



The Importance of Upskilling in a Skills-Based Economy

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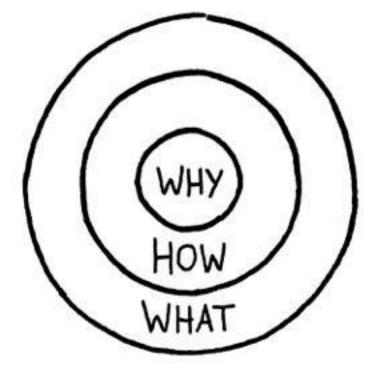
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Paolo Balinas



The Golden Circle



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What

Every organization on the planet knows WHAT they do. These are products they sell or the services they offer.

How

Some organizations know HOW they do it. These are the things that make them special or set them apart from their competition.

Why

Very few organizations know WHY they do what they do. WHY is not about making money. That's a result. It's a purpose, cause or belief. It's the very reason your organization exists.





WHERE DO YOU SEE YOURSELF 5,10, 20 YEARS FROM NOW?





U





VOLATILITY

The challenge is unexpected or unstable and may be of unknown duration, but it's not necessarily hard to understand; knowledge about is often available.

UNCERTAINTY

Despite a lack of other information, the event's basic cause and effect are known. Change is possible but not a given.

COMPLEXITY

The situation has many interconnected parts and variables. Some information is available or can be predicted, but the volume or nature of it can be overwhelming to process.

AMBIGUITY

Casual relationships are completely unclear. No precedents exist; you face "unknown unknowns."

"We have seen two years' worth of digital transformation **in two months.**"

Contactless shopping

Remote selling

Curbside pickup

Virtual Visits

Remote learning

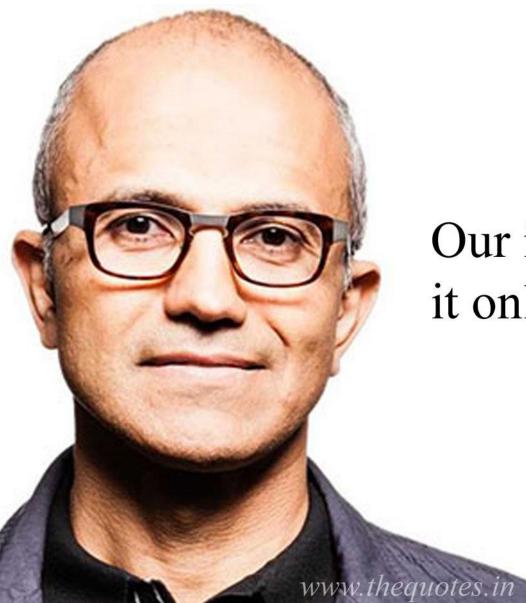
Telehealth

Secure remote teamwork

Remote development

Satya Nadella

Microsoft CEO



Our industry does not respect tradition - it only respects innovation.

Satya Nedella

Companies are moving to a world beyond titles and designations wherein our world is moving to a more skills-based economy.



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The Rise of A Skills-Based Economy

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It is true that technology is eliminating the jobs that humans used to do – but it is not a purely destructive force.

In Singapore, with the information and communications technology (ICT) industry being a critical growth area, the demand for ICT professionals is slated to increase by 42,300 over a two-year period from last year.

However, there is also a current lack of abundance – in the professionals with the suitable skillsets required for these ICT roles. As Former Minister for Manpower Mr Lim Swee Say said, "Should Singapore be hit by higher unemployment, it will be because of a shortage of skills – as a result of the widening jobs-skills mismatch – and not a lack of jobs."

As automation and artificial intelligence (AI) take over the repetitive and

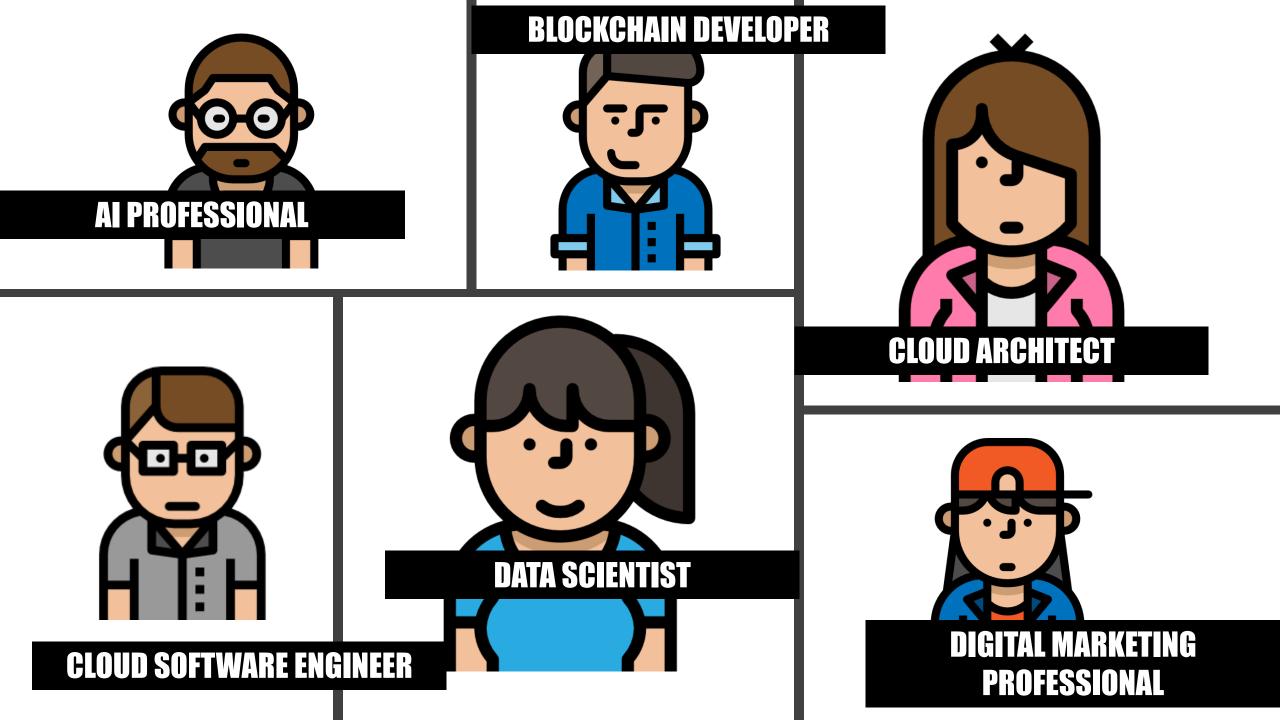
Skillionaire

n. – a person rich in skills



General Successful individuals don't adapt, they prepare

- Greg Satell, "Harvard Business Review"



The future looks very different for our students

Recent advancements in technology such as automation and AI will affect tasks in virtually all occupational groups in the future.

The fastest-growing occupations will require higher-level cognitive skills in areas such as collaboration, problem-solving, critical thinking, and creativity.



65% of students in grade school will perform jobs that have not been invented yet



47% of current jobs are expected to be taken over by machines during the next two decades



65K new IT jobs by **2024**, most in cloud-related technology fields



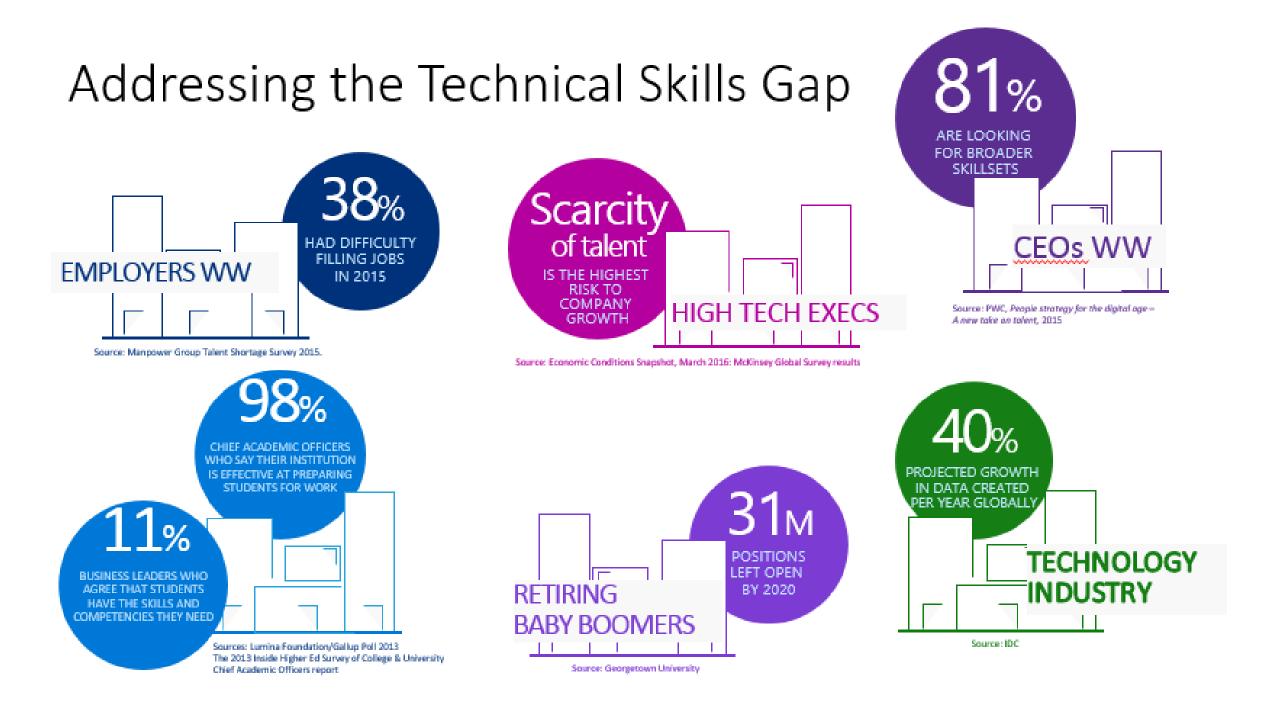
Only **33%** of the world's demand for employees with technology skills is being met



In less than a decade, **77%** of jobs will require technology skills

BOODING BS

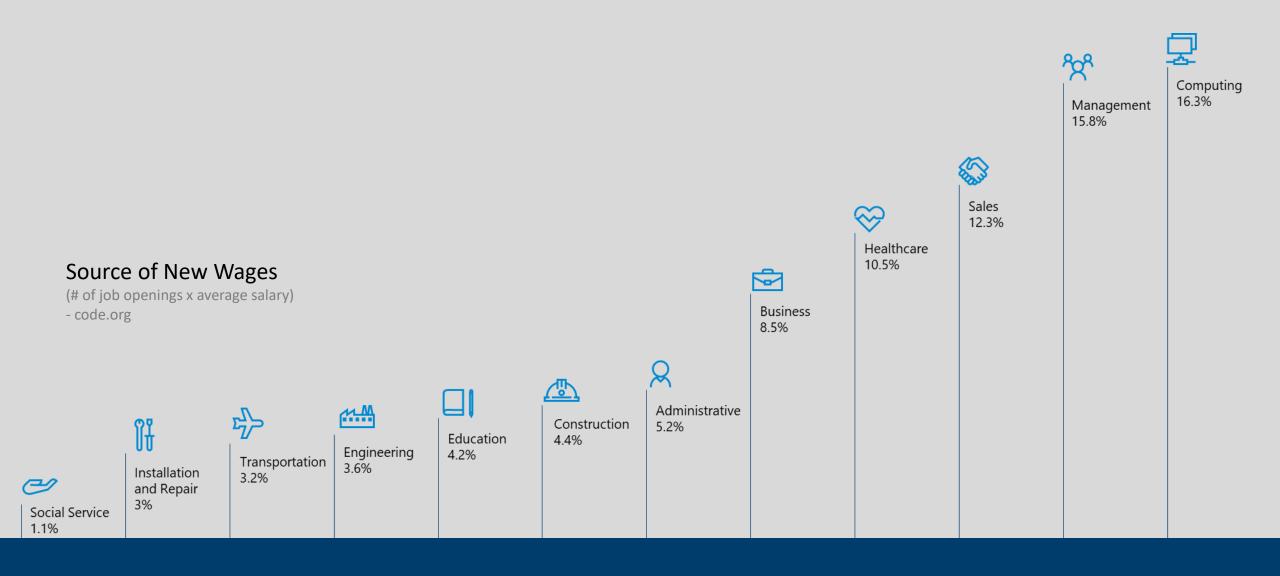
*world economic forum





PH UNEMPLOYMENT RATE SURGES TO 17.7%

Rate is equivalent to 7.3 million jobless people amid the COVID-19 pandemic



The #1 Source of New Wages is COMPUTING

The Age of Tech

Market capitalization of the world's most valuable public companies

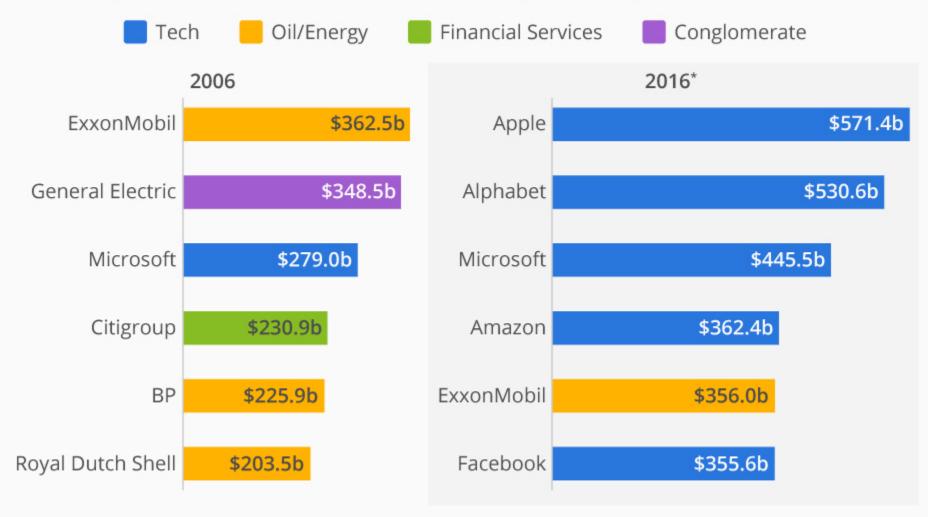


Image: StatistaCharts* as of August 1, 2016Image: StatistaChartsSources: Yahoo! Finance, Forbes



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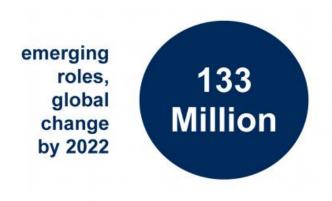
The Jobs Landscape in 2022





Top 10 Declining

- 1. Data Entry Clerks
- 2. Accounting, Bookkeeping and Payroll Clerks
- 3. Administrative and Executive Secretaries
- 4. Assembly and Factory Workers
- 5. Client Information and Customer Service Workers
- 6. Business Services and Administration Managers
- 7. Accountants and Auditors
- 8. Material-Recording and Stock-Keeping Clerks
- 9. General and Operations Managers
- 10. Postal Service Clerks



Top 10 Emerging

- 1. Data Analysts and Scientists
- 2. Al and Machine Learning Specialists
- 3. General and Operations Managers
- 4. Software and Applications Developers and Analysts
- 5. Sales and Marketing Professionals
- 6. Big Data Specialists
- 7. Digital Transformation Specialists
- 8. New Technology Specialists
- 9. Organisational Development Specialists
- 10. Information Technology Services



COMMITTED TO IMPROVING THE STATE OF THE WORLD

2020 Skills Outlook





Declining

- 1 Manual dexterity, endurance and precision
- 2 Memory, verbal, auditory and spatial abilities
- 3 Management of financial, material resources
- 4 Technology installation and maintenance
- 5 Reading, writing, math and active listening
- 6 Management of personnel
- 7 Quality control and safety awareness
- 8 Coordination and time management
- 9 Visual, auditory and speech abilities
- **10** Technology use, monitoring and control

Growing

- 1 Analytical thinking and innovation
- 2 Active learning and learning strategies
- 3 Creativity, originality and initiative
- 4 Technology design and programming
- 5 Critical thinking and analysis
- 6 Complex problem-solving
- 7 Leadership and social influence
- 8 Emotional intelligence
- 9 Reasoning, problem-solving and ideation
- 10 Systems analysis and evaluation

Exhibit 8: Probability of a job becoming automatable

Loan Officers Receptionists and Information Clerks Paralegals and Legal Assistants Retail Salespersons Taxi Drivers and Chauffeurs Security Guards Cooks, Fast Food Bartenders Personal Financial Advisors **Computer Programmers** Reporters and Correspondents Musicians and Singers Lawyers Physicians and Surgeons Elementary School Teachers

Source: University of Oxford, C.B. Frey and M. Osborne, Morgan Stanley Research Note: Select occupations ranked according to their probability of becoming automatable,

94% 92% 89% 84% 81% 77% 58% 48% 11% 7% 4% 0.4% 0.4%

98%

96%

BUSINESS INSIDER



Kids are exposed to technology at a very young age, hence the term – Digital Natives





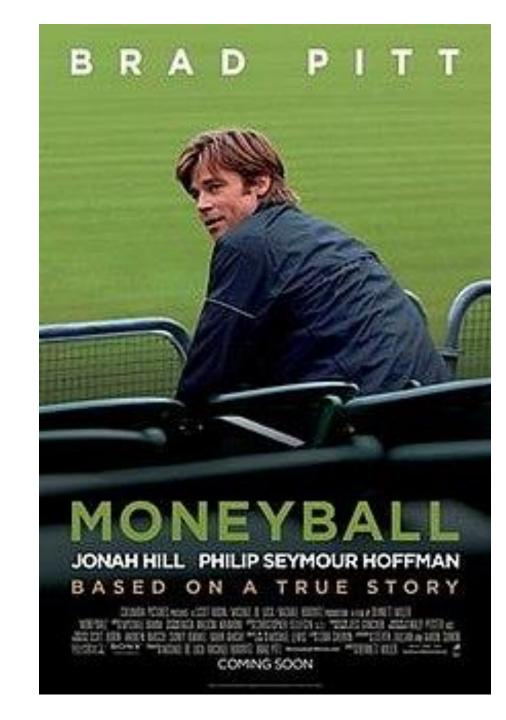


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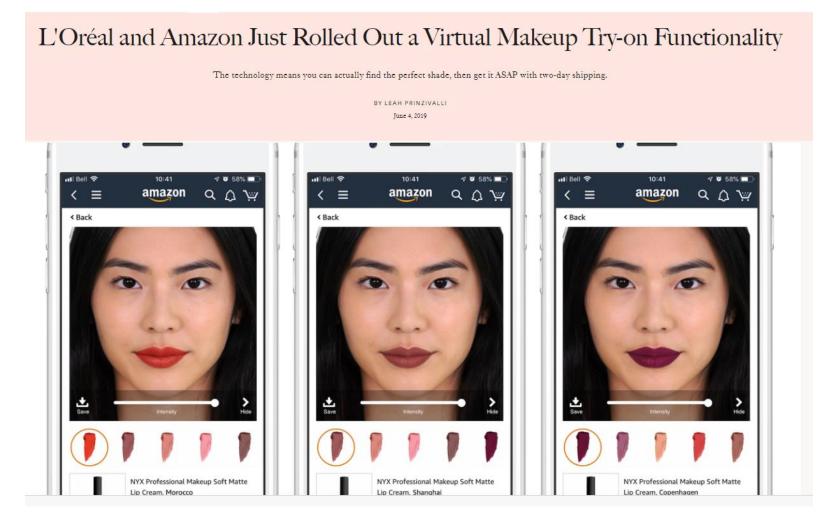
Gerd



Billy Bean GM, Oakland Athletics



Technology can further enhance the customer experience



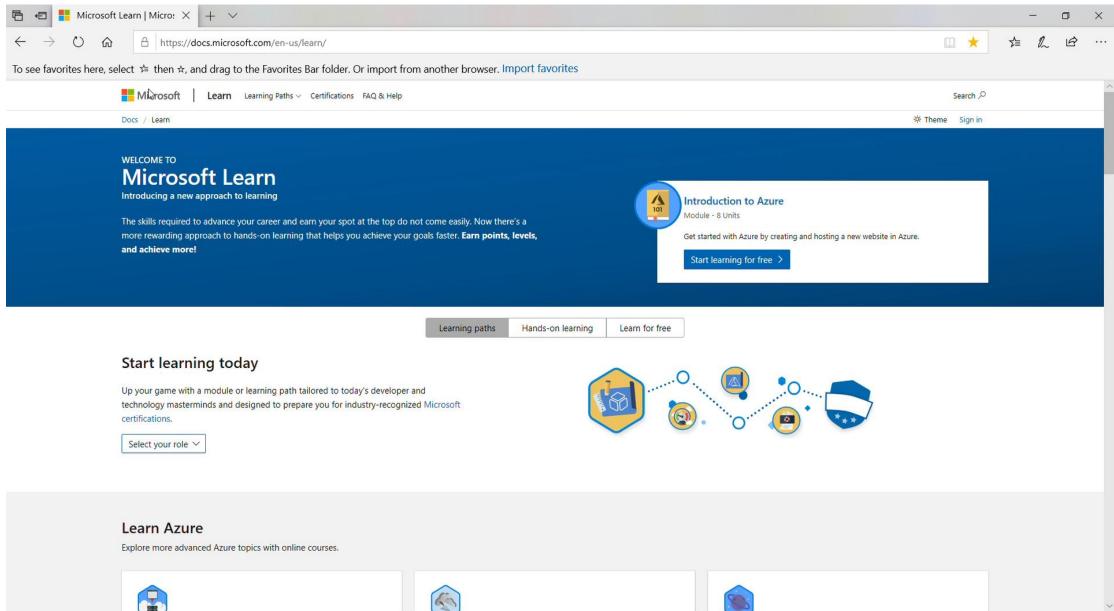


Having a good understanding of technology helps you see things in a different perspective.

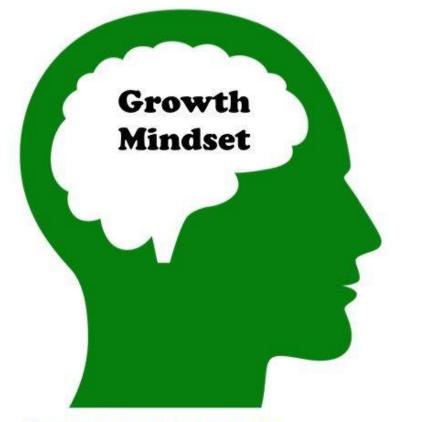




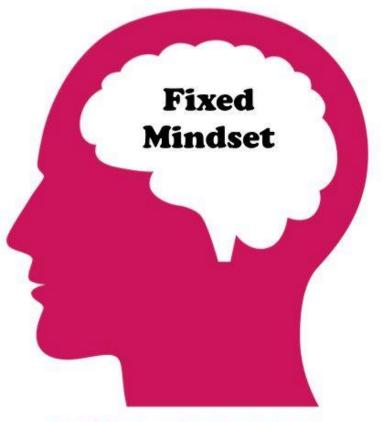
There are a lot of FREE courses online, you only need to invest time and effort..



What Kind of Mindset Do You Have?



I can learn anything I want to. When I'm frustrated, I persevere. I want to challenge myself. When I fail, I learn. Tell me I try hard. If you succeed, I'm inspired. My effort and attitude determine everything.



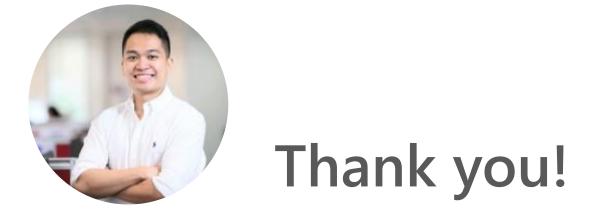
I'm either good at it, or I'm not. When I'm frustrated, I give up. I don't like to be challenged. When I fail, I'm no good. Tell me I'm smart. If you succeed, I feel threatened. My abilities determine everything.

Don't be a know-it-all; be a learn-it-all. - Satya Nadella, CEO Microsoft

NETFLIX

It's your learning journey





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