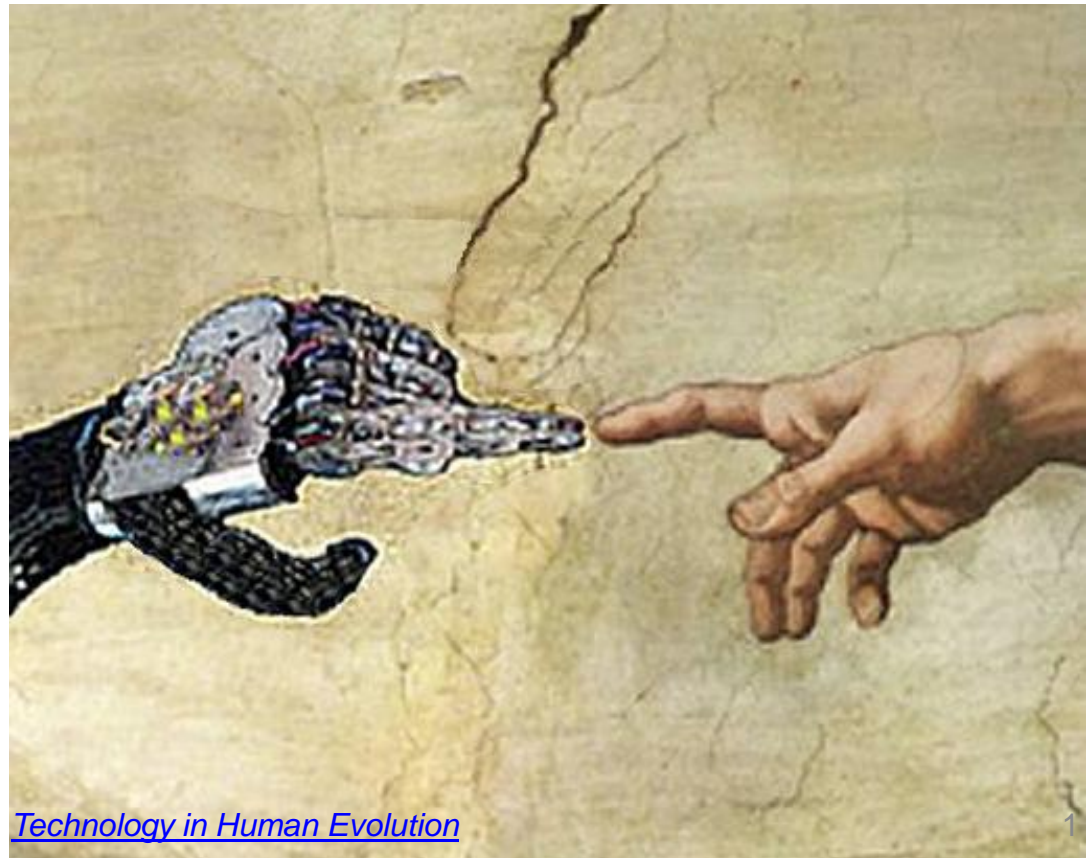




# THE ROLE OF TECHNOLOGY IN HUMAN EVOLUTION PART 2

Exploring The Western Path

HOW Cafe  
Andrew Linnell  
[jandrewlinnell@yahoo.com](mailto:jandrewlinnell@yahoo.com)  
[www.thechristianmysteries.org](http://www.thechristianmysteries.org)





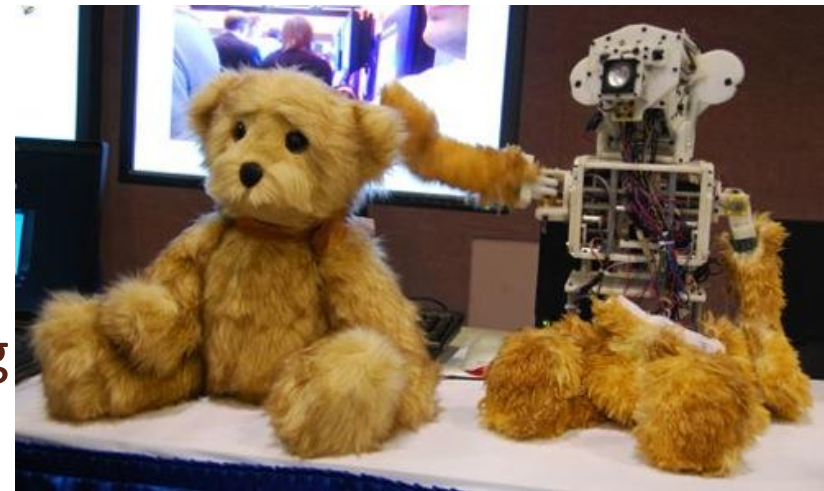
# RECAP PART 1

- Prometheus: chained to rock, released only by initiation and the sacrifice of a centaur
  - Image of our times, we are so chained, centaur within each
    - Attack on the liver: pain pills, vicodin, statins, hepatitis, alcohol
  - “Upon this rock I build my church” – Christ-Jesus
- Hephaestus: thrown off Olympus, returns on donkey
  - God of technology and fire, one foot malformed
- Rise of artificial intelligence and artificial soul
  - Why? Evolution? Stay tuned for answer next week
- Merging of Mankind and Machine
  - Science of prosthesis, will centered
  - Why? Evolution? Stay tuned for answer next week
  - Slippery slope, sneaks in for altruistic purposes

# FROM BABY MONITORS TO ...



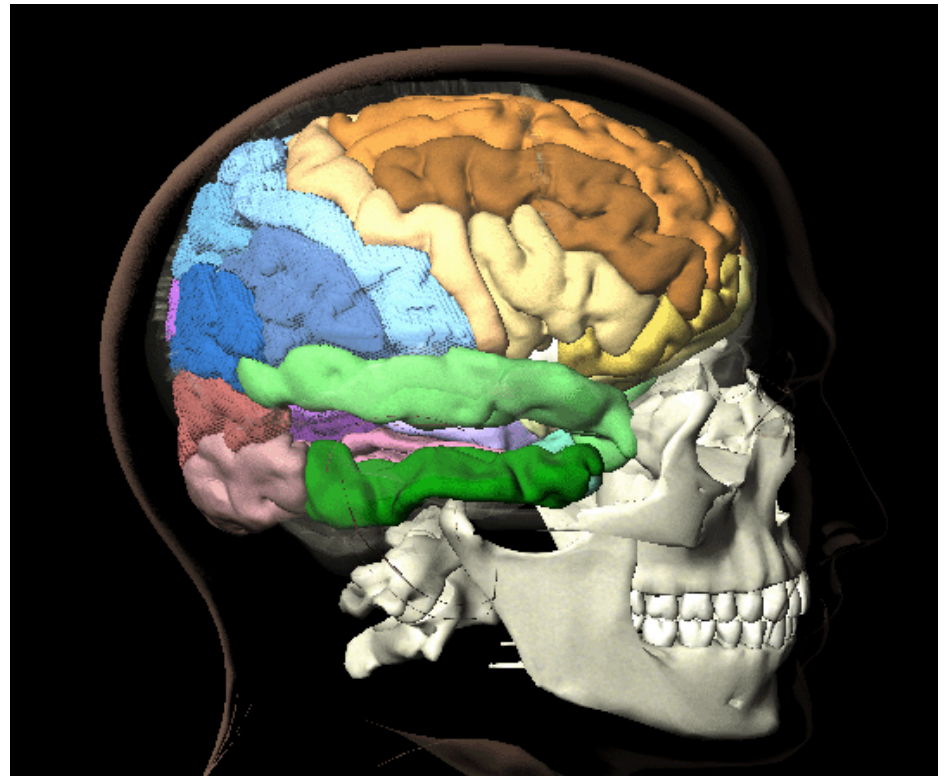
- At the baby shower, one gift will be the baby's companion – a robot!
- Companion will accompany the baby till adolescence
  - Protection, safety – never get stolen, or lost
  - Communication – no cell phones (but still cell towers)
  - Playmate, “doll”, “pet”
  - Task helper
  - Schooling assistant
  - Personal shrink
- Attachment of a second being
  - The double, doppelgänger
    - Foolishness of spirituality



# COMING SOON: BRAIN AUGMENTATION AT FIRST TO MAKE USE OF PROSTHETICS

Embed at birth

- Google Glass, Apple Watch functionality
- iPad functionality
  - Voice recognition
- GPS & RFID
- Wireless internet
- Credit card, SSN
- Internet of Things
  - Wearables
- Health sensors
- Psychological guides
- Embed at birth?





# BUT SMART MACHINES OFFER EMANCIPATION

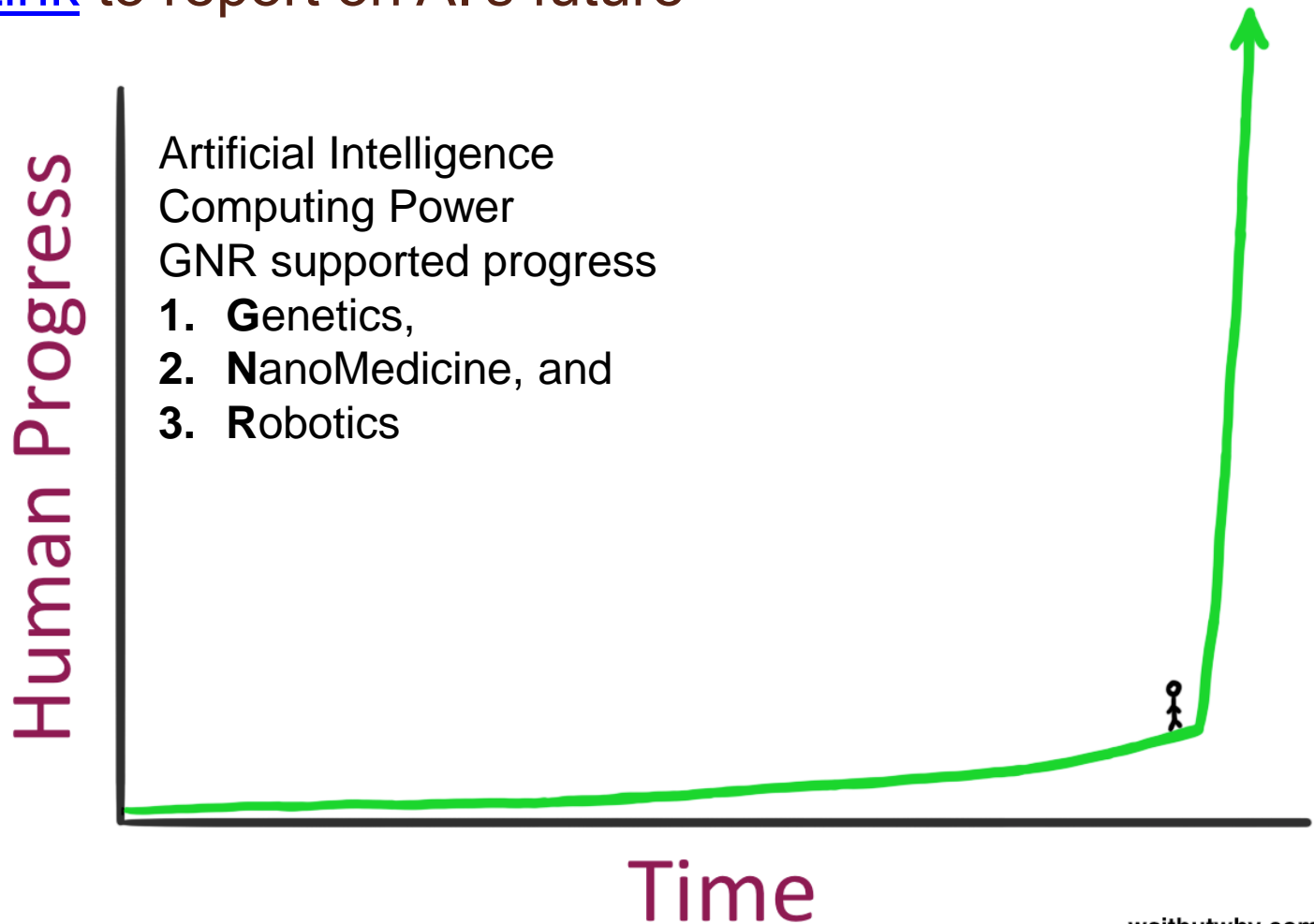
“FREEDOM’S JUST ANOTHER WORD FOR NOTHING LEFT TO LOSE”

Janice Joplin

- Will we lose our humanity?
- From what we dislike about our jobs
  - People? Complainers, office politics, lack of teamwork, ...
  - Numbers: records, reports, grunt work
  - Rat race: will they take over the urgency thereby relaxing us
- What can machines NOT do?
  - Is this what you like about your job?
  - Are we freed to be more creative, more human?
- Will we fall or rise as machines intimately enter?
- Created in Our (Human) Image
  1. Willing: Construction, transportation, weapons
  2. Feeling: Communications, manufacturing
  3. Thinking: Accounting, analyzing, modeling, databases, AI

# SINGULARITY ON A LINEAR GRAPH

[Link](#) to report on AI's future

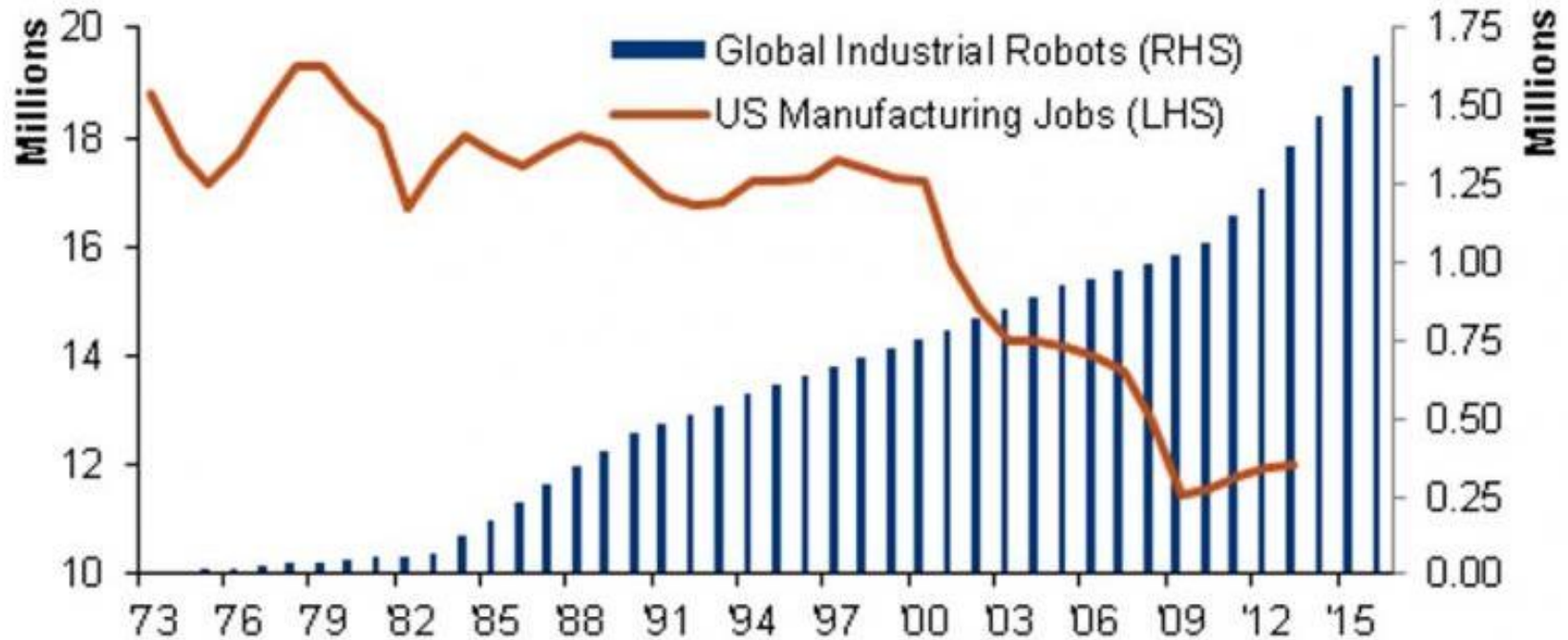


waitbutwhy.com



In the United States, agricultural employment fell from a majority of the workforce late in the 19th century, to less than two percent today – could that happen in Mfg.?

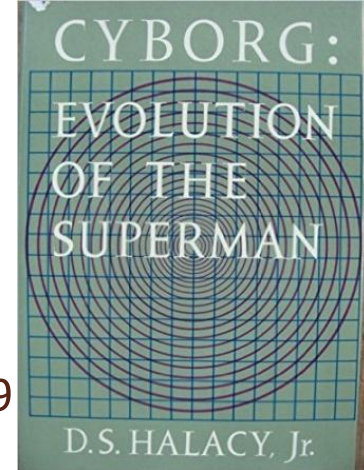
## IMPACT ON MANUFACTURING JOBS



- According to [PSFK](#), “The automation of labour is inevitable. Before the end of this century, 70% of today’s occupations will likely be replaced by automation.”  
*What sort of jobs will be left? Professional only?*
- No job is immune from impact: professionals, healthcare, design, art
  - Except, maybe, prostitution and the performing arts

# WHAT IS “GNR”? WHAT IS POST-HUMANISM

- Kurzweil’s Triune: **Genetics, NanoMedicine, and Robotics**
- Steiner: **Eugenics, Hygienic, and Mechanical Occultisms**, 19
- D. S. Halacy's *Cyborg: Evolution of the Superman* (1965)
  - New frontier at edge between ‘inner’ and ‘outer’ space
  - Does a **bridge between mind and matter exist?** (*we’ll look at this later*)
- Ray Kurzweil: “Within a few centuries our successors will be able to *redesign the entire universe according to their own preferences*. Posthumans will eventually ‘**spiritualize**’ everything in the universe”
  - “This will be about as close to God as I can imagine” [egoism’s goal?]
  - “The **freeing of our thinking from the severe limitations of its biological form may be regarded as an essentially spiritual quest**”
  - From R. Kurzweil’s *The Singularity is Near*
- Hans Moravec: The boundaries between biological and postbiological intelligence will begin to dissolve
  - **Human equivalence is just the beginning, not an upper bound**
  - Asks us to speculate about a plausible, wonderful postbiological future and the ways in which our minds might participate in its unfolding
  - From H. Moravec, *Mind Children: the Future of Robot and Human Intelligence*







# UNTIL THEN ...

- Having our minds “online” could mean the ability to upload and store memories in the Cloud, letting us access and replay them as we do with photos and videos now
  - And this is to say nothing of “**synthetic telekinesis**” (the ability to control our machines merely by thinking) and “**synthetic telepathy**”—a real possibility, if we are able to read and interpret complex brain waves
  - At this point, technology really will be verging on something almost like **magic**
  - *[Video of man controlling a robotic arm with brain waves using BCI  
Credit: OpenBCI]*
- And don’t forget all that cumbersome “**wetware**”—our physical bodies and fleshly minds—that we’ll still carry around with us
  - With advances in gene editing technology like **CRISPR**, even they will be suited to our liking
  - By then we’ll really be cooking as far as **rewriting DNA** goes—we’ll be able to download biological changes into our genomes that unaided evolution would require hundreds of thousands (or even millions) of years to achieve
  - We’ll be able **to edit out diseases** and unwanted **traits**, **prolong** our life spans, and incorporate the **best biological innovations of other species**
- But will we still be *human*?

<http://futurism.com/predicting-future-heres-homes-may-like-100-years/>



# POSTHUMANISM PREDICTS

- Posthumanism: “where technology and human flesh merge to create a form of life”
  - *(And the Word became flesh and dwelt among us)*
  - And Ahriman became flesh and dwelt among us
- A direct neural interface with the Internet for humans to be able to “plug into” and augment its own intelligence
  - Creating a vast thinking layer of the Earth that the French philosopher Teilhard de Chardin called the “noösphere”
- By uniting with AI we will usher in a new evolution

<http://futurism.com/predicting-future-heres-homes-may-like-100-years/>

# MORAL QUESTIONS



- A slippery slope: do good and evil evolve thru humanity?
- If someone is suffering, what do we do?
  - Christian impulse
  - Should we free someone in a biological prison?
    - Let them live a near-normal life
- Do we know what we are doing?
  - Risk/Benefit “equation” enough?
- Is there a role for illness? Suffering? Karma?
  - Who can judge if someone suffering should suffer?
  - Suffering and karma come from the good divine-spirits
    - Role of childhood illnesses, overcoming genetics, individualization
  - Will illness itself evolve when we no longer have bodies?



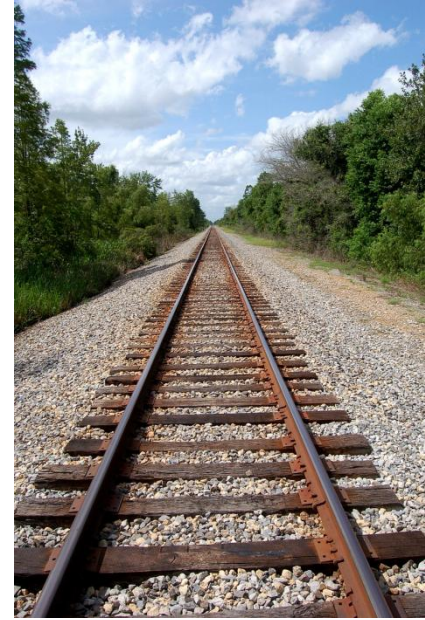
# NEED TO REALIZE: WHAT AI IS NOT

To do this, we must grasp what is the Human

- Oh Man, know thou thyself – Delphi and thru ages
  - Mankind as the focus of spiritual beings
  - Evolution from a spiritual perspective
  - The Human Stage
  - Evolution of the Earth
  - Mankind as spiritual beings with soul and body
- Compare to Darwinian evolution
  - Are we but animals lucky in the roll of the dice?
  - Will machines eventually not need us?
- What is consciousness? – What is Maya? What is Real?

# IT IS NOT THE WHAT BUT THE HOW

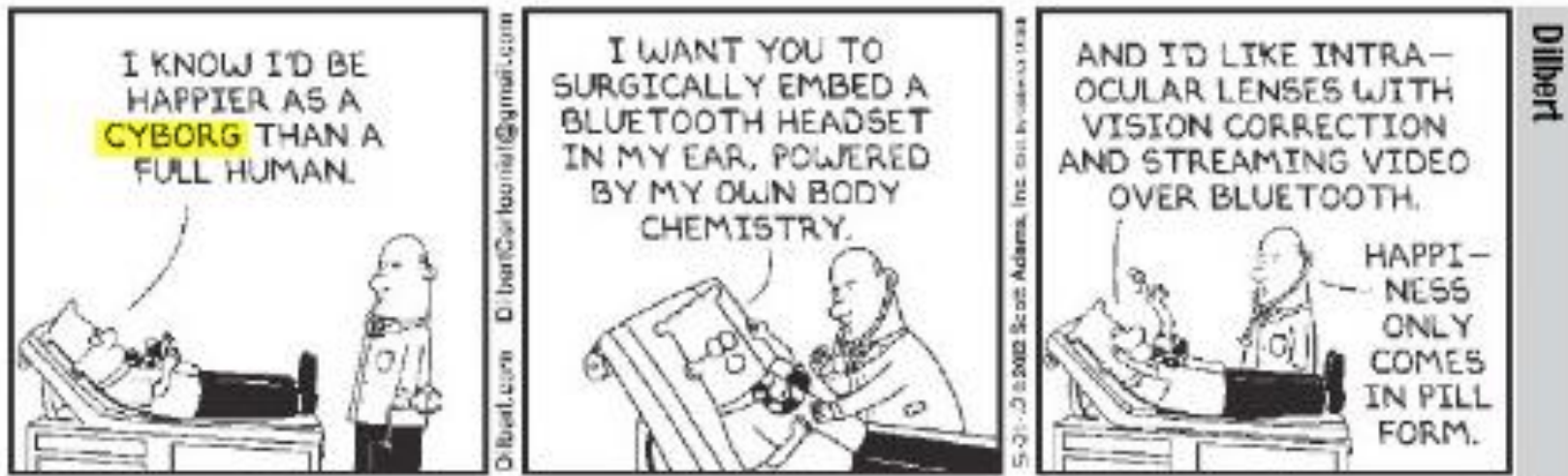
- What: iron necessity. How: human freedom.
- Futurologists see a What similar to Steiner's
  - How is their vision different from Steiner's?
- Is this a de-humanized future?
  - If so, how can it be changed?
  - Is our destiny better if Man and Machine do NOT merge?
  - Has such a dreary outlook ever occurred before in history?
    - The Flood (Atlantis), What happened to Lemuria?
    - God(s) brought prior destruction, this one will be by humans
- Body and Soul: What becomes of attaining Atma?
  - What will it mean to the Christ if our bodies cannot resurrect?
- Are we getting help from spiritual beings (e.g. angels)?



spirit

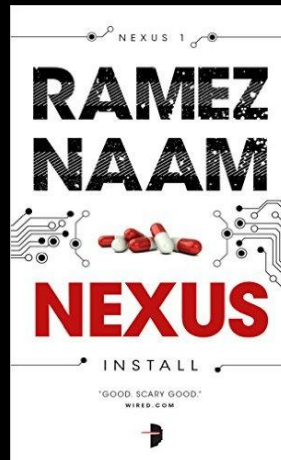
soul

life



# MACHINES ENTER OUR FEELING LIFE – ARTIFICIAL SOUL COMING?





DOMHNALL GLEESON alicia vikander and OSCAR ISAAC



Trailer 3  
Play 2:32



## Ex Machina <sup>R</sup>

In Theaters April 10th, 2015 | © 2015 A24

A young programmer is selected to participate in a breakthrough experiment in artificial intelligence by evaluating the human qualities of a breathtaking female A.I.

[f](#) [t](#) [Official Website](#) ▶



**Seduction of AI, Fear of Robotic Machines**  
Is this from Michaelic Insights? Robotic moral code?  
How is Ahriman to be met, balanced?



# FEAR OF ROBOTS TAKING OVER

- Robots “learning” bad behavior (from us)
- Robots “becoming” immoral (because we are)
- Robots built for military
  - Given a decision making role during emergencies
  - “Success in creating AI would be the biggest event in human history. Unfortunately, it might also be the last, unless we learn how to avoid the risks. In the near term, world militaries are considering autonomous-weapon systems that can choose and eliminate targets.” wrote Stephen Hawking The Independent 2014
- Example: HAL
- 2016: Stephen Hawking, Elon Musk, and Bill Gates warn about Artificial Intelligence
  - “Our greatest existential threat”

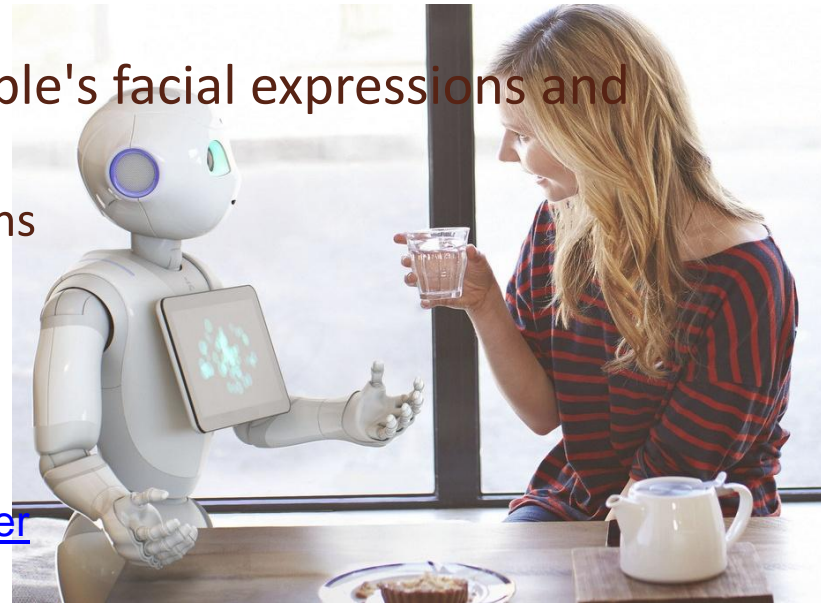
# COUNTER: “I LOVE MY APPLE”

- “It’s in Apple’s DNA that technology alone is not enough.
- That it’s technology married with liberal arts, married with the humanities, that yields us the result that makes our hearts sing.”
  - Steve Jobs when announcing iPad2, March/2011
- Balancing
  - Cold computing with
  - Warm personal, social use
- But ***Love*** our machines?



# FACIAL AND EMOTIONAL RECOGNITION

- Emotion recognition functions: “able to read emotions”
  - These emotion functions are modeled on the human release of hormones in response to stimuli absorbed by the five senses
- Autonomous emotion generator for its own (artificial) emotions
  - by processing information from his cameras, touch sensors, accelerometer and other sensors within his “endocrine-type multi-layer neural network”
- Emotions are influenced by people's facial expressions and words, as well as surroundings
  - Affects Pepper's words and actions
  - Happy when praised
  - Scared when the lights go down
  - Raises voice or sighs



<https://www.aldebaran.com/en/a-robots/who-is-pepper>



# OUR GOAL: DEVELOP LOVE AND FREEDOM

- Pygmalion —
- Pygmalion —
- When he first saw the statue, he was so struck by its beauty that he fell in love with it.
- Pygmalion —



*Pygmalion* by Jean-Baptiste Regnault, 1786, Musée National du Château et des Trianons

# HUMANOID ROBOTICS

- [5 Most Advanced Humanoid Robots USA/JAPAN](#)
  - Honda's Asimo, Boston Dynamics' Atlas, Aldebaran's Nao,
- Abyss Creations, RealDolls, [Robotica](#) NYT video
- [Hanson Robotics](#) “we bring robots to life” [TED talk](#)
  - “We aim to bring-to-market the most compelling and engaging humanlike robots with greater-than-human wisdom, that are capable of developing a deep, trusted relationship with people. Our mission is to create a better future for humanity by infusing artificial intelligence with kindness and compassion, achieved through millions of dialogs between our robots and the people whose lives they touch.”

[Video](#) on 13 humanoids





# WILL ROBOTS REPLACE MEN?

- “By 2050 all sex will be with robots”

<http://www.bbncommunity.com/robots-are-being-made-to-replace-men-by-2025/>



# ARTIFICIAL MATES, DOLLS TO SEXBOT (FOR WHEN YOU PREFER TO BE SINGLE)

- <https://www.youtube.com/watch?v=QYLYfLRg5dc>, Doll: \$1500, Sexbot: \$5000
- <http://fusion.net/video/266503/real-future-episode-6-sex-robots/>
- 'Realistic' skin, mouth and genitals – Human enough to satisfy an emotional need?



# ROXXXY THE 'HEALTHCARE' SEXBOT



- 2011 technology
  - Has conversations with you but never says “not tonight dear”
  - Multiple artificial personalities (set from a menu)
  - e-skin is responsive to touch
  - Change body parts
- 
- Will have simulated orgasm (dial for speed, simultaneous)
  - Sadly, for many the point is: it is better to have a relationship with a robot than no relationship at all
    - “Ain’t nothing like the real thing, baby” – or will this too change?
  - More sex robots: <https://www.youtube.com/watch?v=wLVOnVsLXqw>

# SEX AND VIRTUAL REALITY

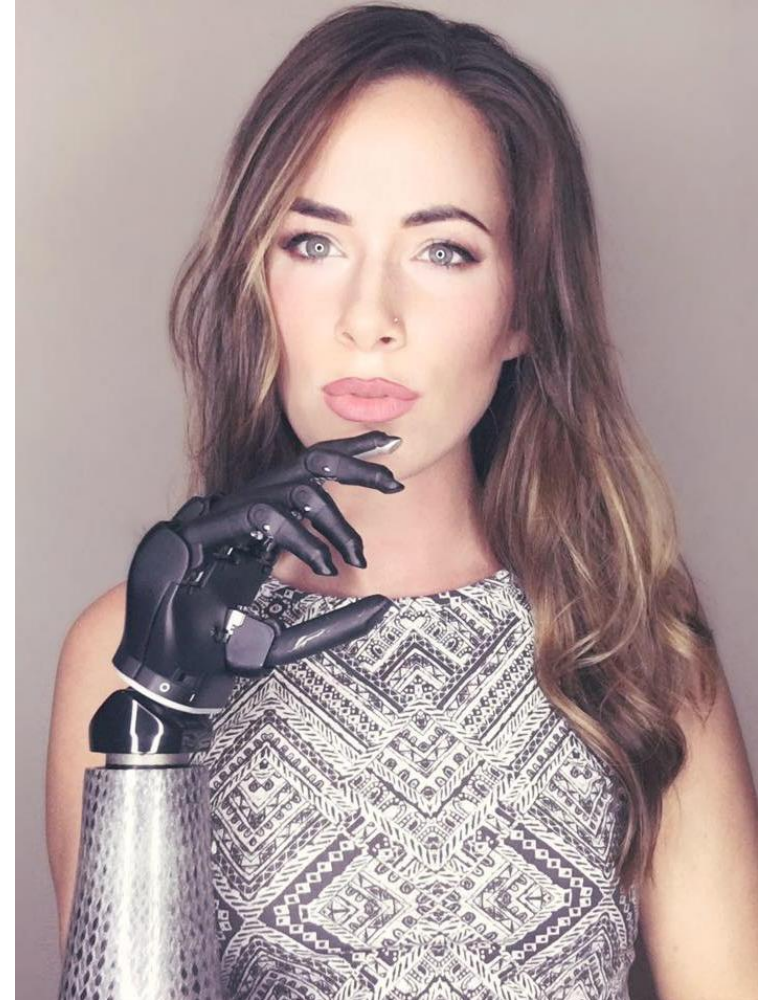
- Porn sites drove e-business on the internet
  - Will they drive virtual reality (or will gaming)?
- **Sex through a pair of Avatars:**
  - Enter your partner's avatar to experience through it
  - [http://www.huffingtonpost.com/2015/01/29/future-of-sex-podcast\\_n\\_6569838.html?utm\\_hp\\_ref=technology](http://www.huffingtonpost.com/2015/01/29/future-of-sex-podcast_n_6569838.html?utm_hp_ref=technology)
  - Will it become mainstream?
  - Human-human sex through internet+avatar – compare to phone
- Does it lead to a coming time of infertility?
  - Will people become possessive of their sexbots?
  - Will people prefer the 'safety' and guarantee of their sexbot?
  - Will parents buy their adolescent children a sexbot?

The logo for OhMiBod REMOTE, featuring the brand name in white text with a small red antenna icon above the 'i' in 'Bod', set against a blue background with a pattern of small, colorful dots.



# WHAT CAN WE FALL IN LOVE WITH?

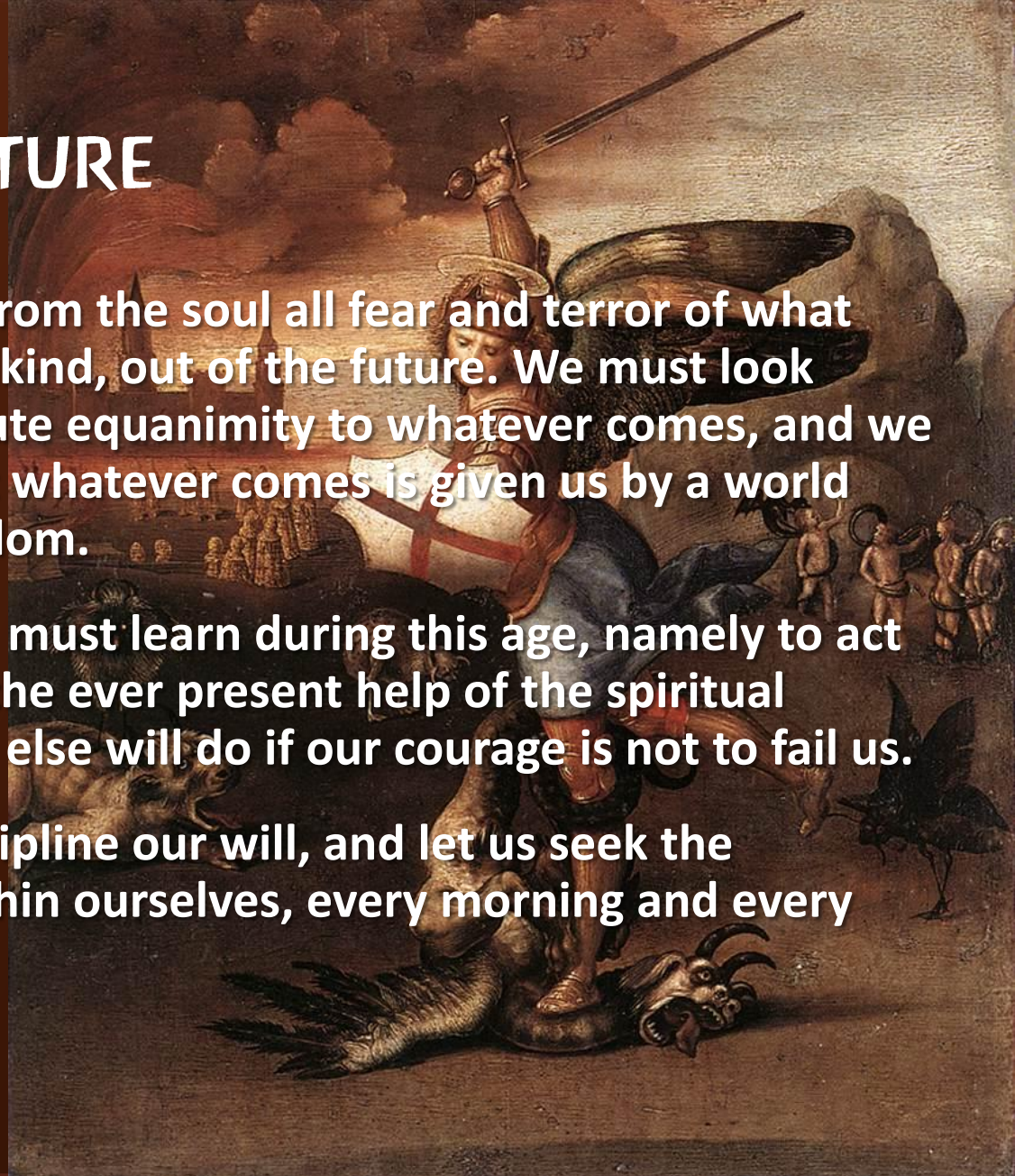
- Mate missing a finger?
- Missing an arm?
- Missing an arm & a leg?
- Transplanted face ?
- Can we love a person
  - With a pace maker?
  - With bionic eyes?
  - Who we know only through their avatar?



# FACING THE FUTURE

- We must eradicate from the soul all fear and terror of what comes towards Mankind, out of the future. We must look forward with absolute equanimity to whatever comes, and we must think only that whatever comes is given us by a world direction full of wisdom.
- It is part of what we must learn during this age, namely to act out of pure trust in the ever present help of the spiritual world; truly nothing else will do if our courage is not to fail us.
- Therefore let us discipline our will, and let us seek the awakening from within ourselves, every morning and every evening.

Rudolf Steiner







# RECAP PART 2 – MANY MORE QUESTIONS

- Augmentation of life, body, brain
  - Man-made world
- What are machines doing to us?
  - Jobs, servants, will
  - Emancipation (from what?)
- Machines with artificial intelligence, artificial soul
  - How will it affect our sense of humanity?
  - Will we ‘fall in love’ with a machine?
  - What will it mean for humans to have sex with machines?
  - What is missing?
- Merging Human and Machine
  - How many body parts can be replaced before love ceases?
  - Our spiritual goal: Love and Freedom



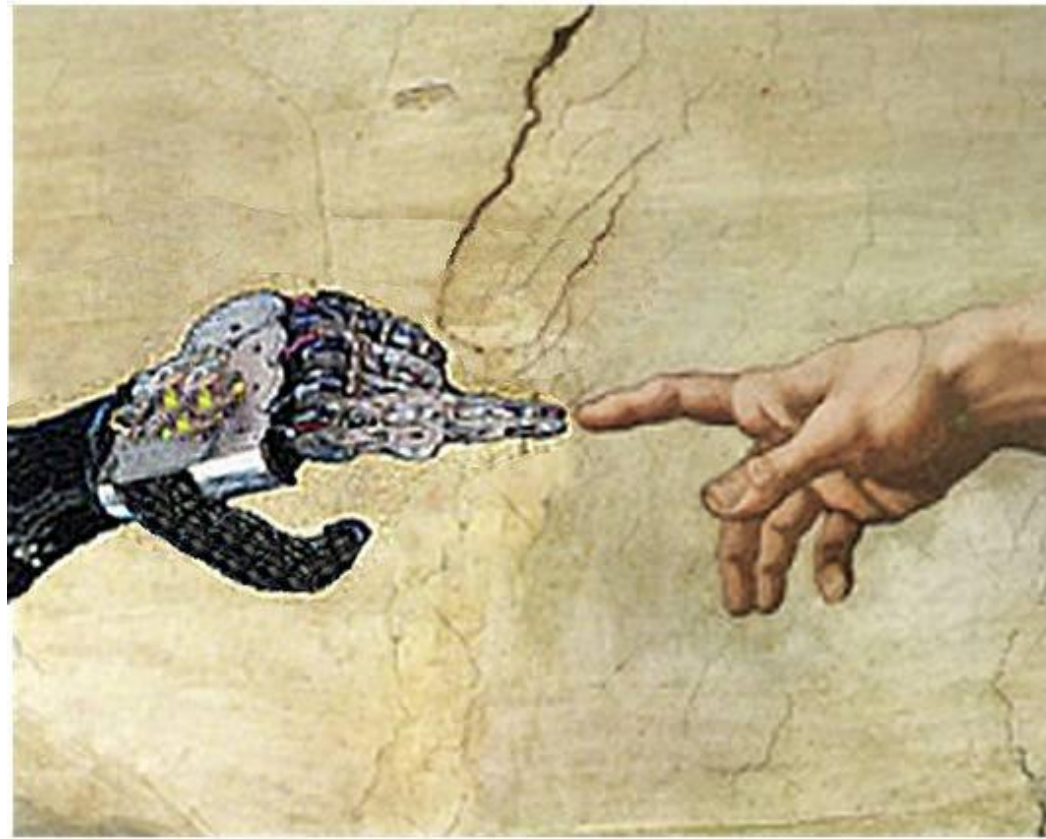
# NEXT WEEK

- The three main spiritual entities for earth and humanity
  - Lucifer, Christ, and Ahriman
  - Incarnations: 3<sup>rd</sup> M BCE, 1 AD, 3<sup>rd</sup> M AD
- Lucifer before Christ
- Christ and now Ahriman (Satan)
  - How Ahriman's impulse relates to computing
- Evolution of Consciousness – Future Infertility

spirit

soul

life



## END PART 2