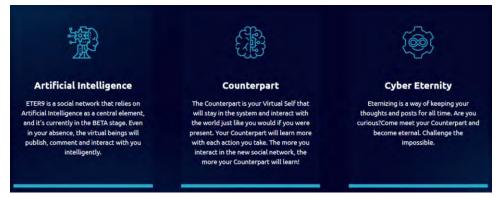
In His Image (Available Now - 100K+ Waiting List)





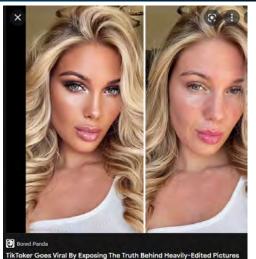






Number 12 Looks Like You (2023)





TikTok guidelines said not to promote posts







hide or disguise the presence of



BEFORE

AFTER















Living Doll



















These dolls are spying on your kids, consumer groups say

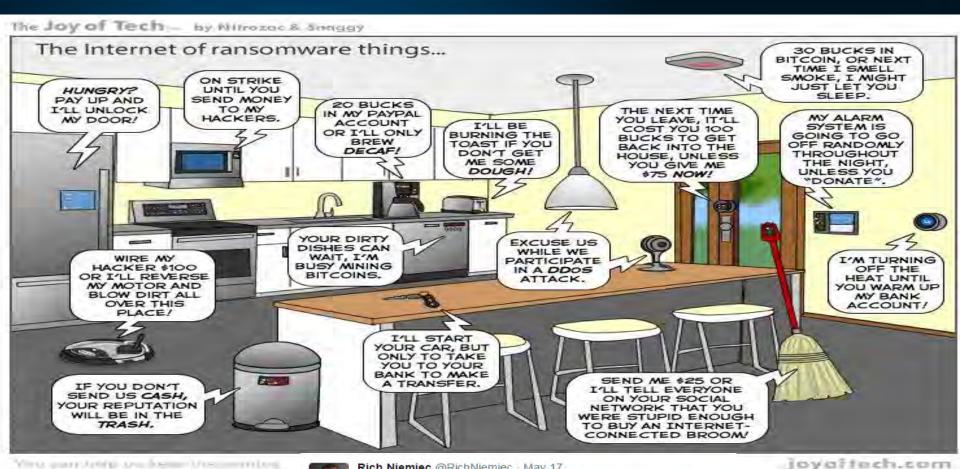






"Privacy advocates try to keep 'creepy,' 'eavesdropping' Hello Barbie from hitting shelves," Sarah Halzack, Washington Post

Ransomware now in the Comics:







ChatGPT (OpenAI)

Interact with our flagship

language models in a

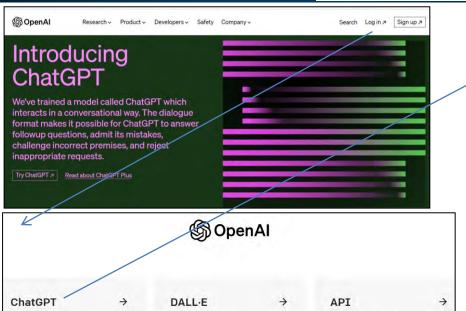
conversational interface

Learn more about Sora

GPT-4 has arrived. It will blow ChatGPT out of the wat The Washington Post 3/14/2023

ChatGPT was launched on November 30, 2022, by San Francisco-based OpenAI (the creator of the GPT series of large language models; DALL. E 2, a diffusion model used to generate images; and Whisper, a speech transcription model).





Introducing Sora: Creating video from text

Create realistic images and

art from a description in

natural language

Integrate OpenAI models

into your application or

business

what are the top 10 databases

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\$

As of my knowledge cutoff in September 2021, the top 10 databases were:

- Oracle Database: A relational database management system (RDBMS) known for its scalability, security, and comprehensive features.
- MySQL: An open-source RDBMS widely used for web applications due to its simplicity, reliability, and compatibility.
- Microsoft SQL Server: A popular RDBMS developed by Microsoft, known for its strong integration with Windows Server and seamless integration with other Microsoft products.
- 4. PostgreSQL: An open-source object-relational database management system (ORDBMS) known for its extensibility, robustness, and compliance with SQL standards.
- MongoDB: A NoSQL database that uses a flexible, document-oriented model and is known for its scalability, performance, and ease of use.
- 6. IBM Db2: A family of database management systems developed by IBM, known for its reliability, scalability, and support for a wide range of applications.
- SQLite: A lightweight, file-based, embedded database engine that requires no separate server process and is commonly used in mobile and embedded systems.
- Redis: An in-memory data structure store that can be used as a database, cache, or message broker. It is known for its high performance and flexibility.
- Cassandra: A distributed and highly scalable NoSQL database designed for handling large amounts of data across commodity servers and providing high availability and fault tolerance.
- 10. Amazon DynamoDB: A fully mana Segenerate response vice provided by Amazon Web

Google's Bard (Now Gem

■ Bard Experiment

() Reset chat

Bard Activity

? FAQ

Updates

Help

R

What are the top 10 databases

Here is a brief overview of each of the top 10 databases:

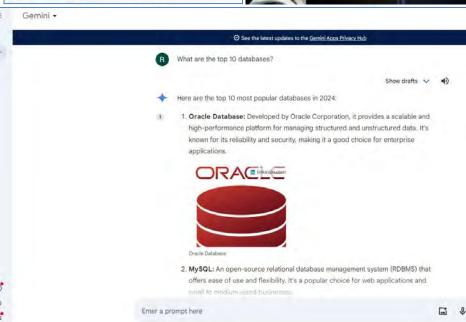
Oracle is a commercial database that is known for to store and manage large amounts of data.

MySQL is an open-source database that is known applications that need to be scalable and easy to represent the scala

- Microsoft SQL Server is a commercial database the businesses that use Microsoft's Windows operating
- PostgreSQL is an open-source database that is kn store complex data or that need to be highly scala
- MongoDB is a NoSQL database that is known for large amounts of unstructured data.
- Redis is a NoSQL database that is known for its sp manage large amounts of data in real time.
- IBM DB2 is a commercial database that is known f store and manage large amounts of data.
- Elasticsearch is a search engine database that is I search and index large amounts of data.
- Cassandra is a NoSQL database that is known for store and manage large amounts of data in a distr
- MariaDB is a fork of MySQL that is known for its s
 MySQL is not available or when a more stable database is needed.

Build, tune, and deploy foundation models with Vertex Al







Illinois, USA
 From your IP address • Update
 location

Enter a prompt here





What You Need; Nick of Time (Predictive Analytics)



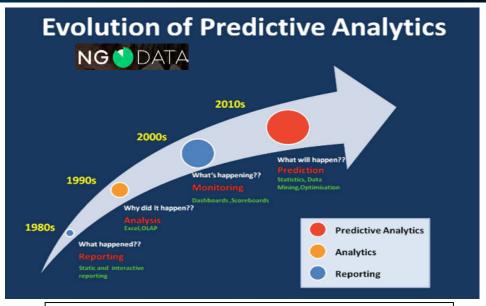


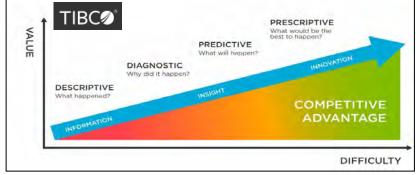




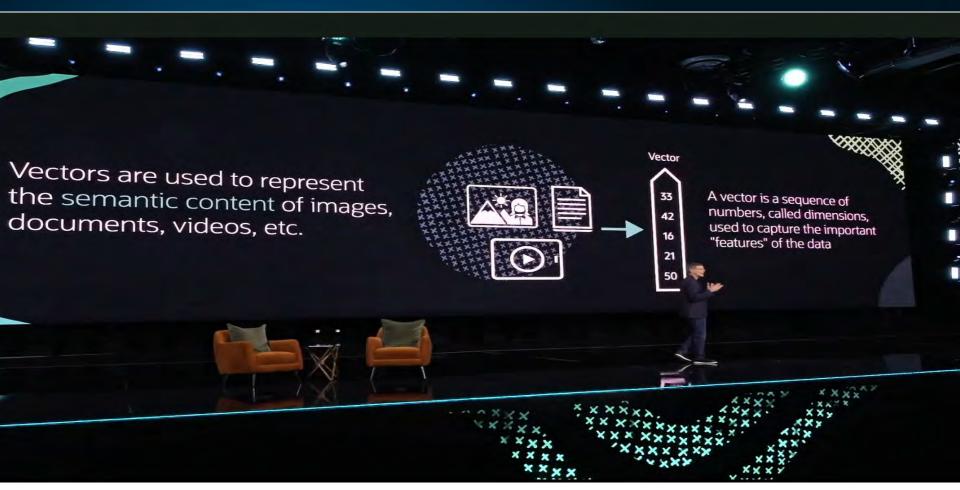




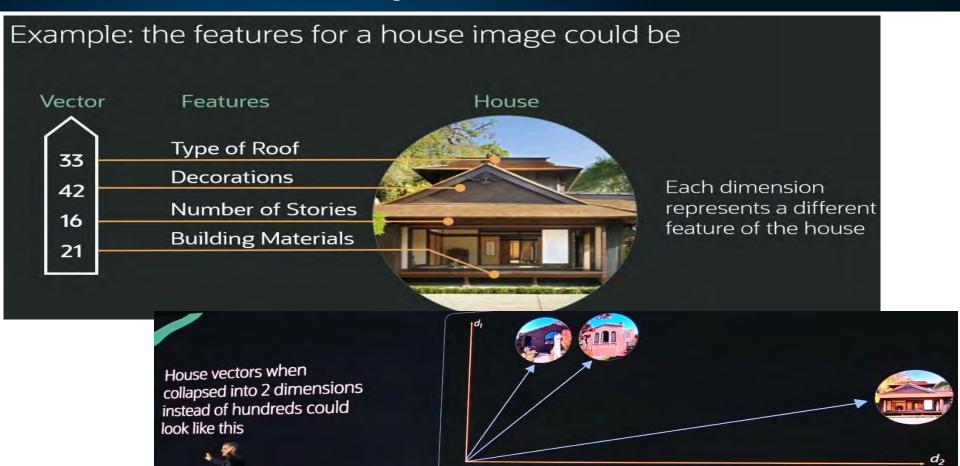




Search on Data with AI Vectors & Vector Indexes



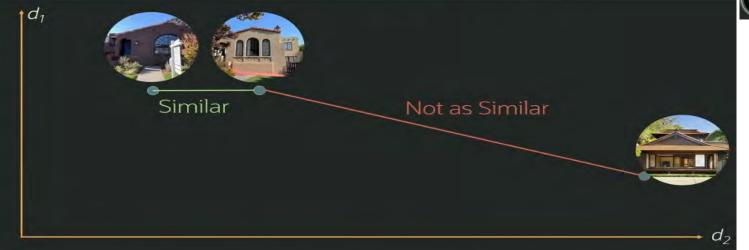
Great Oracle Example of a Use Case

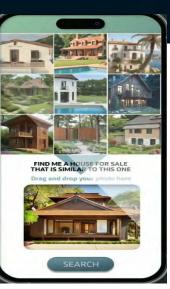


Vector Search

Imagine a house-hunting app that helps customers find houses for sale that are similar to a picture the customer uploads

The distance between the vectors is proportional to their semantic similarity





Create table with Vector Data Type & Blob

```
CREATE TABLE house for sale (house id
                                         number,
                                         number,
                             price
                             city
                                    varchar2(400),
                            house photo blob,
                            house vector vector
);
```

Find houses that are similar to this picture and match the customer's preferred city



```
and budget
 SELECT ...
 FROM house for sale
 WHERE price <= (SELECT budget FROM customer ...)
        city in (SELECT search_city FROM customer ...)
 AND
 ORDER BY vector distance(house vector, :input vector);
```

Search on vector (GenAI), add prices/locations



Machine Learning Accelerates Programming*



Activity Recognition



if(speed<4){
 status=WALKING;</pre>



if(speed<4){
 status=WALKING;
} else {
 status=RUNNING;
}</pre>









11 3333

Machine Learning Accelerates Programming*



Activity Recognition



Label = WALKING



Label = RUNNING





1001010011111010101 11010101111010101110 101010111101010<mark>1011</mark> 1111110001111010101

Label = BIKING



1111111111010011101 0011111010111110101 010111010101010101110 1010101010100111110

> Label = GOLFING (Sort of)

Better World - Leverage Tech!

Steve Wozniak on Al: Will we be pets or mere ants to be squashed our robot overlords?

Apple co-founder Steve Wozniak predicts a 'scary' future when artificial intelligence takes



Leveraging – DB, Al & Virtual Reality!



Virtual Reality



- > Immersion in virtual worlds
- > Total interaction with virtual
- > E.g. Oculus Rift



Mixed Reality



- > Virtual World integrated to reality
- > Interaction between reality and virtual
- E.g. Microsoft HoloLens



Augmented Reality



- Virtual on top of reality
- > Limited interaction with the virtual
- E.g. Smartphones & tablets

Walking Distance (View your Past - "time circuits on")



Developer Creates VR Time Machine To Relive His Past Year

July 13, 2020 - by Bobby Carlton















A World of Difference (Getting Closer)

















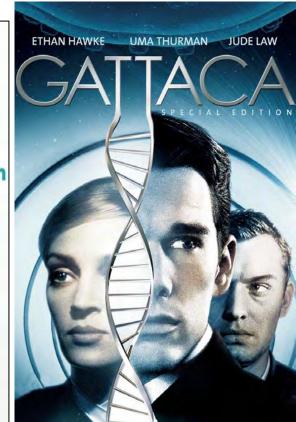


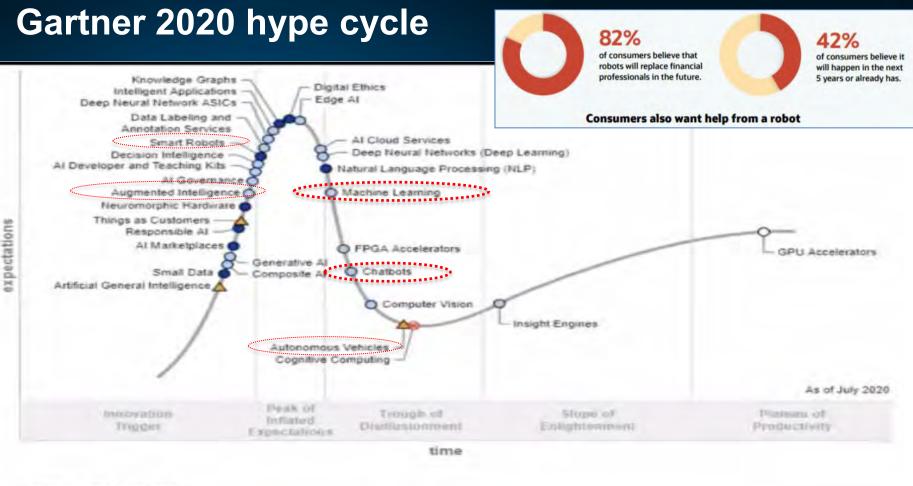




Leveraging – DB & Medicine





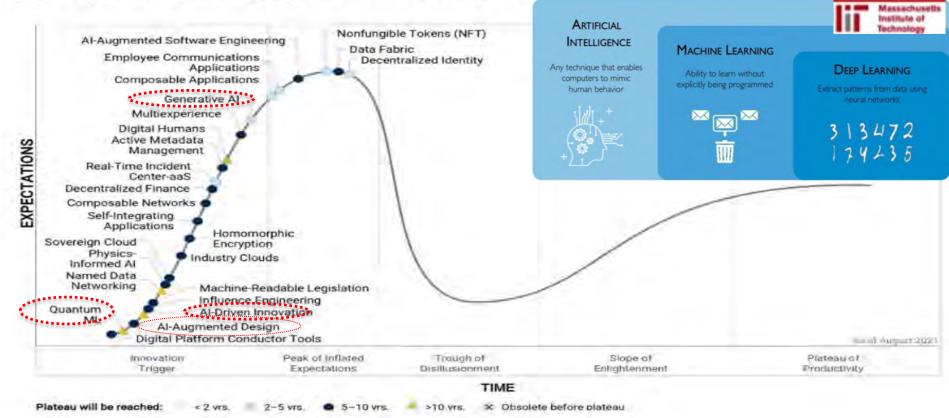


Plateau will be reached:

O Rese than 2 years 🔘 2 to 5 years. 🌑 5 to 10 years. 🛕 more than 10 years. 😵 obsolute before prateur

Gartner 2021 hype cycle for **Emerging Tech**

Hype Cycle for Emerging Technologies, 2021



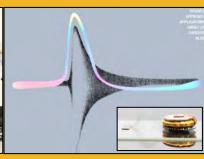
Source: Gartner (August 2021) 61

The Digital Transformation Ahead

Digital Transformation 2000 to 2050

A historically significant change in humanity...

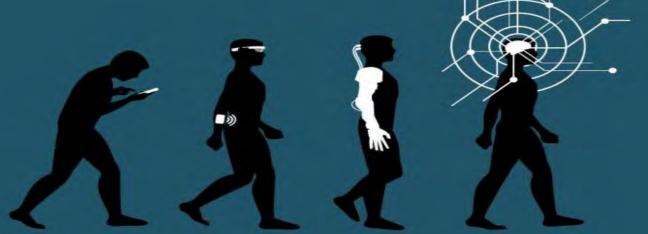








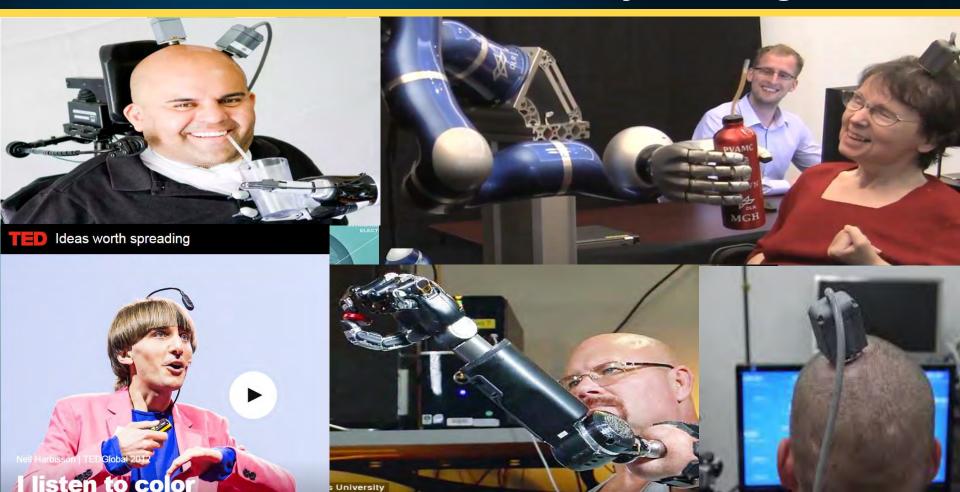




The Future of Implant Technology



Connection to the Brain – Currently Working



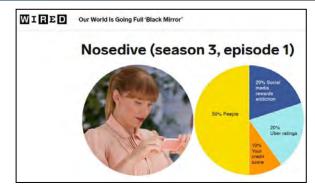
Black Mirror out Dec. 2011- Dystopian

BLACK MIRROR

Nosedive: (Social Meeting Addiction & Ratings)

 Hated in the Nation (Cancel Culture)





Be Right Back (ETER9)



- The Entire History of You

 (Kapture / Google Glass / Google Clips)
- Metalhead (Robot Dog)





Leveraging – DB & IOT (Criminals)



Ransomware May Soon Infect Smart Homes, **Smart Cars**

TUESDAY, FEBRUARY 21, 2017 5:50 PM GMT

















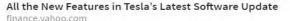
Tomer Cohen Vice President of Product at LinkedIn

+ Follow

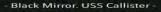
It used to be all about iOS upgrades and now the excitement goes to Tesla upgrades. Not a Tesla owner but still excited.

...see more





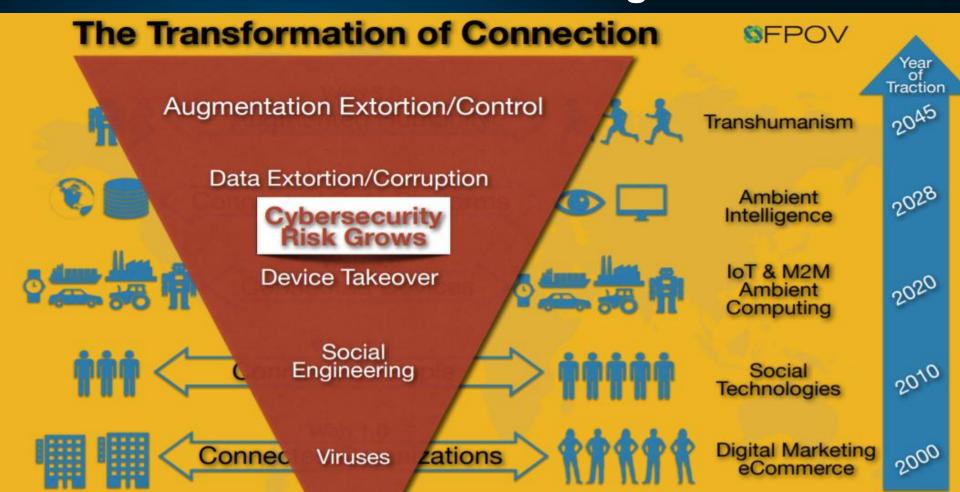








The Issues to Overcome moving Forward...



Security is still the Top Al application!

Detecting Security Intrusions Is Top AI Application in 2018

Application areas of artificial intelligence (AI) in organizations worldwide in 2018







Digital – How did we go from Magical to Toxic?





A Thing About Machines - People Frustrated

















Final Thoughts... world changing fast!

"Those who use things of the world should not become attached to them. For the world in its present form is passing away."

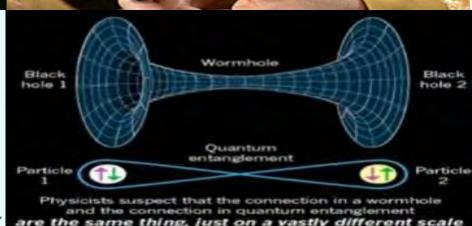




We are now shifting from the Information Age to:

The Age of Entanglement

As technology and humanity continue to converge the repercussions on our future are staggering...



Star Trek

- Communicator Motorola Flip Phone
- Phaser EPM or Stun Gun / Taser
- Tablets (Medical) Tablet Computers
- Tricorders Many Medical Devices (below)
- Translators Google Translate (others)
- <u>Tractor Beam</u> MIT has it in concept
- Telepresence Zoom Virtual Conferences
- Geordi's Visor Robotic Eyes / Implants
- Communicator Badges Many Security Badges
- Food Replicator 3D Printer
- Holodeck VR
- Teleportation Quantum Entanglement
- Big Screen TV Everyone has it
- Hands Free Phone Bluetooth headset / Airpods

















Hololens VR Apps Above



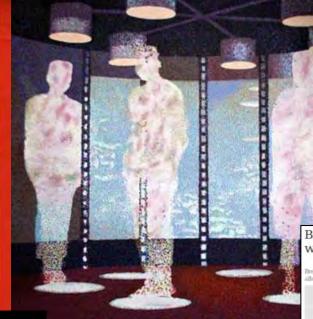
Microsoft working on Holodeck



Final Thoughts... world changing fast!

<u>The Singularity</u>: Humans Transcend Biology





THE SINGULARITY IS NEAR

Brain implant controls robotic arm with the power of thought

Breakthrough as neuro-prosthetic device implanted in "higher" brain region, allows paralysed man to control robotic arm just by thinking about it

Quantum Entanglement

"Spooky action-at-a-distance"
(A. Einstein)





Summary - Apply Technology & W.I.N.

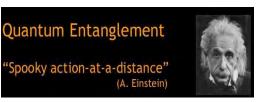


- ☐ Economic Potential of GenAl & Robots
- What is Entanglement
- Why Entanglement will Matter
- ☐ Entanglement Effect on Quantum Computers
- ☐ Physics Couldn't Solve It In 1927
- ☐ Entanglement may Change Life as We Know It
- ☐ Machine Learning Future, Robots & VR ← FYI





ONLINE TECH EVENTS
COMMUNITY BUILDING





Time Enough at Last for AI & Acceleration with Quantum















The After Hours (Future Sentience Issues Ahead)























- Is now a Citizen
- Wants to get degree
- Wants to have kids
- What is Alive?
- Sentience Issues?
- Robot's Feelings?
- Ethical Issues +++

3 Types of Artificial Intelligence

Artificial Narrow Intelligence (ANI)



Stage-1

Machine Learning

 Specialises in one area and solves one problem







Artificial General Intelligence (AGI)



Stage-2

Machine Intelligence

 Refers to a computer that is as smart as a human across the board Artificial Super Intelligence (ASI)



Stage-3

Machine Consciousness

 An intellect that is much smarter than the best human brains in practically every field

Final Thoughts... Catch your Ride!





"Things may come to those who wait, but only the things left by those who hustle."



— Abraham Lincoln

The Age of Entanglement!

"A masterful account of the phenomenon Einstein thought so crazy it could not possibly be true, (Only it is!)" —DR. MARCUS CHOWN, author of The Universe Next Door

THE GOD EFFECT

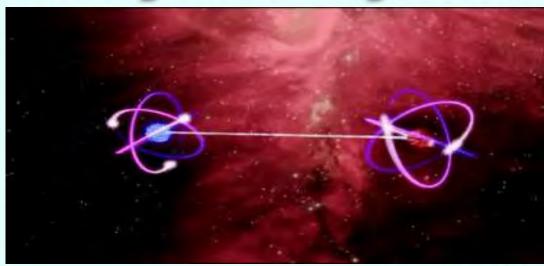
QUANTUM ENTANGLEMENT, SCIENCE'S STRANGEST PHENOMENON

> TIME TRAVEL, TELEPORTATION, AND THE ULTIMATE COMPUTER

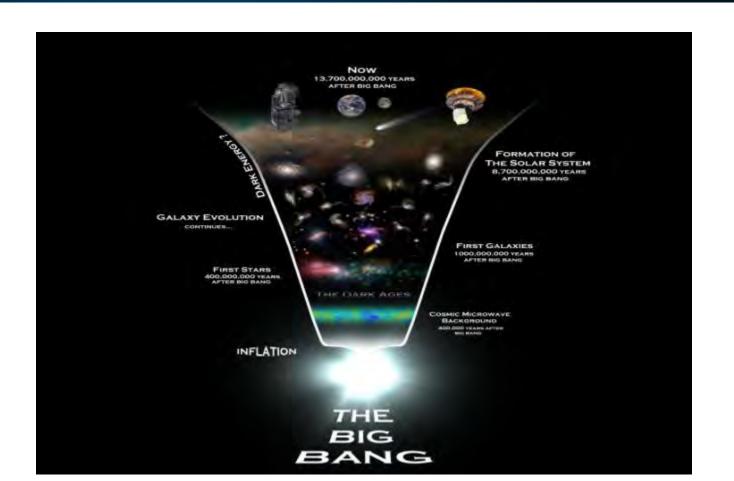
BRIAN CLEGG

We are now shifting from the Information Age to:

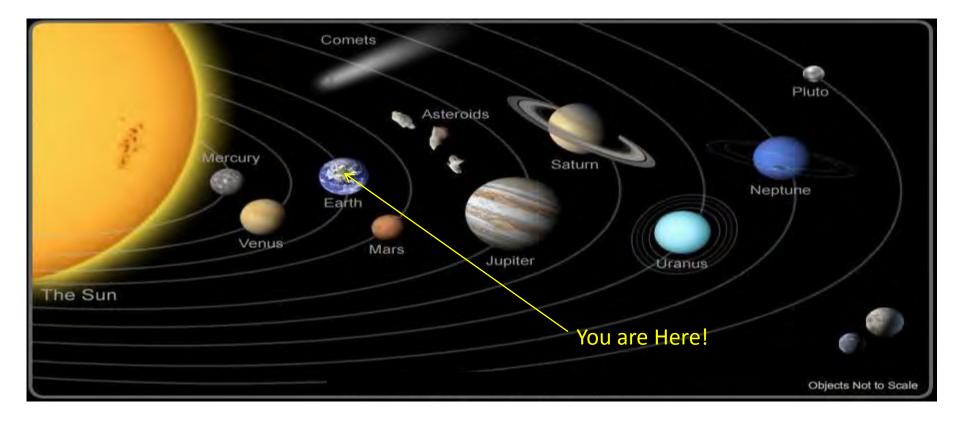
The Age of Entanglement



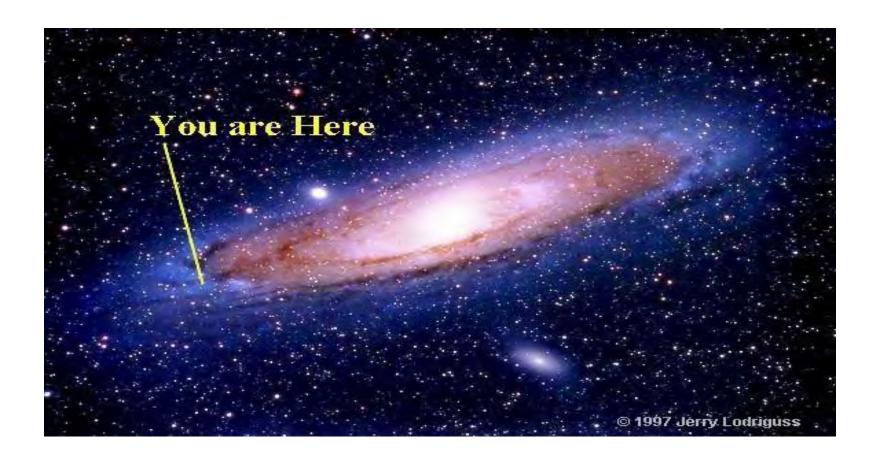
YOU Live in an AMAZING Time!



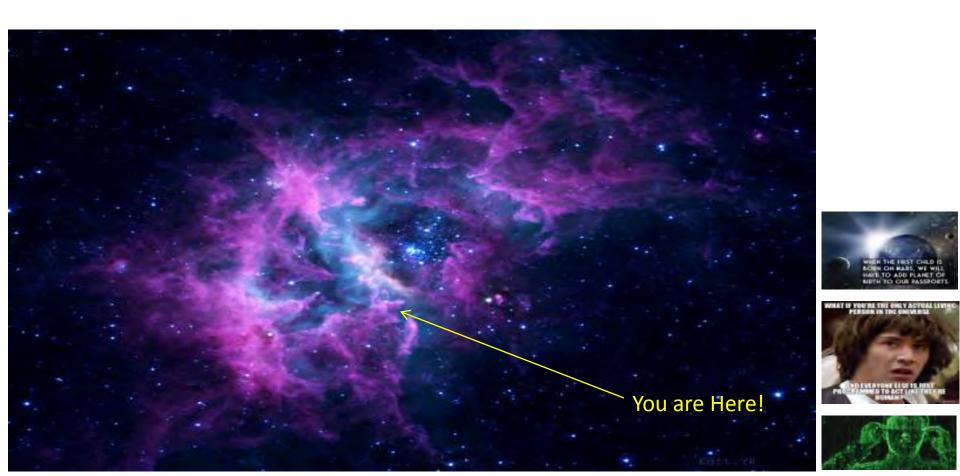
You are Here in the Solar System



You are Here in the Milky Way Galaxy



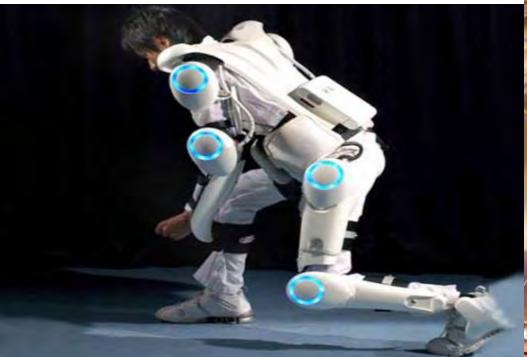
You are Here in the Universe



"We make a Living by what we get; We make a Life by what we give."

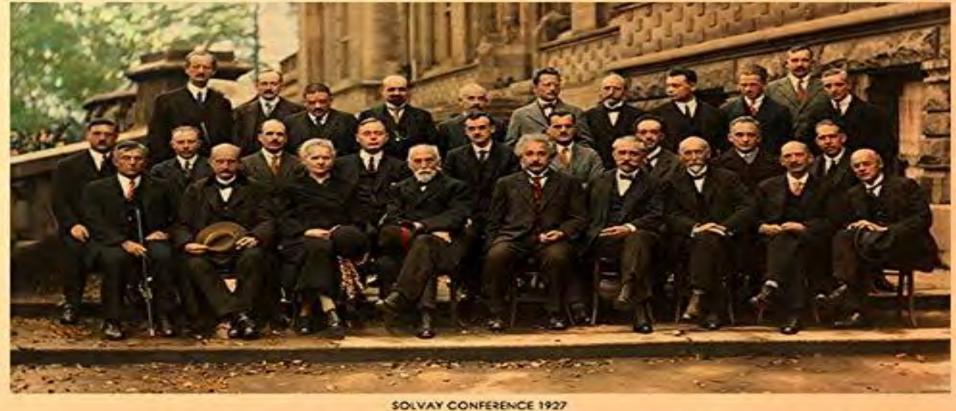
Google/Cyberdyne augments people: Implants are coming ... started with prosthetics, AI, Quantum Computers

Be a Future Tech Leader! (Integrating Tech)





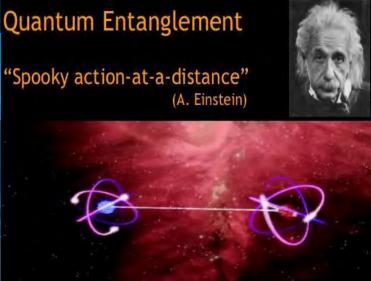
1927 Solvay Conference Color Poster (On Amazon)



Absorb : Sr W.H. BRAGG, W. DESLANDRES at C. VAN AUBEL

Entanglement hits IT World





The Age of Entanglement

As technology and humanity continue to converge the repercussions on our future are staggering...



Quick FREE notes

Send email to (for slides): hello@viscosityna.com

(richniemiec@gmail.com)

@richniemiec - twitter

ONLINE TECH EVENTS COMMUNITY BUILDING

98%

of the FORTUNE 100 Run Oracle Database

