University Experience

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Why Did You Come To The University?
Want to make a difference in the world
Love to learn more
Love to be here, but questioning what is the right field for me?
Discovering, who am I? What do I want? And What is my purpose?
A Degree will provide better opportunities
Parents or peer pressure
Independence and experiencing opportunities and different Cultures
Developing lasting and meaningful relationships
Combination of some of the above items
1 - Pay Attention to Technology Trends
1970: ~1000 Transistors / Chip (Integrated Circuit)
2020: ~34B Transistors / Chip

\[ 2^{25} = 33,554,432 \]

\[ 1000 \times 2^{25} \approx 34B \] (exponential Growth)

\[ 1000 \times 25 \approx 25K \] (Linear Growth)
- September 21, 1983
- Motorola DynaTAC 8000X
- full charge ~10 hours, ~30 min of talk time
- Price: ~$4K USD
- Weight: ~2LB
Year: 1999 ..... 2019 ..... 2039?

Growth = $2^x \times \text{Something}$

Twitter, Cloud, 4G, LinkedIn, Apps, Google, Amazon, Uber, Airbnb, Skype, Robots, Waze, WeChat, WiFi, Apple!

<table>
<thead>
<tr>
<th>Ticks!</th>
<th>$2^x$</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>4</td>
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<tr>
<td>4</td>
<td>16</td>
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<tr>
<td>6</td>
<td>64</td>
</tr>
<tr>
<td>8</td>
<td>256</td>
</tr>
<tr>
<td>10</td>
<td>1,024</td>
</tr>
<tr>
<td>20</td>
<td>1,048,576</td>
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<tr>
<td>25</td>
<td>33,554,432</td>
</tr>
<tr>
<td>30</td>
<td>1,073,741,824</td>
</tr>
</tbody>
</table>
The World’s Most Valuable Brands 2018 by Country

Brand Finance Global 500

United States $150.8B
Canada $13.8B
United Kingdom $19.6B
Netherlands $39.4B
Switzerland $19.4B
France $22.2B
Norway $8.2B
Spain $17.5B
Bulgaria $10.6B
Sweden $24.4B
Belgium $4.2B
Finland $8.4B
Austria $7.6B
Russia $11.6B
Belgium $4.2B
Germany $43.9B
Saudi Arabia $6.7B
South Korea $92.3B
China $59.2B
Japan $43.7B
Mexico $8.4B
Colombia $3.9B
Brazil $8B
India $14.2B
Spain $19.4B
Italy $10.6B
Sri Lanka $1.7B
UAE $7.7B
Singapore $6.5B
Thailand $4.9B
Australia $12.4B
Indonesia $5.2B

Brand Strength Index
- More than 90
- 85 - 90
- 80 - 85
- 75 - 80
- Less than 75

How to read this map: The map shows the most valuable brands in selected countries. Each country is sized to reflect the value of its most valuable brand (the more valuable a brand, the bigger the size of the image). The colours represent brand strength, out of a maximum of 100.
2 – Understand Big Global Challenges
AlphaGo then went on to compete against legendary player Mr Lee Sedol, winner of 18 world titles and widely considered to be the greatest player of the past decade. AlphaGo's 4-1 victory in Seoul, South Korea, in March 2016 was watched by over 200 million people worldwide.
A. High Income

B. Low Income

Predicting individual-level income from Facebook profiles

Sandra C. Matza1, Jochen L. Hunger2, David J. Stillwell3, H. Andrew Schwartz4

1 Columbia Business School, Columbia University, New York, NY, United States, 2 Department of Business Administration, University of Zurich, Zurich, Switzerland, 3 Judge Business School, University of Cambridge, Cambridge, United Kingdom, 4 Department of Computer Science, Stony-Brook University, Stony-Brook, NY, United States
3 – Get Use to Working In Teams
Blue River

Agriculture robotics to reduce herbicides in agriculture
4 – Focus On Your Mindset
Emotion Machine!
Neurons, Hormones & Genes
Biochemical Algorithms!
What Causes a Behavior?
Evolution, Inheritance, Upbringing,
Environment, Experience & Culture
PERSONALITY ASSESSMENT FOR INDIVIDUALS

See yourself in a new light
5 – Always Have Skin In The Game
China’s CRISPR babies could face earlier death

A genetic mutation that protects against HIV leads to a shorter life span, researchers find.

by Antonio Regalado  
Jun 3, 2019

*When the Chinese scientist He Jiankui created the first gene-edited children, he dreamed of improving the world. He believed the genetic alteration he added to twin girls born last year would protect them from HIV. Human embryo editing, he said, would bring new hope to millions.*
Many Experts Say We Shouldn’t Worry About Superintelligent AI. They’re Wrong

Stuart Russell’s new book, *Human Compatible*, explores ways to ensure that superintelligent machines don’t pose a danger

By Stuart Russell
6 – Improve Your Communication Skills
7 – Take Control Of Your Career
Your career is your business, and you are its CEO.

- Andrew Grove, Former Chairman & CEO

“There are so many people working so hard and achieving so little.
—Andy Grove”
Susan Wojcicki and her Menlo Park garage, where it all began.
"I skate to where the puck is going to be, not where it has been."
-- Wayne Gretzky
1 - Pay Attention to Technology Trends

2 – Understand Big Global Challenges

3 – Get Use to Working In Teams

4 – Focus On Your Mindset

5 – Always Have Skin In The Game

6 – Improve Your Communication Skills

7 – Take Control Of Your Career
- **Prepare & Focus:**
  - Detailed understanding of fundamentals
  - Form Team with Diversity & Candor
  - Get use to Problems, Anomalies & Ambiguity
  - Supplement your courses with Online-content

- **Know Your Professors:**
  - Areas of Strength & Expertise
  - Industry Associations, Conferences & Journals
  - Master & PhD Students & Alumni (Mentors!)

- **Priorities & Time Management:**
  - Get use to Goal settings and Metrics to measure progress

- **Enjoy the Ride:**
  - Form Friendship & Get to know yourself
  - Don’t fly under the Radar!