



Source: Tommy Wong

Integrated Data-Driven Story Telling: Lesson 1 - How to Tell Story with Data in Agile Software Development

What do we mean by “integrated”?

- **Integrate story with data**
- **Integrate front-end with back-end**
- **Integrate multiple data sources**
- **Integrate design with computation**
- **Integrate with other disciplines**
- **Integrate with latest software development practices**

Today's Agenda

- 1. Post-truth and fake news: implications for data narrative development**
- 2. The Rise of Platforms: Background leading to where we're today**
- 3. Trends in STEM education, business analytics, digital humanities and computational social science leading to paradigm shift in knowledge creation**
- 4. Front-end and back-end integration for full stack software development**
- 5. Introduction to agile software development in the context of narrative production**

Telling Story with Data: From the perspective of Data Journalism

The Rise of a Post-truth Age

ARCHIVE
JUN
11

5



POLITICS

How many again? Why counting protesters is so divisive in Hong Kong

 Photo: SCMP/Winston Wong

How would you live in a post-truth world?



The Fifth Estate

Politics

Twitter and Facebook suspend accounts for being part of China-backed campaign to disrupt Hong Kong protests

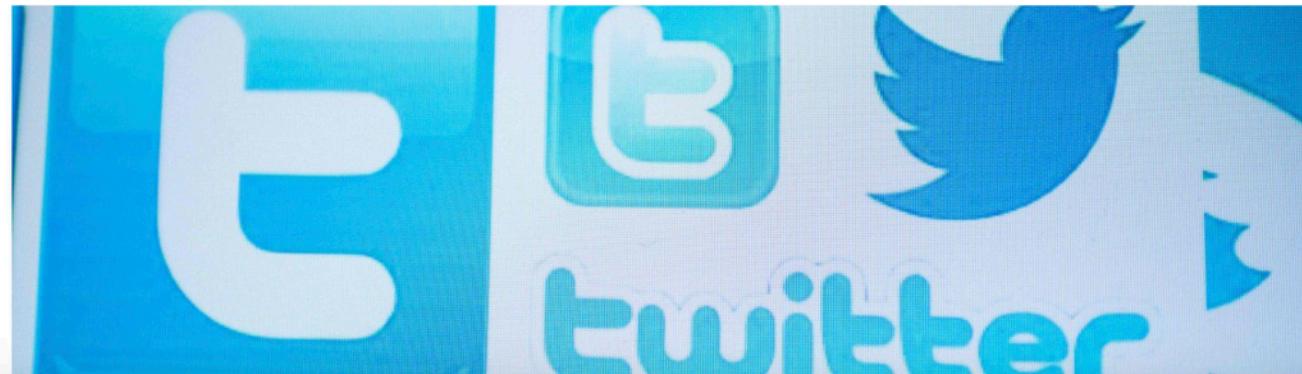
- The social platform Twitter says it has suspended 936 accounts originating within China; Facebook says it removed five accounts
- Twitter also announces it will no longer accept advertising from 'state-controlled news media entities'



Owen Churchill

Published: 4:01am, 20 Aug, 2019 ▾

TOP PICKS



Big Tech

Facebook, Twitter may face backlash over removal of China accounts related to Hong Kong protests

- Analysts say ad revenue the two platforms earn in the world's second-largest economy could now be at risk



Sarah Dai

Published: 9:00pm, 20 Aug, 2019

TOP PICKS



Should news and social media be trusted anymore? How would you protect yourself from fake news?

Home About

Search Twitter Have an account? Log In X

Bill Gates @BillGates

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I'm always amazed by the disconnect between what we see in the news and the reality of the world around us. As my late friend Hans Rosling would say, we must fight the fear instinct that distorts our perspective: b-gat.es/2WvUqpp

Causes of death in the US

What Americans die from, what they search on Google, and what the media reports on

Category	Share of deaths in the US (2016)	Google searches (in 2016)	Media coverage: New York Times (in 2016)	Media coverage: The Guardian (in 2016)
Heart Disease	39.2%	37%	13.3%	12.7%
Cancer	29.5%	27%	13.3%	12.7%
Road incidents, falls, accidents	7.6%	10.7%	0.8%	0.8%
Lower Respiratory Disease	7.4%	6.3%	0.8%	0.8%
Alzheimer's disease	6.8%	5.9%	0.8%	0.8%
Stroke	5.9%	5.5%	0.8%	0.8%
Diabetes	2.1%	2.1%	0.8%	0.8%
Drug overdoses	1.9%	2.1%	0.8%	0.8%
Fatal injuries (other than suicide)	1.8%	1.8%	0.8%	0.8%
Suicide	1.8%	1.2%	0.8%	1.4%
Terrorism	0.2%	0.2%	36.6%	33.3%
Homicide	0.2%	0.2%	22.8%	23.3%
Stroke (stroke)	0.1%	0.1%	0.1%	0.1%
Pneumonia & influenza (P&I)	0.1%	0.1%	0.1%	0.1%
Other	0.1%	0.1%	0.1%	0.1%

*This represents each cause's share of the top ten causes of death in the US plus homicides, drug overdoses and terrorism. Collectively these 13 causes accounted for approximately 88% of deaths in the US in 2016. Full breakdown of causes of death can be found at the CDC's WONDER public health database: <https://wonder.cdc.gov/>

All data refers to 2016.

All values are normalized to 100% to represent their relative share of the top causes, rather than absolute counts (e.g. "Stroke" represents each cause's share of deaths within the 13 categories shown rather than total deaths).

This visualization is based on data from OurWorldInData.org, where you find data and research on how the world is changing.

11:58 am - 11 Jun 2019

45,772 Retweets 116,791 Likes

<https://ourworldindata.org/does-the-news-reflect-what-we-die-from?LinkId=68864855>

**How was data being misrepresented as
described in the article?**





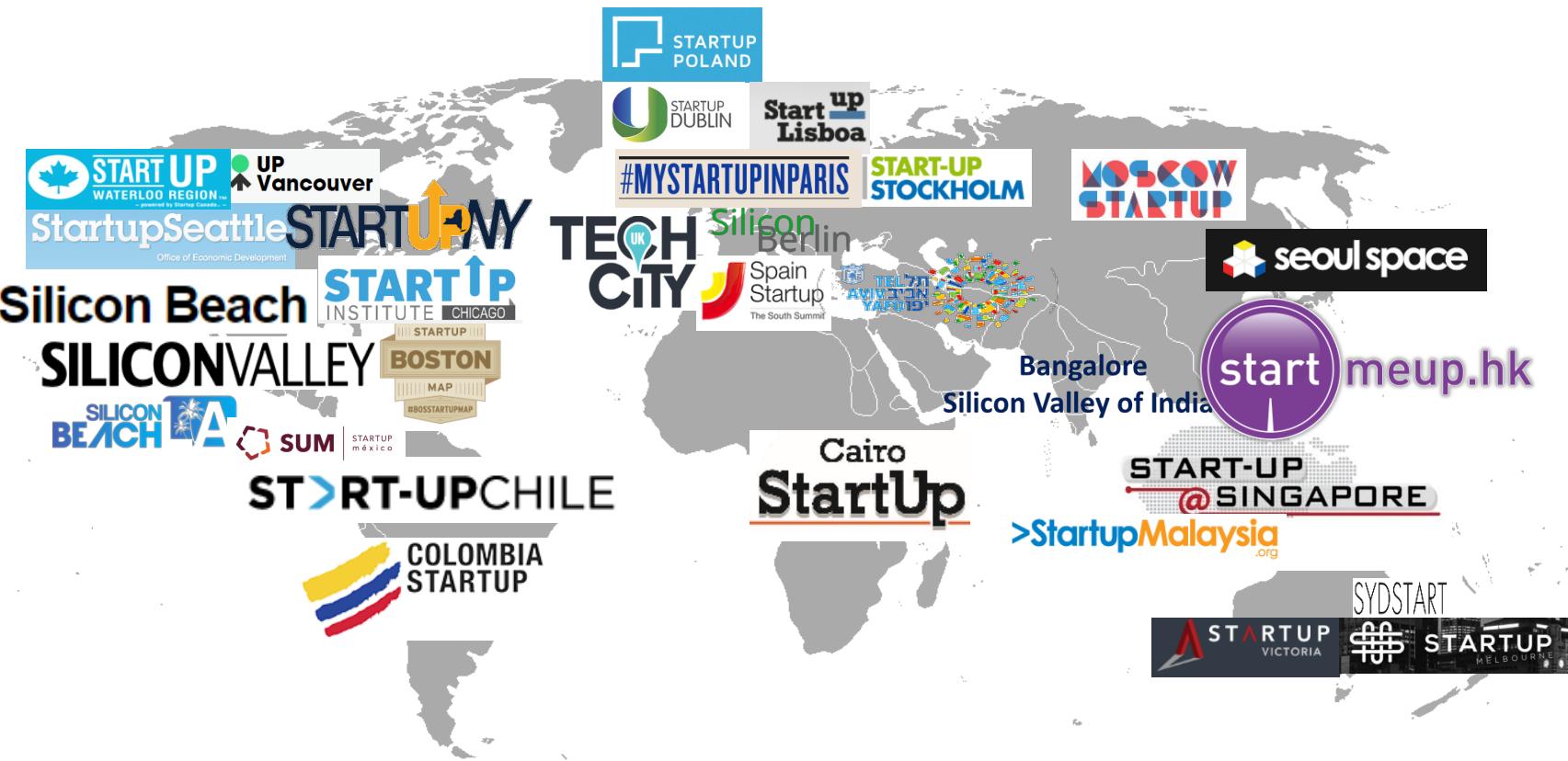


Background to the Latest Development

The Rise of the Mobile Internet



Global Phenomenon





Hong Kong, Co-Working Spaces • February 15, 2018

4 Cats Co-Business Community



Hong Kong, Co-Working Spaces • February 14, 2018

Andotherspace



Hong Kong, Co-Working Spaces • February 13, 2018

Arco City



Hong Kong, Co-Working Spaces • February 12, 2018

BLOOM



Hong Kong, Co-Working Spaces • February 11, 2018

blueprint



Hong Kong, Co-Working Spaces • February 10, 2018

CO:WORK SOLO



Hong Kong, Co-Working Spaces • February 9, 2018

Campfire



Hong Kong, Co-Working Spaces • February 8, 2018

Central Park



Hong Kong, Co-Working Spaces • February 7, 2018

CoCoon



Hong Kong, Co-Working Spaces • February 6, 2018

Coffee



Hong Kong, Co-Working Spaces • February 5, 2018

Cowork CHM



Hong Kong, Co-Working Spaces • February 4, 2018

Cyberport Smart Spaces

Source: Jumstart Magazine

MADE IN CHINA 2025



FROM RISE OF CHINA TO THE TRADE WAR



- Initially ban sales of core components and use of android to ZTE for 7 years because of violation of Iran sanction and later ban removed with US\$1 billion fine and restructure of top management
- Ban sales of ZTE and Huawei phones on U.S. military base retail stores
- Investigate violation of Iran sanction by Huawei

Huawei signals global 5G network leadership intentions



TOM BALL REPORTER

23RD FEBRUARY 2018

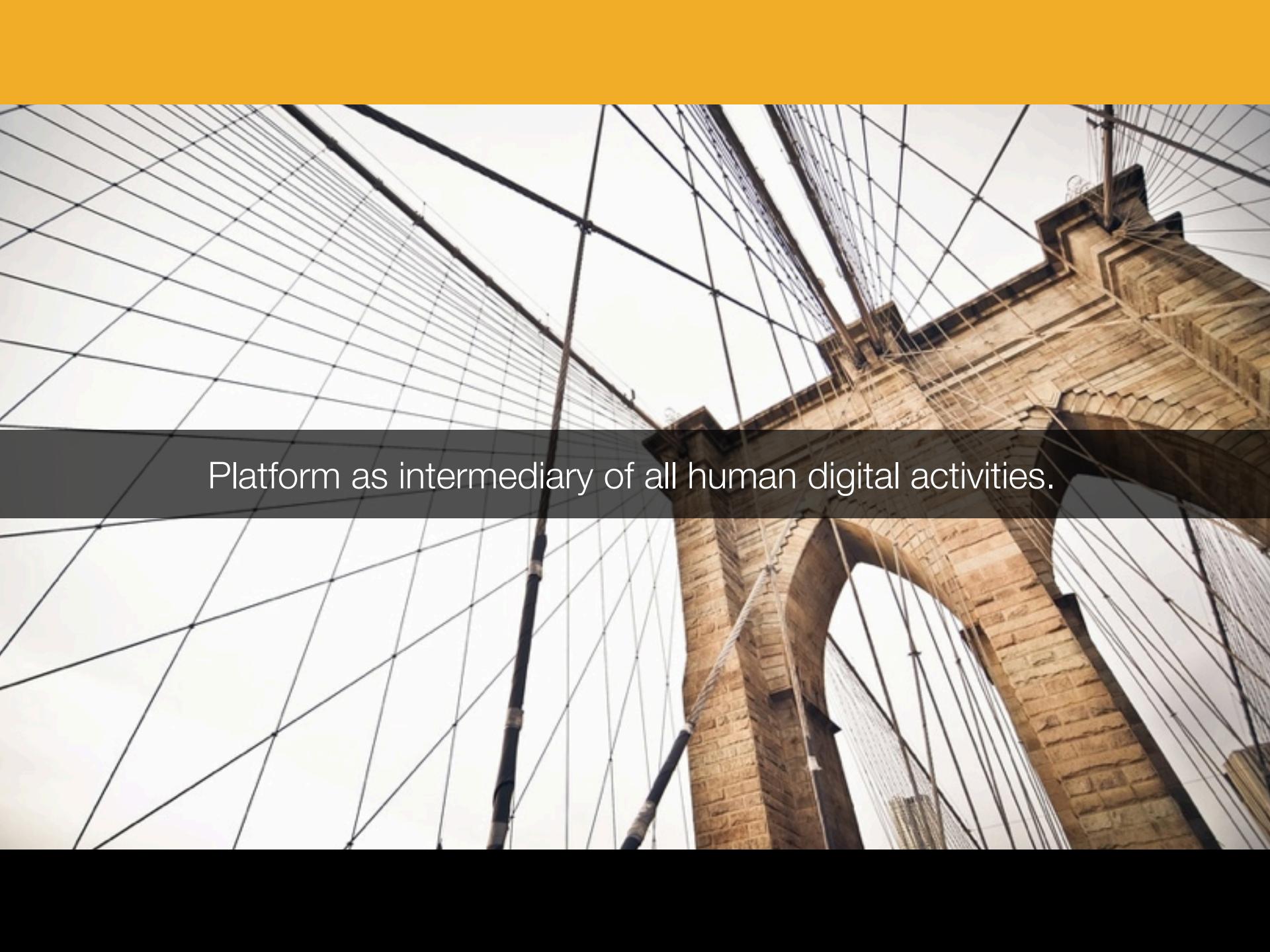
+ INCREASE / DECREASE TEXT SIZE -



Source: Computer Business Review Feb 2018



Source: wikipedia.org

A photograph taken from a low angle, looking upwards at the iconic suspension cables and stone towers of the Brooklyn Bridge. The cables fan out from the towers, creating a complex geometric pattern against a bright sky.

Platform as intermediary of all human digital activities.

Who Rules the Platform Will Rule the World

China vs. US – Top Players for Key Verticals



Source: China Internet Report 2018

CHINA INTERNET REPORT

2018



www.abacusnews.com/china-internet-report



Notable Acquisitions Of Chinese Start-ups Since 2017

Jan 2017 –
Jul 2018

Notable Acquisitions	CEO/Founder	Acquired by	Amount of Acquisition (US\$)
Ele.me	ZHANG Xuhao	Alibaba	9.5B ⁽¹⁾
Mobike	HU Weiwei	Meituan-Dianping	2.7B
Cheypai	WANG Xuejian	Souche	1-2B
Dangdang	LI Guoqing	HNA Group	1.1B
Waimai(Baidu)	GONG Zhenbin	Ele.me	800M
Tantan	HAN Zhibai	Momo	600M
Tian Tian Express	XI Chunyang	Suning Commerce Group	472M
Lagou.com	MA Delong	51job	119M
Heliobike	YANG Lei	Youon Bike	Undisclosed
Maoyan	WANG Xing	Enlight Media	Undisclosed
Kanche.com	WEI Zheng	Yixin Group	Undisclosed
Bluegogo	HU Yufei	Didi	Undisclosed
FaceU	GUO Lie	Toutiao	Undisclosed

(1) \$9.5B is the enterprise valuation of Ele.me, Alibaba and Ant Financial (owned 45% with Ants holding the remaining shares).
Source: Crunchbase, PwC, Zero2IPO.



RISE





Industry innovation and disruption comes from technology platforms

Synced

AI TECHNOLOGY & INDUSTRY REVIEW

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TECHNOLOGY

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AI CHINA INDUSTRY UNITED STATES

Amazon Go vs Alibaba Tao Cafe: Staffless Shop Showdown

Amazon and Alibaba's brick-and-mortar-but-no-staff shops offer very different user experiences. To bring you first-hand feedback, Synced visited them.

Source: The Synced, Jan 22, 2018



Chinese Internet Giant Tencent Invests \$70 Million In Healthcare Group DXY

Catherine Shu @catherineshu / Sep 2, 2014

Comment



Source: Tech Crunch, Sep 2, 2014

The New York Times

Amazon Wants to Disrupt Health Care in America. In China, Tech Giants Already Have.

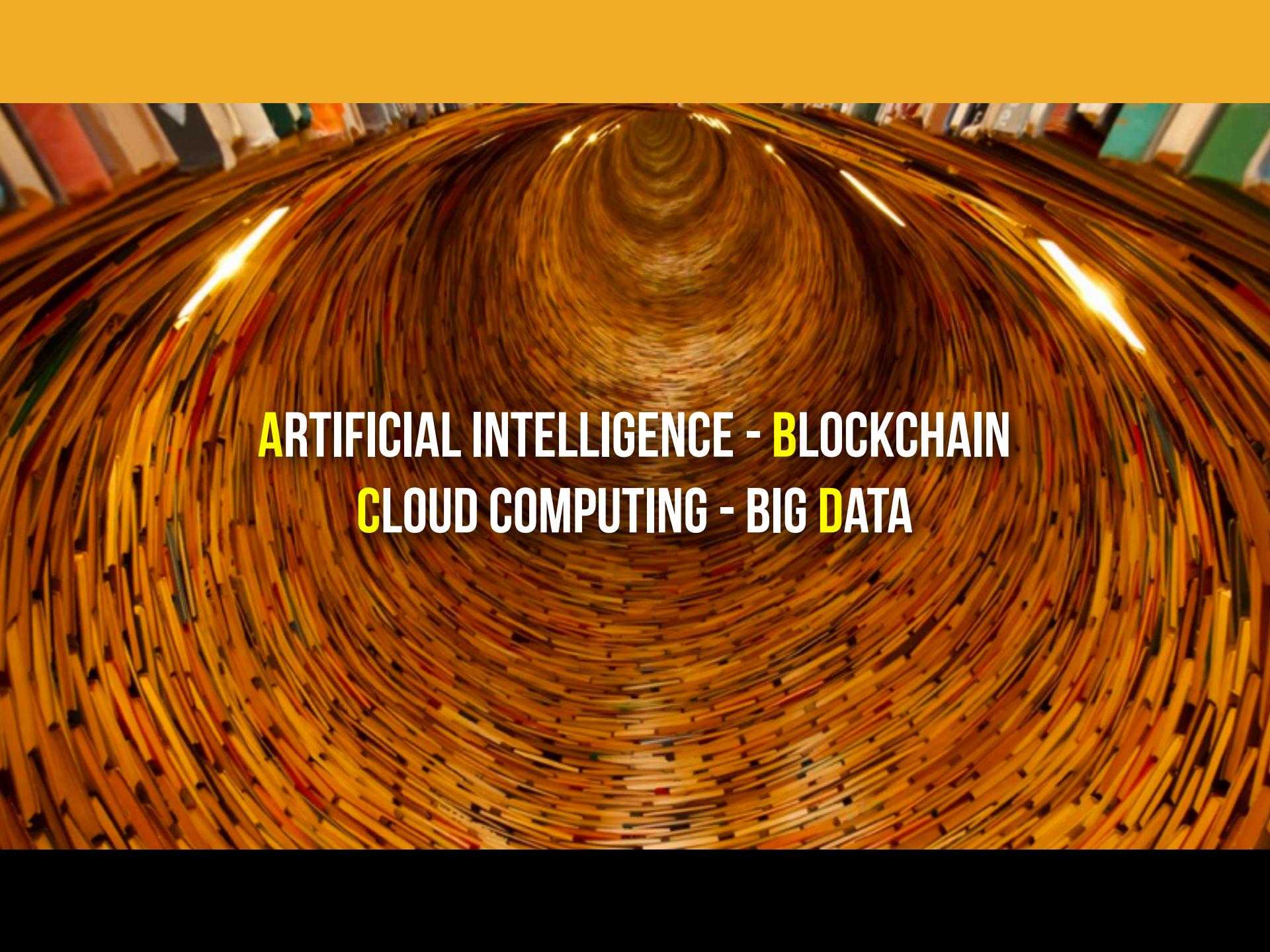
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By SUI-LEE WEE and PAUL MOZUR JAN 31, 2018



Source: The New York Times, Jan 31, 2018

**NEW TECHNOLOGIES KEEP EMERGING, BRINGING
ALONG DRASTIC CHANGES IN OUR CAREER AND LIFE**



**ARTIFICIAL INTELLIGENCE - BLOCKCHAIN
CLOUD COMPUTING - BIG DATA**

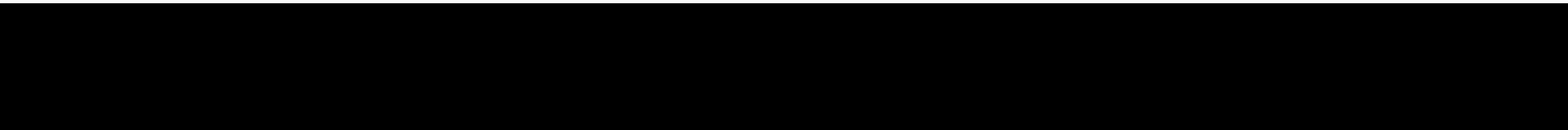
ARTIFICIAL INTELLIGENCE, BLOCKCHAIN, CLOUD COMPUTING, BIG DATA

The ABCD of Emerging Infrastructure
for Global Politics, Trade and Finance

“WINNERS TAKE ALL”

PLATFORMS CROSSING BOUNDARIES AND TERRITORIES TO DISRUPT THE STATUS QUO





AT THE HEART OF THE PLATFORM IS SOFTWARE

 ESSAY

THE WALL STREET JOURNAL.

Why Software Is Eating The World

 By Marc Andreessen August 20, 2011    This week, Hewlett-Packard (where I am on the board) announced that it is exploring jettisoning its struggling PC business in favor of investing more heavily in software, where it sees better potential for growth. Meanwhile, Google plans to buy up the cellphone handset maker Motorola Mobility. Both moves surprised the tech world. But both moves are also in line with a trend I've observed, one that makes me optimistic about the future growth...

RELATED VIDEO



Groupon Investor Marc Andreessen: 'No Tech Bubble'

In an interview with WSJ's Kevin Delaney, Groupon and LinkedIn investor Marc Andreessen insists that the recent popularity of tech companies does not constitute a bubble. He also stressed that both Apple and Google are undervalued and that "the market doesn't like tech."

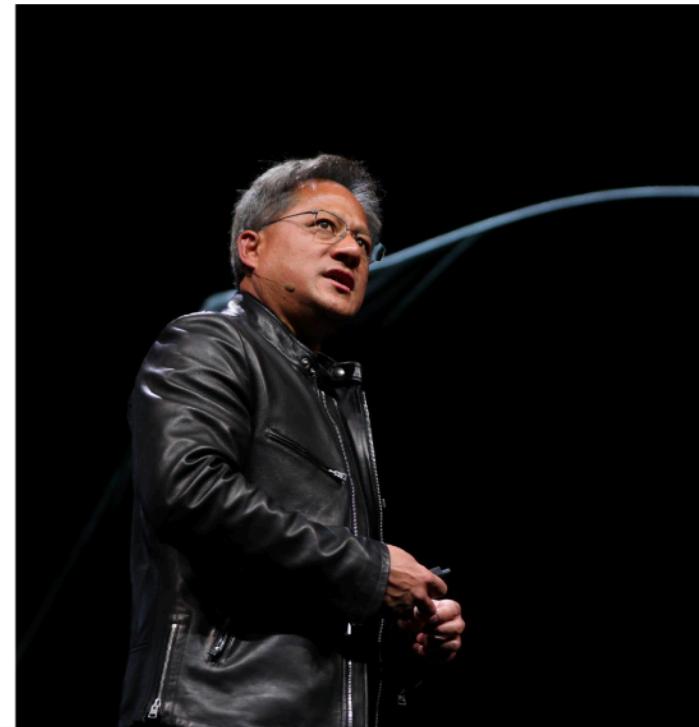
18

[Intelligent Machines](#)

Nvidia CEO: Software Is Eating the World, but AI Is Going to Eat Software

Source: MIT Technology Review, March 12, 2017

Jensen Huang predicts that health care and autos are going to be transformed by artificial intelligence.



ENTERPRISE | MEDIA | GOOGLE

No, Data Is Eating the World

Netflix and Google are still disruptive companies -- but no longer primarily because of their software.

BY DRIES BUYTAERT | JAN 7, 2015, 12:27PM EST

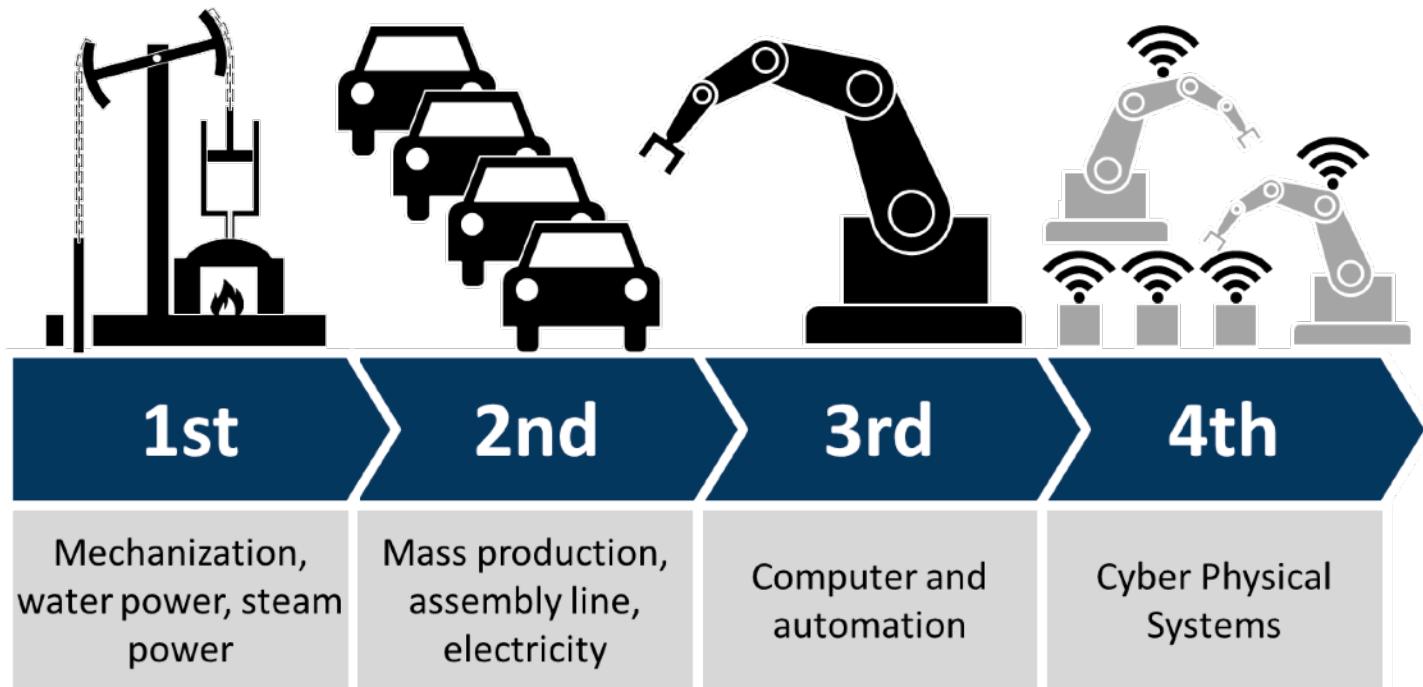
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SMART INFRASTRUCTURE TRENDS: INDUSTRY 4.0 AND IoT



Source: Wikipedia Commons



X



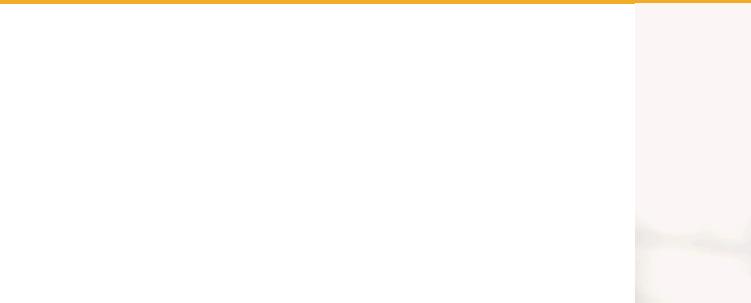
**MADE IN
CHINA
2025**

Industry 4.0

Source: china.org.cn



Amazon Echo Dot



Source: Xiaomi Smart Home



ome



Apple HomePod

Source: portal gda (Flickr)

Source: Wikipedia Commons

Fugitives were caught in concerts for 张学友? Social credit system experiments have been implemented through cooperation between local governments and Alibaba and Tencent? Are these signs of smart cities on the rise?

**What are the implications of these
shifts for us?**

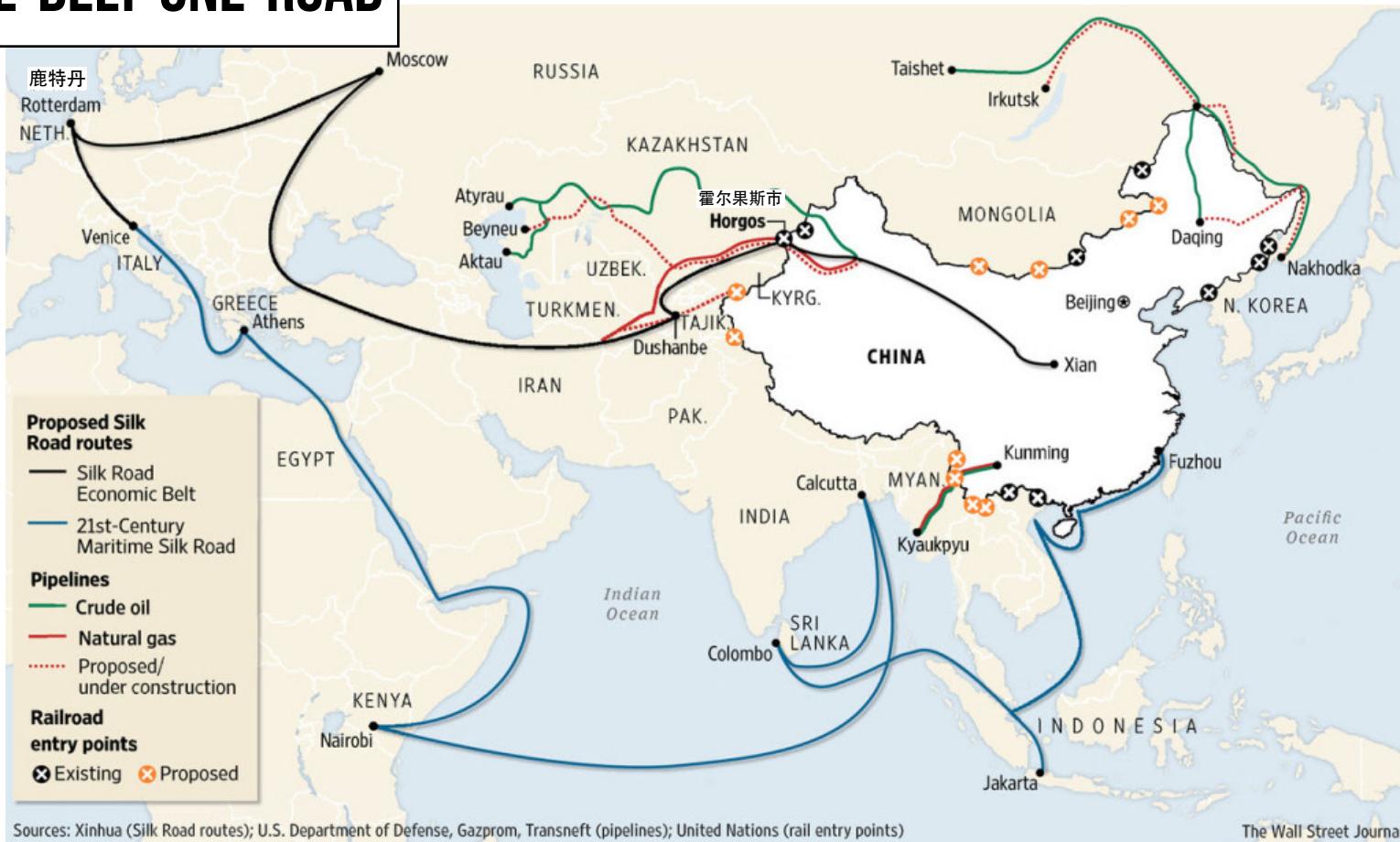


**BESIDES THE RAPID TECHNOLOGICAL AND SOCIAL CHANGES, THERE ARE
OTHER SEVERE CHALLENGES**



**GLOBALISATION RECEDES
LOCALISM TAKES OVER**

ONE-BELT-ONE-ROAD



GREATER BAY AREA

Guangdong-Hong Kong-Macao Bay Area





Can we cope with these changes?

**WHAT DO OUR STUDENTS NEED TO SURVIVE
AND SEEK FULFILMENT IN SUCH A WORLD?**



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Science, Technology, Engineering and Math: Education for Global Leadership



"STEM" EDUCATION COMES TO THE RESCUE.

"[Science]" is more than a school subject, or the periodic table, or the properties of waves. It is an approach to the world, a critical way to understand and explore and engage with the world, and then have the capacity to change that world..."

— President Barack Obama, March 23, 2015

推動 STEM 教育

發揮創意潛能

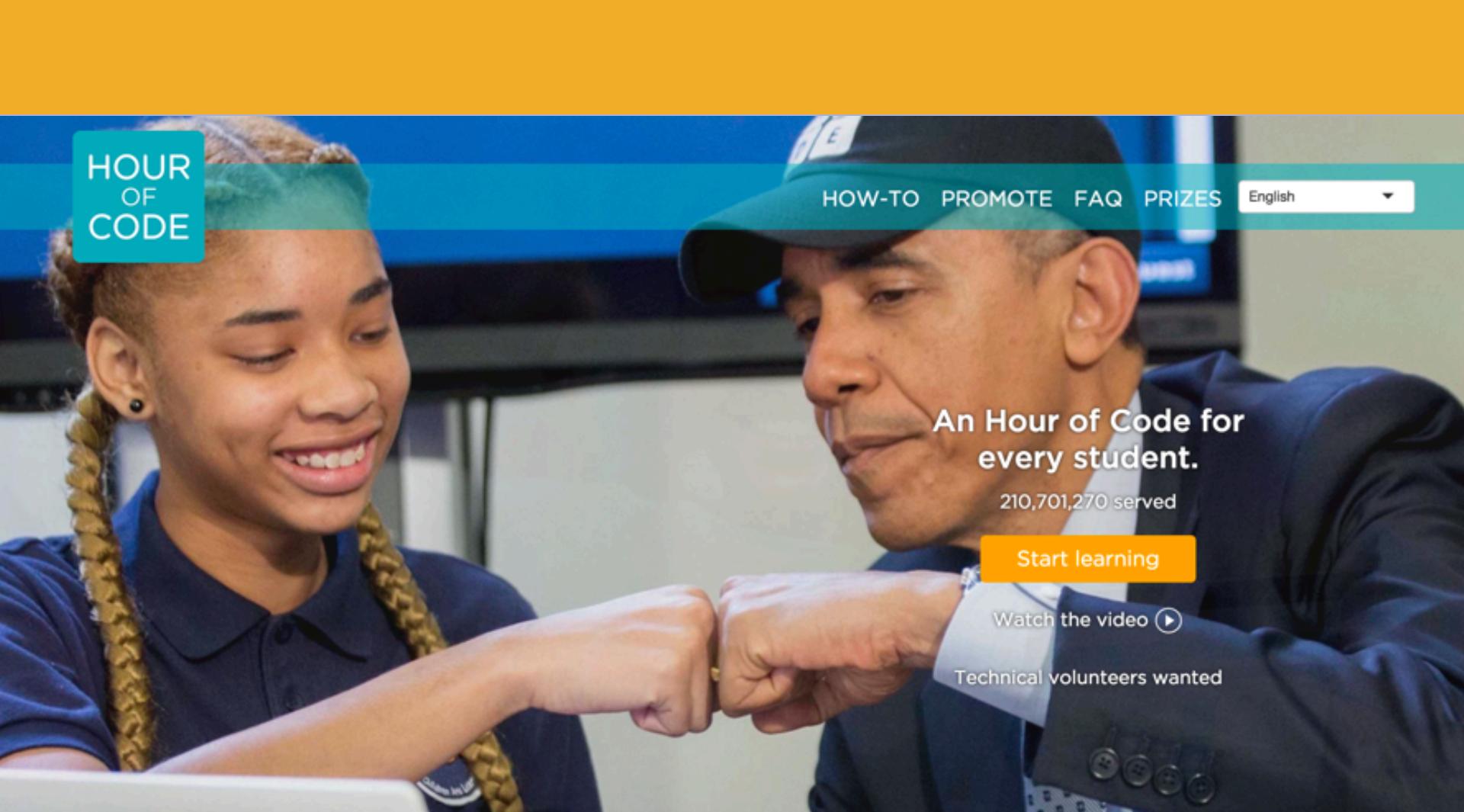
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Q&A 58



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「編程一小時」The Hour of Code HK – 讓大眾免費體驗的編程工作坊

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Hour of Code

2015.01 - Present



Hour of Code offers an opportunity for students to try computer science for one hour. It originates in the US and is organised by Code.org which is a non-profit organisation dedicated to expand computer science education. In one week in December 2013, 15 million students tried an hour of

[Create](#)[Explore](#)[Discuss](#)[About](#)[Help](#) Search[Join Scratch](#)[Sign in](#)

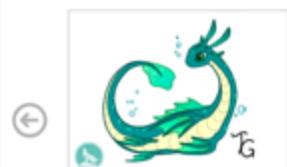
Create stories, games, and animations
Share with others around the world



A creative learning community with **12,847,273** projects shared

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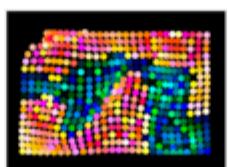
Featured Projects



Speed Drawing: N...
by taffygirl13



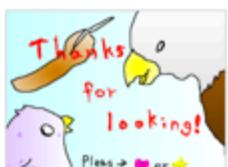
Smoothie Maker (...
by -MarzBarz-



Wave Canvas
by Time_Tripper



Hidden
by Blackswift



Bird
by umannmann2002

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First Code Academy



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Age 6-8

Age 9-11

Age 12-14

Age 15+

Class	Class Code	Start Date	Time	Price	Location	Slots
Start from Scratch: Animation and Games	AT0615A	2015/06/15	9:30AM to 11:30AM	HK\$4,920	Wanchai	closed
Start from Scratch: Animation and Games	AT0622P	2015/06/22	4:00PM to 6:00PM	HK\$4,920	Wanchai	closed
Junior Inventors of Hardware	AT0622P2	2015/06/22	1:00PM to 3:00PM	HK\$4,920	Wanchai	closed
Junior Inventors of Hardware	AT0629A	2015/06/29	9:30AM to 11:30AM	HK\$4,920	Wanchai	closed
Junior Inventors of Hardware	AT0629P	2015/06/29	4:00PM to 6:00PM	HK\$4,920	Wanchai	closed
Junior Inventors of Hardware	AT0706P	2015/07/06	4:00PM to 6:00PM	HK\$4,920	Wanchai	closed
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Bitesize

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Introduction to computational thinking

Before computers can be used to solve a problem, the problem itself and the ways in which it could be resolved must be understood. Computational thinking techniques help with these tasks.

Revise
Test

< 1 2 >

What is computational thinking?

Computers can be used to help us solve problems. However, before a problem can be tackled, the problem itself and the ways in which it could be solved need to be understood.

Computational thinking allows us to do this.

More Guides

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**WILL “STEM” AND COMPUTATIONAL THINKING BECOME OUR
STRONG SUIT?**

Google's AI Wins Fifth And Final Game Against Go Genius Lee Sedol

CADE METZ BUSINESS 03.15.16 5:01 AM

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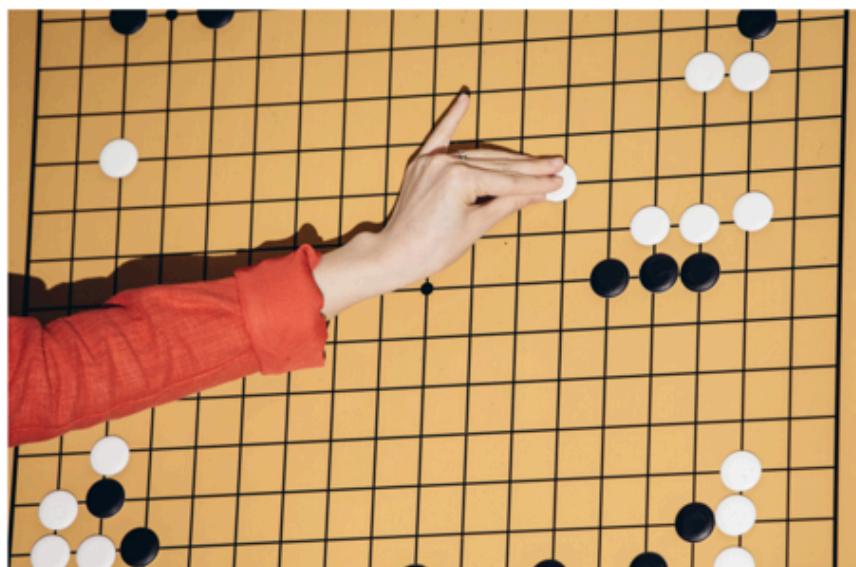


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21



EMAIL

GOOGLE'S AI WINS FIFTH AND FINAL GAME AGAINST GO GENIUS LEE SEDOL



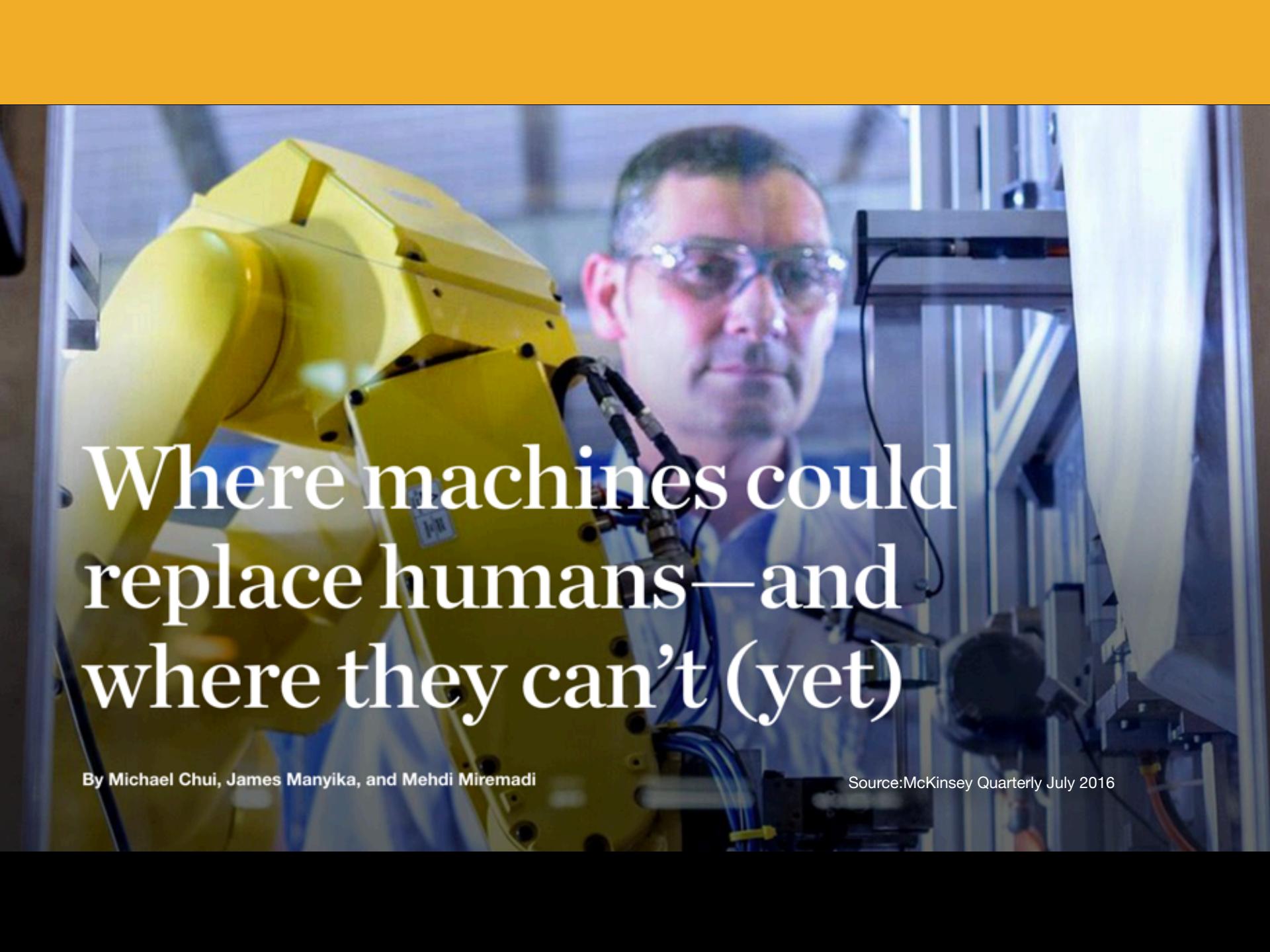
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POLITICS
Presenting the Best Tweets of the First Presidential Debate
10 HOURS



BUSINESS
Microsoft Bets Its Future on a Reprogrammable Computer Chip
2 DAYS

A photograph showing a man with glasses standing behind a large yellow robotic arm in a factory environment. The man is wearing a light-colored shirt and safety glasses. The robotic arm is prominent on the left side of the frame, and the background shows industrial equipment and lighting.

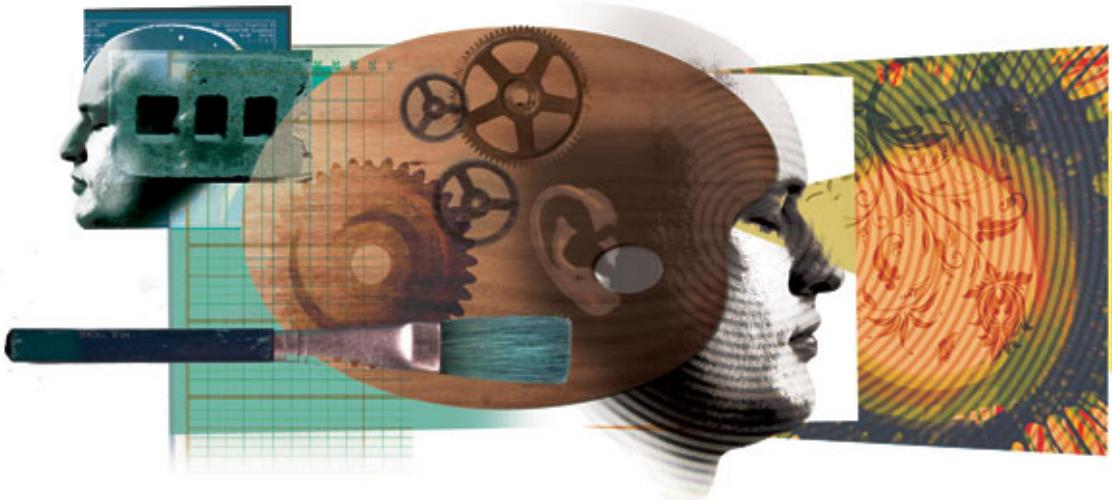
Where machines could replace humans—and where they can't (yet)

By Michael Chui, James Manyika, and Mehdi Miremadi

Source: McKinsey Quarterly July 2016

UNBOXED

Let Computers Compute. It's the Age of the Right Brain.



Margaret Riegel

By JANET RAE-DUPREE
Published: April 6, 2008

右脑时代来临!

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**WHY RIGHT-BRAINERS
WILL RULE THE FUTURE**

DANIEL H. PINK

Guest

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Is the Right Hemisphere the Next Big Thing?

by Tom Davenport | 12:14 PM April 10, 2008

右脑是否下一个大浪？

No. That's my answer, and I'm sticking to it. That's been my answer since I read Daniel Pink's *A Whole New Mind* back in 2005. Pink raised the idea that we residents of the Land of the Free and the Home of the Brave should give up on left-brain activities—in part because we can't compete with the Indians and the Chinese—and pursue only our right brain, creative sides. I had hoped that this idea had been abandoned, but now Janet Rae-Dupree has *revived it*.

Rae-Dupree's *New York Times* article is titled, goofily, "Let Computers Compute: It's the Age of the Right Brain," and goes on to assert:

Source: Harvard Business Review

Why Good Leaders Make Bad Decisions

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Neuroscience reveals what drives a leader's judgment. Here's how you can keep your own judgment clear.

Why Good
Leaders
Make Bad
Decisions

by Andrew Campbell,
and Sydney Finkelstein

FEATURED PRODUCTS



Nine Things Successful
People Do Differently

The surprising thing Google learned about its employees – and what it means for today's students

By Valerie Strauss December 20, 2017  Email the author



(Marcio Jose Sanchez/AP)

"In 2013, Google decided to test its hiring hypothesis by crunching every bit and byte of hiring, firing, and promotion data accumulated since the company's incorporation in 1998. Project Oxygen shocked everyone by concluding that, among the eight most important qualities of Google's top employees, STEM expertise comes in dead last. The seven top characteristics of success at Google are all soft skills: being a good coach; communicating and listening well; possessing insights into others (including others different values and points of view); having empathy toward and being supportive of one's colleagues; being a good critical thinker and problem solver; and being able to make connections across complex ideas."

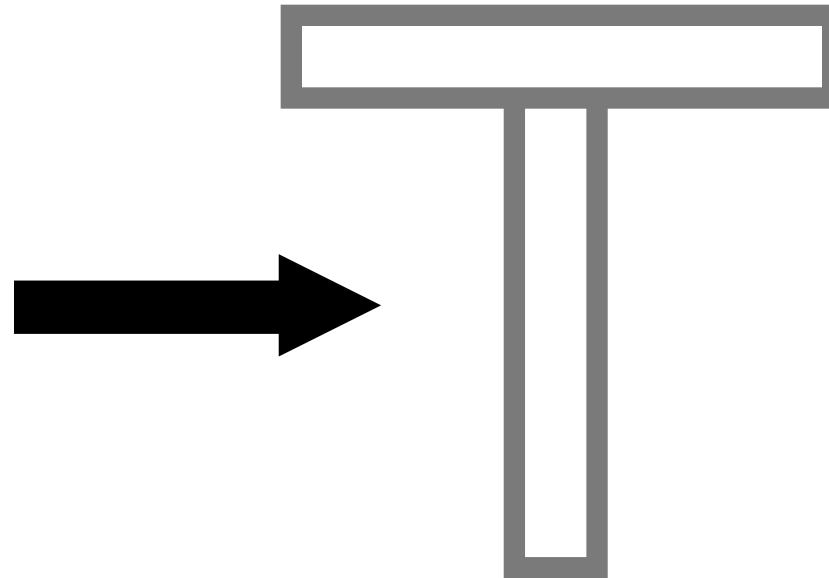


THE 21ST SKILLS FOR NURTURING ENTREPRENEURS, INNOVATORS AND MAKERS

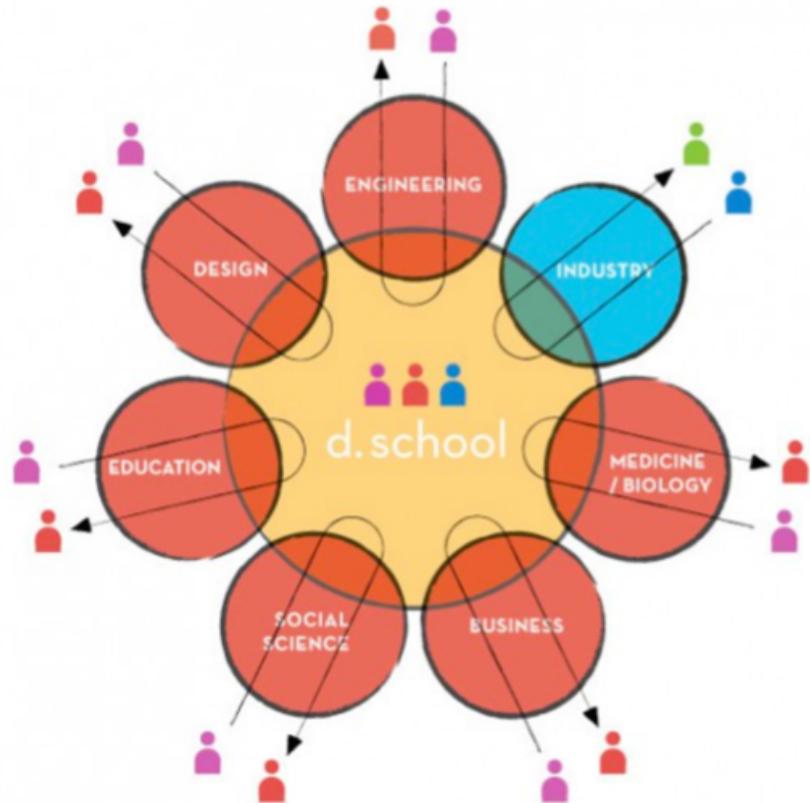
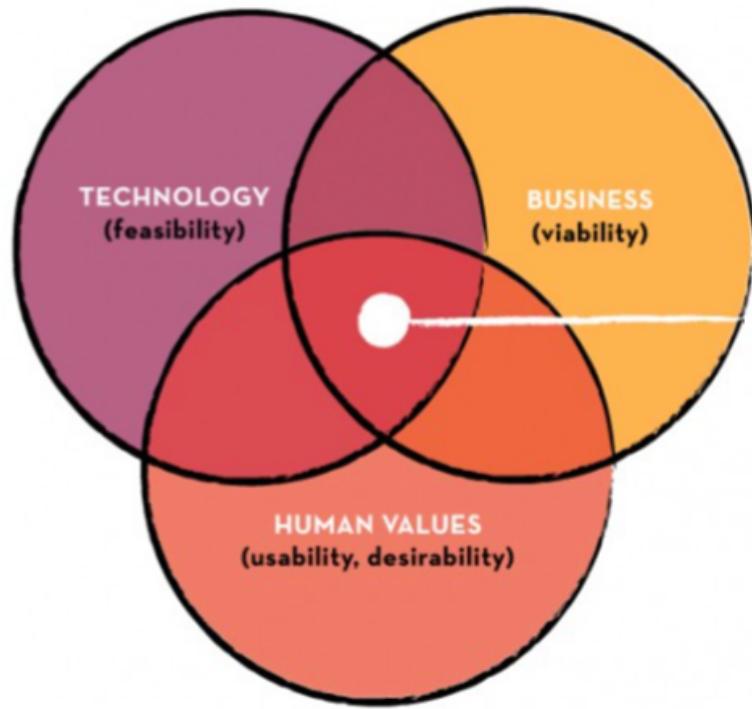
**I-Shaped Talent of
the Industrial Age**



**T-Shaped Talent of
the Network Age**

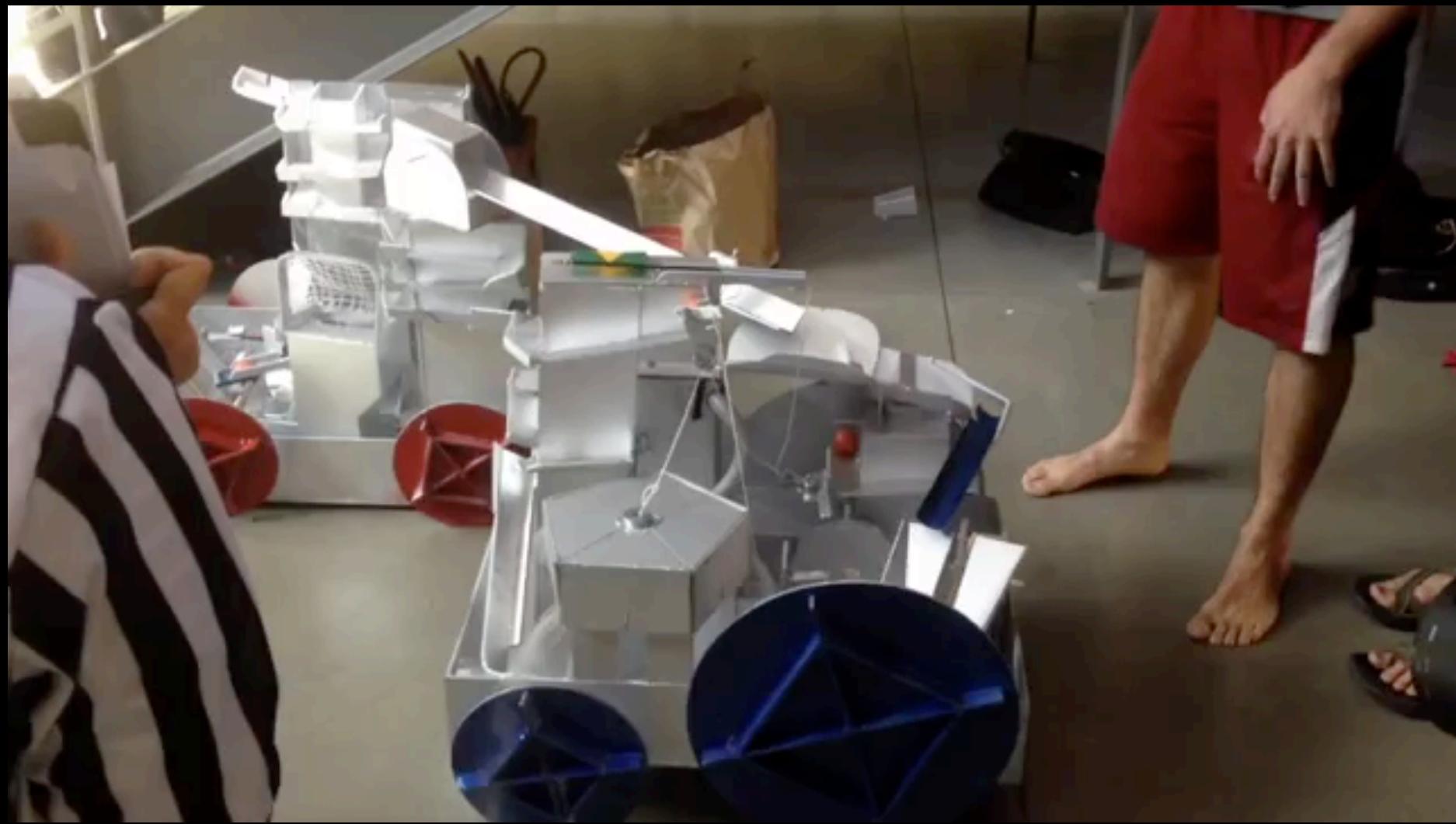


The Power of an Interdisciplinary Team



Source: Stanford d.School







SCIENCE, TECHNOLOGY AND MATHEMATICS EDUCATION

in the Development of the Innovation and Technology Ecosystem of Hong Kong

“... Innovation and scientific research, as well as the ability to solve complex problems nowadays require multidisciplinary training and possession of so-called “T-shaped” knowledge. However, over two-thirds of HKDSE students took only two Electives, comparing poorly to an average of four subjects in addition to Languages and Mathematics previously (under the HKCEE8 system). The narrowed knowledge base seriously weakens the foundation required for articulation into post-secondary education. “

--- Extracted from the Executive Summary

BRIGHT SIDE

Inspiration ▾

Creativity ▾

Wonder ▾



Finland Will Become the First Country in the World to Get Rid of All School Subjects

Source: Bright Side website



Minor in Entrepreneurship and Innovation (EPIN)

is coming in September 2017!

EPIN (pronounced as “\e-pin\”, sounds similar to “epic”) is a university-wide minor programme in entrepreneurship and innovation. CUHK students dare to be different. You are passionate to create and break new grounds. This is a platform to learn, practice and make things happen.



Maker Bubble

Bring Design Concepts into Everyday Life





BASc
Bachelor of
Arts & Sciences



BASc AppliedAI Design+ FinTech GHD SDS

ENTREPRENEURSHIP

INNOVATION



Bachelor of Arts & Sciences

The University of Hong Kong



BASc | HKU
Bachelor of Arts & Sciences

The new Bachelor of Arts & Sciences degrees, involving all ten faculties, are aimed at nurturing globally-minded thinkers and leaders able to leverage their interdisciplinary knowledge and skills to address the contemporary and future challenges of our increasingly complex world.



Bachelor of Arts & Sciences



AppliedAI



Design +



FinTech



Global Health & Development



Social Data Science



香港浸會大學
HONG KONG BAPTIST UNIVERSITY



DEPARTMENT OF
COMPUTER SCIENCE
計算機科學系



新聞系
DEPARTMENT OF
JOURNALISM

JS2310 - Bachelor of Communication & JS2510 - Bachelor of Science

Data and Media Communication Concentration (DMC)

An Interdisciplinary Concentration for HKBU Computer Science and Journalism Students



Curriculum Structure

Part 1. Bridging Courses (6 units)

Course Title	Offering Department	Units
<i>For Computer Science Students</i>		
JOUR2085 English News Reporting and Writing	JOUR	3
JOUR2107 Introduction to Journalism and Communications	JOUR	3
<i>For Journalism Students</i>		
COMP2865 Fundamentals of Data Analysis and Management	COMP	3
ITEC2016 Data-driven Visualization for the Web	COMP	3

Part 2. Core Courses (12 units)

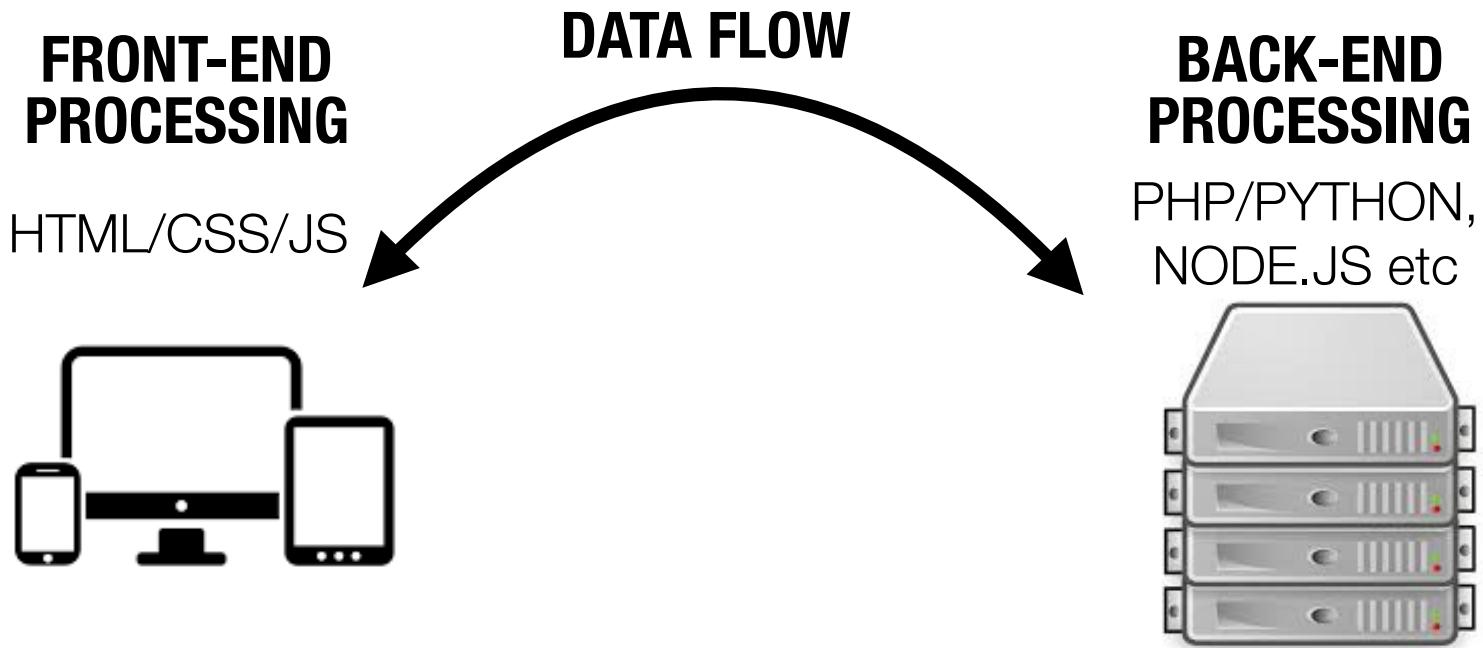
Course Title	Offering Department	Units
COMP3925 Data Analysis Studio	COMP	1
COMP4908 Data Media Project I	COMP	3
COMP4115 Exploratory Data Analysis and Visualization	COMP	3
JOUR4046 Integrated Data-driven Storytelling	JOUR	3
JOUR3155 Investigative Reporting for Data and Media Communication	JOUR	2

**Integrating interdisciplinary learning into the
curriculum becoming more common.**

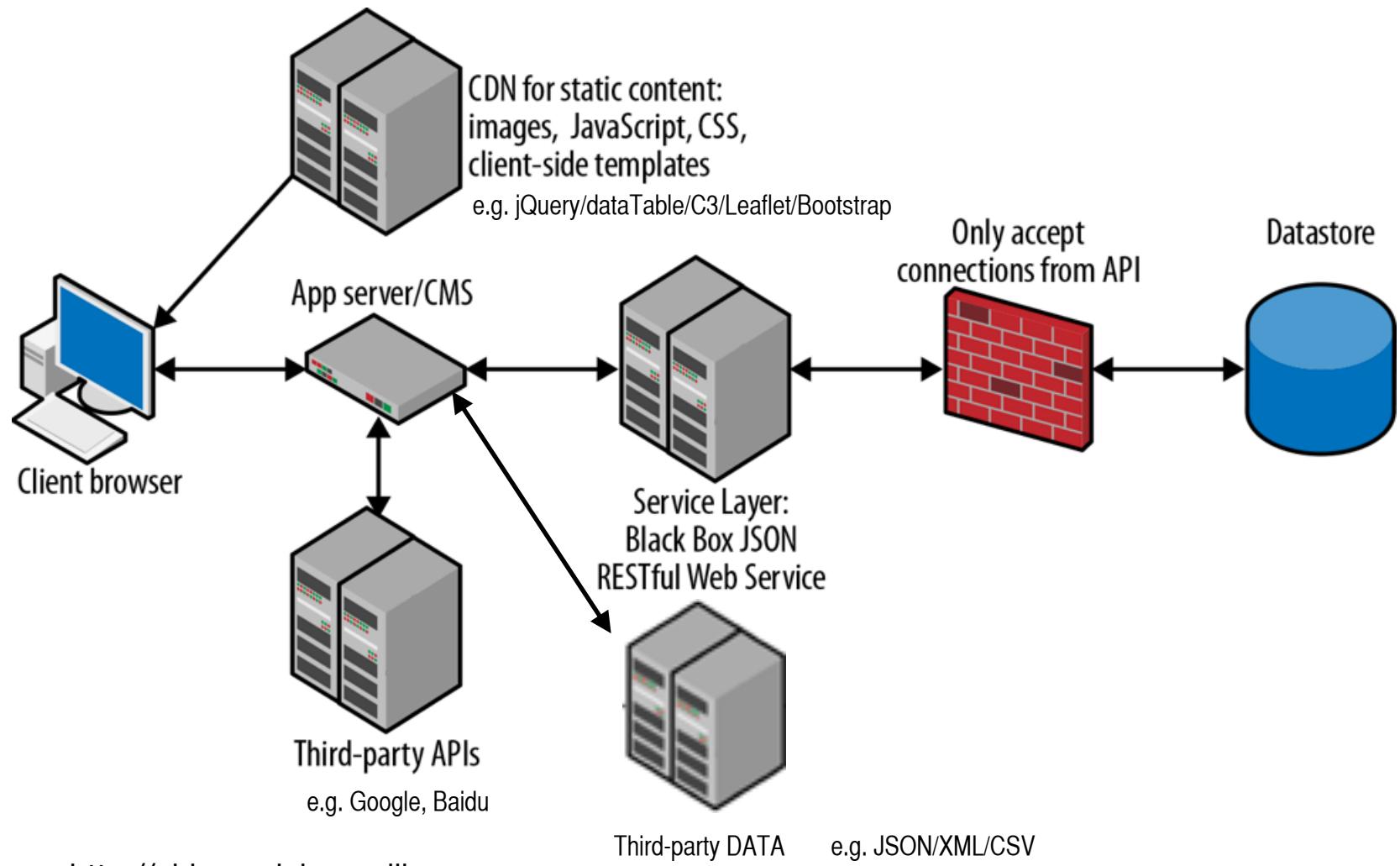
**We need to empower future T-shaped talents
to excel in a world connected with smart
cities, products, services, and systems but at
the same filled with fake news and
misinformation?**

Full Stack Development (Front-end to Back-end)

INFRASTRUCTURE FOR FULL STACK SOFTWARE DEVELOPMENT



Which functions should be processed on the front-end and which should be on the back-end?

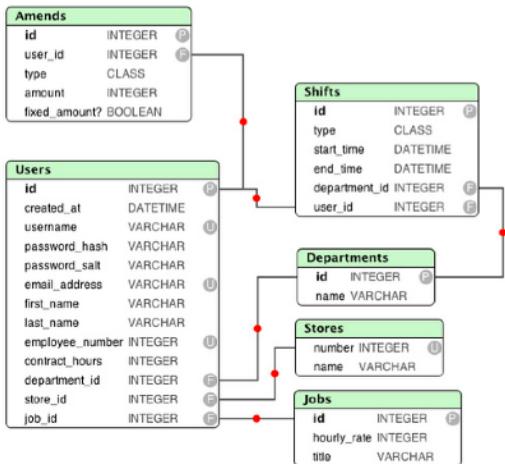


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M(odel)
(e.g. table, relations, and algorithms)

V(iew)
(e.g. responsive across different devices)

WP Plugins
WP APIs

C(ontroller)
(e.g. navigation routes, API end-points)



STARTUP RESOURCES

WHAT PROGRAMMING LANGUAGE IS ALIBABA BUILT IN?

 KITTY GUPTA — JULY 4, 2018

The banner for the FreelancingGig Free E-mail Signature Generator. It features the FreelancingGig logo and the text "FREE E-MAIL SIGNATURE GENERATOR". Below this is a yellow button labeled "Try It Now" and a preview of the generated signature.

TRENDING ARTICLES



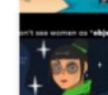
How to Download and Install WhatsApp for Java Phones



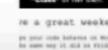
How to Create a WhatsApp Account With a U.S. Number



11 Jokes Only Programmers Will Find Funny



5 Hilarious Programming Jokes for Programmers



Programmer Jokes of The Day





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Alibaba is the largest business-to-business ecommerce platform in the world for small businesses. Alibaba Group started with Alibaba ecommerce website before starting out other ventures like AliExpress, Taobao, AliCloud, AliMusic and much more. The platform deals with importers and exporters of over 240 countries. To handle such high traffic, the technologies used in developing the platform needed to be modern and robust. It has not been developed with one programming languages. As a matter of fact, no website or web platform is developed around one programming language as such. Today, we are going to look in depth the programming languages used for one of the most used ecommerce platforms in the world.

Server Side Programming Languages -

Alibaba started its operation on 15th April 1999. At that time, it was totally based on the popular scripting language PHP. This does not come as a surprise as PHP was the go-to web development language at that time as far as the industrial level was concerned. There are many popular websites developed during that time which are based on PHP like Facebook for an example. But with the rise of the popularity of the platform, the company had to upgrade the technology and bring in more security and features to make the platform user-friendly. Therefore, at a later stage, JAVA was used as a server-side programming language for certain sections which plays a very important role for the website. The Spring framework has been used for implementing Java-based developments. But till date, PHP is the main server-side programming language.

For the server side, it relies on Tengine web server which is based on Nginx & Taoba. Taobao is a programming language developed by Alibaba Group, and it is based on PHP. The language is available in Chinese for the time being. It is mainly used for proxying contents that are static like CSS, static HTML pages, JS and likewise. This is the reason for its faster response time. Apart from these, it uses various software stacks, and one of them is CDN through Apache 2 for localized content. The operating system used on the web server is RedHat Linux. The servers are located in China and the United States.

Client Side Programming Languages -

Apart from the usual HTML, CSS, and JS, the website has constantly been upgrading its technologies and programming languages. For example, it has moved on to HTML5 and CSS3 after their release to be on the same page as the latest technologies and competitors. It heavily depends on JQuery for most of the unique features and functionalities offered to the users. For the JavaScript, different frameworks are used for robust development and making complicated things easy and organized.



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Server Side Programming Languages -

Alibaba started its operation on 15th April 1999. At that time, it was totally based on the popular scripting language PHP. This does not come as a surprise as PHP was the go-to web development language at that time as far as the industrial level was concerned. There are many popular websites developed during that time which are based on PHP like Facebook for an example. But with the rise of the popularity of the platform, the company had to upgrade the technology and bring in more security and features to make the platform user-friendly. Therefore, at a later stage, JAVA was used as a server-side programming language for certain sections which plays a very important role for the website. The Spring framework has been used for implementing Java-based developments. But till date, PHP is the main server-side programming language.

Alibaba is the largest business-to-business ecommerce started with Alibaba ecommerce website before starting AliExpress and much more. The platform deals with high traffic, the technologies used in developing the website were developed with one programming language. As a result, there was no need for multiple programming languages as such. Today, we are one of the most used ecommerce platforms in the world.

Server Side Programming Languages -

Alibaba started its operation on 15th April 1999. At that time, it was totally based on the popular scripting language PHP. This does not come as a surprise as PHP was the go-to web development language at that time as far as the industrial level was concerned. There are many popular websites developed during that time which are based on PHP like Facebook for an example. But with the rise of the popularity of the platform, the company had to upgrade the technology and bring in more security and features to make the platform user-friendly. Therefore, at a later stage, JAVA was used as a server-side programming language for certain sections which plays a very important role for the website. The Spring framework has been used for implementing Java-based developments. But till date, PHP is the main server-side programming language.

For the server side, it relies on Tengine web server which is developed by Alibaba Group, and it is based on PHP. It is being used for proxying contents that are being served through Apache 2 for localized content. The operations are located in China and the United States.

Client Side Programming Languages -

Apart from the usual HTML, CSS, and JS, the website also uses some client-side programming languages. For example, it has moved to React.js for the front-end page as the latest technologies and competitors. It has added more functionalities to offer to the users. For the JavaScript, it has used React.js which makes complicated things easy and organized.

For the server side, it relies on Tengine web server which is based on Nginx & Taobao. Taobao is a programming language developed by Alibaba Group, and it is based on PHP. The website also uses some client-side programming languages.

Agile Project Management

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腾讯与敏捷开发

在这风起云涌的年代，最为人们津津乐道的国内互联网三巨头无疑是腾讯、百度和阿里巴巴，比较凑巧，鄙人曾在其中两家的研发部门任职。因为已离开Tencent，所以现在可以站在另一个角度冷静思考，梳理回忆当年的所见所感，让众人一睹Tencent研发的峥嵘。

Tencent的产业布局主要在IM即时通讯、互联网增值业务、网络游戏、无线应用、网络媒体、电子商务和广告业务，QQ注册用户超过7亿、活跃用户超过3亿，依托QQ、Qzone、游戏等平台优势，单一产品月收入过千万的比比皆是，像会员、Qzone、宠物、QQShow等，盈利能力超乎想像的强，年Revenue达38亿、市值超150亿美金，称其为吸金机器一点不为过，所以股价一直坚挺，在其他科技股纷纷低迷，却被证券市场成熟的香港投资人持续追捧，这都说明大众非常看好Tencent的业务前景和盈利能力。

说完商业表现再说研发背后，Tencent现有员工约4K，其中约一半为研发，研发岗位主要有产品经理、项目经理、开发工程师、UI工程师、测试工程师、运维工程师以及项目管理工程师、SQA和CMO等，开发语言和工具以C++、PHP、Linux和MySQL为主。现有服务器超1W台，其中QQ同时在线约4KW，Qzone同时在线约500W，ITIL可用性指标超99.9%，以其中约300人的事业部门为例，同时研发/运营100个以上子产品，每月发布30个以上版本。

huidaoli

东华理工大学信工IT网-项目1+1学习基地 (www.ecit-it.com)

ThoughtWorks公司是一家全球IT咨询公司，它可能不像Google那么响亮，但有一个名字我们技术人员不可能不知道——Martin Fowler，堪称[软件开发](#)领域教父级的人物，他精通OO分析、架构设计和软件工程，立著颇多，像《UML精粹》、《重构》、《分析模式》、《企业应用架构模式》等不少获得Jolt大奖的著作都出自他的手笔，而他正是ThoughtWorks公司的首席科学家，同时也是敏捷联盟的17个始创人之一、以及敏捷宣言的起草人之一。至2008年，ThoughtWorks公司已连续举办了三届敏捷中国大会。

那么Tencent和ThoughtWorks两个不同类型的公司又是如何结下渊源的呢，话要从2006年说起，那时Tencent规模已经开始膨胀，开发模式急需规范和标准化，到底走IPD（集成产品开发）还是Agile（敏捷）的开发路线，公司管理层也在为拿不定主意而犯愁，之后研发管理部开始与ThoughtWorks公司接触，逐渐将敏捷产品开发引入进来，并正式命名为TAPD（Tencent Agile Product Development）。

接触是从一次3天15W的培训开始的，ThoughtWorks派来了一个4人讲师团队，三天的课程让人印象深刻，由此也诞生了Tencent日后推行敏捷的第一批种子。后来一想，这次培训本身就是敏捷的一次真实案例，成员临时抽调，有来自北京，也有来自西安；课程设置应我们临时要求即时调整，五天压缩成三天；讲解过程大量应用白纸、小纸条、图钉和白板等简单工具；关注学员的心情曲线等。这是一个拥抱变化的团队，从他们身上折射出沟通、简单、反馈和勇气的敏捷价值观。

简言之，Tencent的TAPD是吸收了XP+SCRUM+FDD三者特点的并行迭代开发模式，涉及范畴包括敏捷项目管理和敏捷[软件开发](#)。



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热点：王建宙回应退休传言:本已超期服役 中国iOS和Android设备月激活量超美国

IT频道 > IT业界 > 国内IT

伪敏捷开发方法暴露国内IT软件开发软肋

搜狐IT

来源：搜狐IT

2010年09月16日01:54

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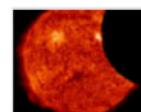
【搜狐IT消息】9月15日消息，ThoughtWorks近日召开以“敏捷十年--软件开发大变革”为主题的新闻发布会，回顾十年间软件开发行业发生的变化，展现敏捷开发从诞生，到日益受到开发人员关注，如今深远影响到软件开发实践的全过程。会后，ThoughtWorks中国区总经理郭晓、中国区技术总监徐昊接受了搜狐IT的专访，对敏捷开发方法及目前软件开发中存在的问题等做了揭示。

什么是敏捷开发方法

ThoughtWorks中国区总经理郭晓对搜狐IT介绍，从怎么写一个软件，对需求的理解，到怎么组织团队，在项目中期采用什么措施，这一系列最佳实践统称为敏捷开发(agile development)方法，敏捷开发方法在细微之处则略有不同。简单的说，敏捷开发是一种以人为核心、迭代、循序渐进的开

今日重点关注

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- 微软WP7.5正式入华 开发者和厂商认知度成疑
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互联网公司，为什么要用敏捷开发？真相了！

博为峰 博为峰网校
网校 百家号 | 17-06-07 17:41

什么是敏捷开发？

在工作期间，领导让我们尝试使用敏捷开发的思想，进行项目的开发，在这里和大家分享一下我在学习敏捷开发的一些心得：

在这之前，简单说说另一种常见模式：瀑布流模式。它是以文档为驱动，在整个开发过程中，开发人员根据需求文档进行开发，一切以文档为依据。



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44,147 views | Oct 27, 2015, 09:15am

Surprise: Microsoft Is Agile

**Steve Denning** Senior Contributor

Leadership Strategy

I write about Agile management, leadership, innovation & narrative.

- f Last month, Brian Harry, corporate vice president of Microsoft, received an unexpected complaint on his blog. Is Microsoft *too* focused on Agile?
- t “It is obvious,” a reader (Kasper L) wrote, “that you have focused on agile tools the last 6 months... My question is how long are you going to focus on this area?”
- in

The idea that Microsoft is focused on Agile at all will come as news to some. "Microsoft? Agile? Are you kidding?" The image that many have had of this giant corporation with 2014 revenues of \$86 billion and 128,000 employees is that of a giant battleship that is strong and powerful but slow to maneuver and not always customer-friendly.

Before

- 4-6 month milestones
- Horizontal teams
- Personal offices
- Long planning cycles
- PM, Dev, Test
- Yearly customer engagement
- Feature branches
- 20+ person teams
- Secret roadmap
- Bug debt
- 100 page spec documents
- Private repositories
- Deep organizational hierarchy
- Success is a measure of install numbers
- Features shipped once a year

After

- 3-week sprints
- Vertical teams
- Team rooms
- Continual Planning & Learning
- PM & Engineering
- Continual customer engagement
- Everyone in master
- 8-12 person teams
- Publicly shared roadmap
- Zero debt
- Specs in PPT
- Open source
- Flattened organization hierarchy
- User satisfaction determines success
- Features shipped every sprint



敏捷开发中用户故事地图(User Story Mapping)学习

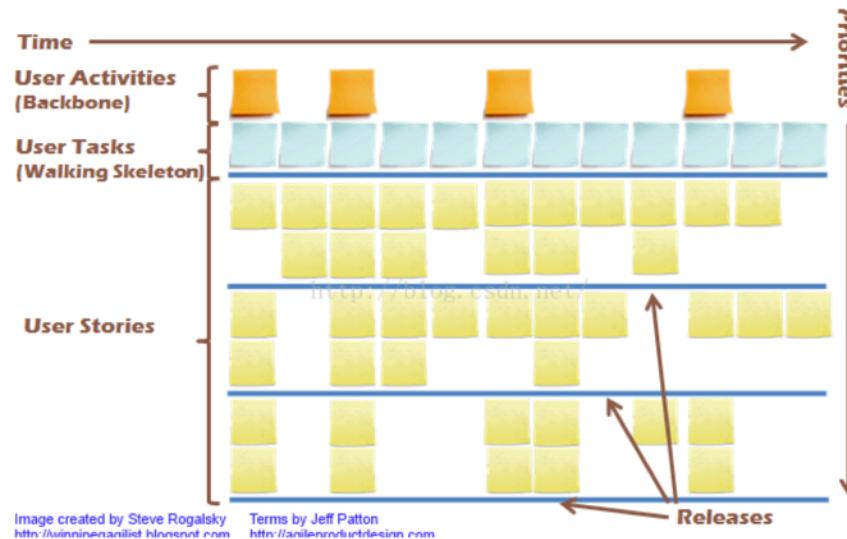
2016年09月25日 20:07:11 [佚名-2018_](#) 阅读数: 3485

1. 用户故事地图

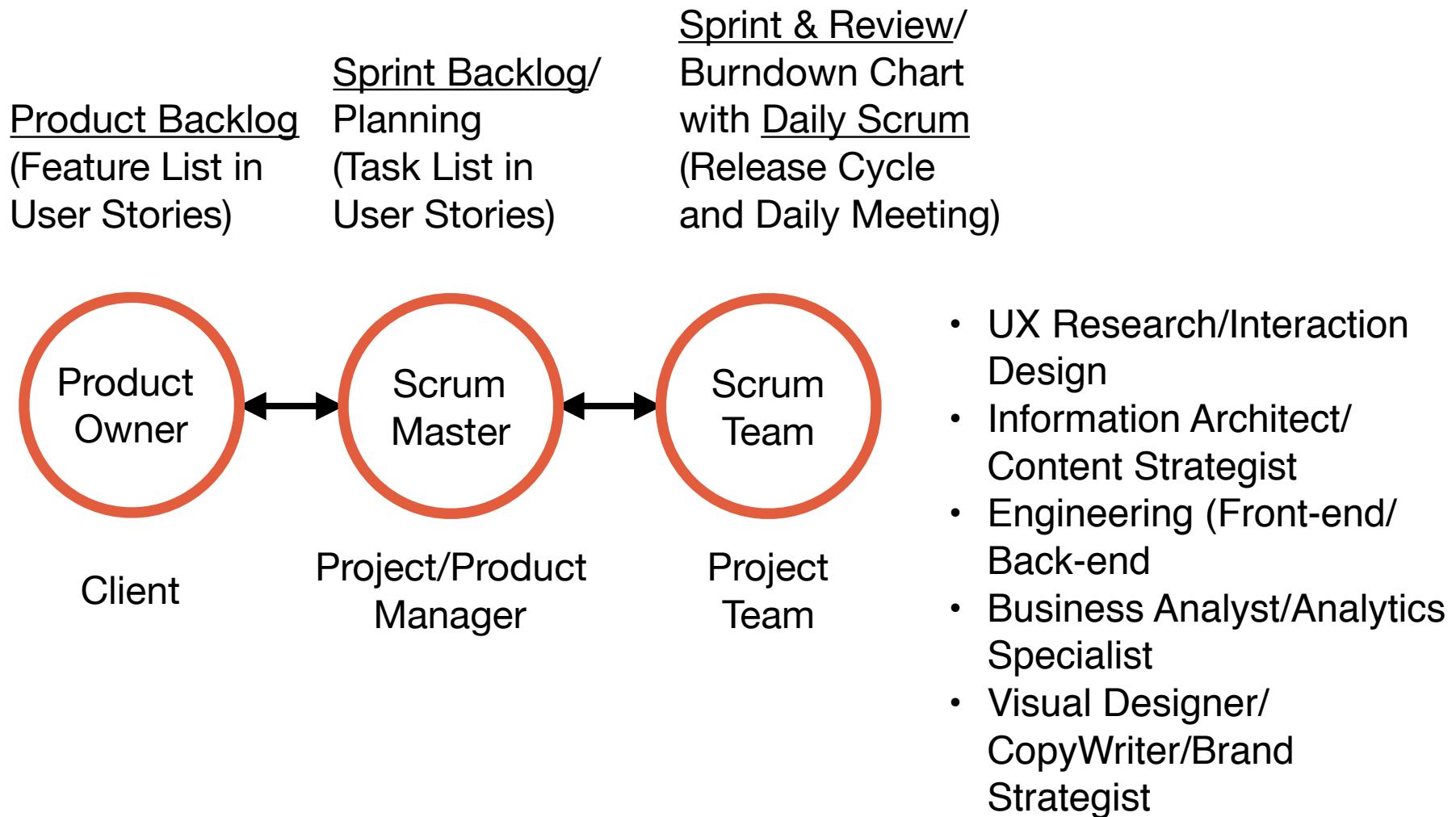
User Story是敏捷开发和管理的核心，User Story是从用户的角度对系统的某个功能模块所作的简短描述。一个User Story描述了项目中的一个小功能，以及这个功能完成之后将会产生什么效果，或者说能为客户创造什么价值。

用户故事地图，英文名为User Story Mapping。用户故事地图已经成为敏捷需求规划中的一个流行方法。用户故事地图可以将你的backlog（待办事项）变成一张二维地图，而不是传统的简单列表。

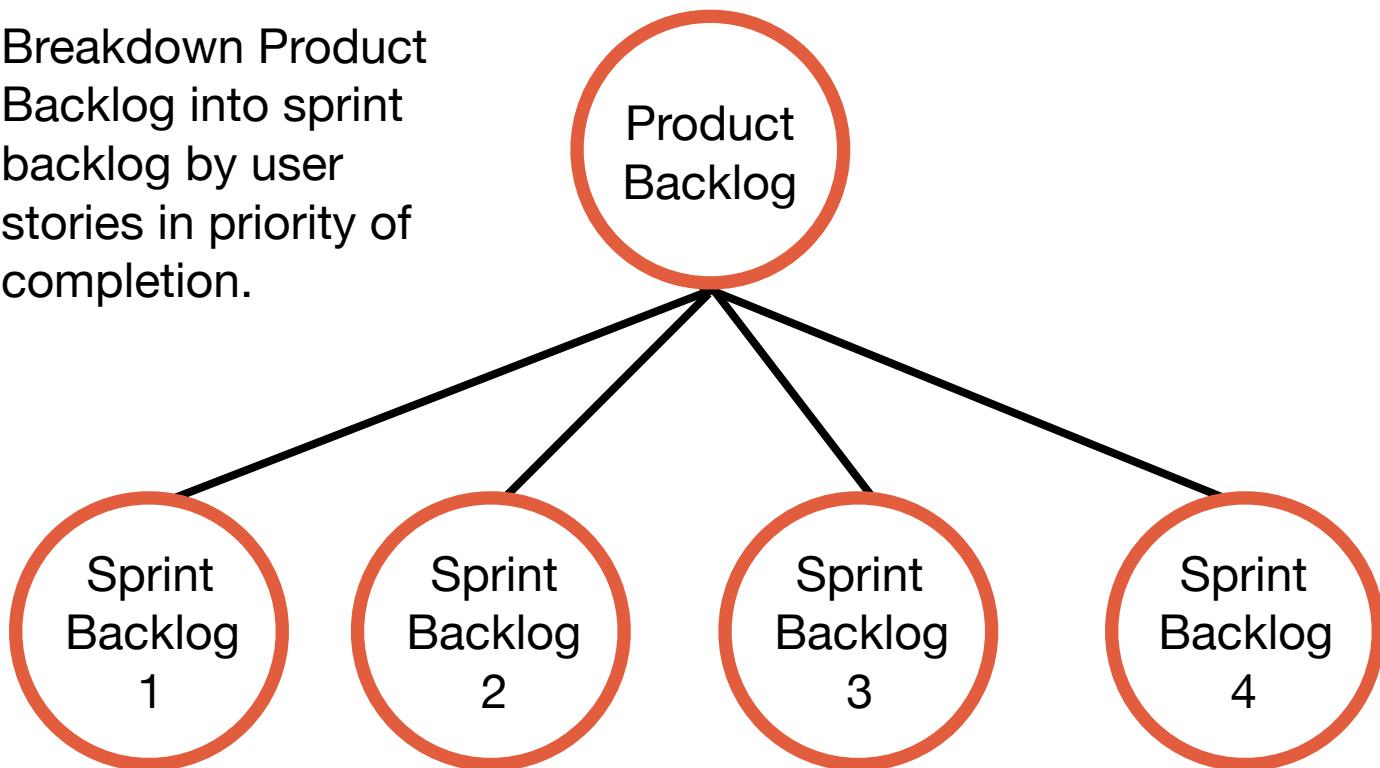
2. 用户故事地图编写模板



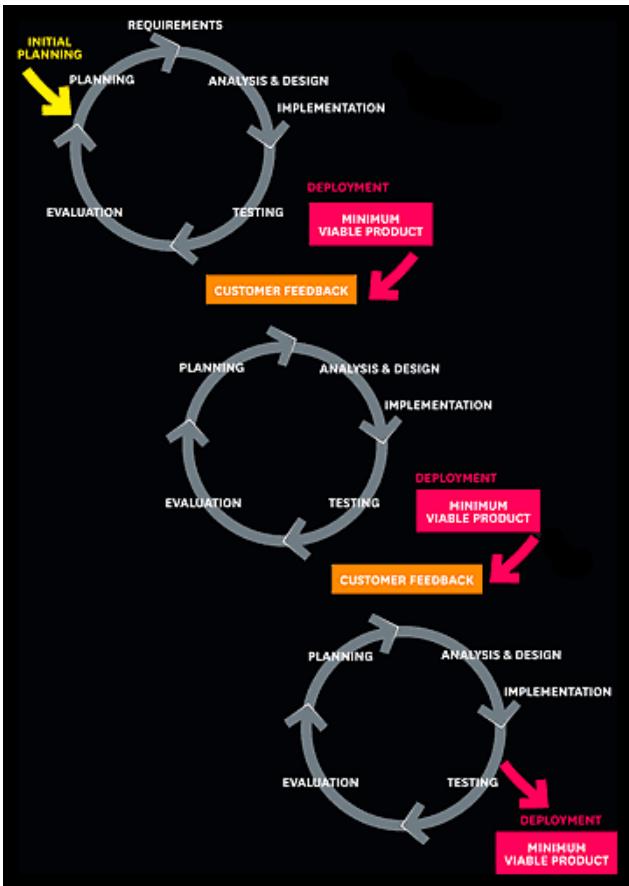
**What went
wrong?**



Breakdown Product Backlog into sprint backlog by user stories in priority of completion.







Source: "Why Lean Start-up Changes Everything"
by Steve Blank

Sprint Planning (Release Planning)



Sprint Review (Release Review)

Daily Scrum (Daily Meeting)

Each build-measure-learn cycle (ends with a review) is called a "sprint" usually measured in 1 to 3 weeks.



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Salary Estimate

\$70,000+ (447)
\$85,500+ (356)
\$95,100+ (288)
\$105,000+ (206)
\$120,000+ (91)

Job Type

Full-time (502)
Contract (20)
Internship (13)
Temporary (8)
Part-time (5)
Commission (1)

Location

New York, NY (33)
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DHI Telecom Group
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Full Stack Developer salaries by company in United States

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City, state, or zip code

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Salary Estimate

\$25,000+ (5525)

\$30,000+ (4729)

\$40,200+ (2851)

\$100,000+ (2096)

\$125,000+ (1076)

Job Type

Full-time (5638)

Part-time (239)

Contract (117)

Internship (44)

Temporary (31)

Commission (6)

Location

New York, NY (202)

San Francisco, CA (180)

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Mean Stack Developer

Cognizant ★★★★★ 10,661 reviews

San Jose, CA +1 location

Familiarity with the whole web stack, including protocols and web server optimization techniques. Roles & Responsibilities:....

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Full Stack Developer - MEAN stack

L&T Infotech ★★★★★ 989 reviews

New York, NY

Angular JS, Node JS, Mongo DB, TDD, MEAN stack, Redis/Memcache. UI/ stack developer with working knowledge of following technologies:....

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Full Stack MEAN developer

Elevate Blue

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Job title, keywords, or company

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Salary Estimate

\$100,000+ (1269)

\$105,000+ (1180)

\$115,000+ (787)

\$120,000+ (607)

\$130,000+ (326)

Job Type

Full-time (1473)

Contract (68)

Internship (22)

Temporary (13)

Part-time (8)

Commission (7)

Location

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CSS/JavaScript/React/Node

Carfax 80 reviews

Columbia, MO 65201

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Full Stack Engineer

Auth0

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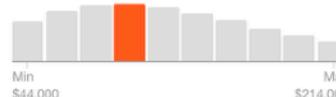
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\$113,628 per year

Based on 33,397 salaries



Full Stack Developer salaries by company in United States

<https://www.indeed.com/q-React-Node-Full-Stack-Developer-jobs.html>



https://www.youtube.com/watch?v=0rK5xs8_rnQ

**But instead of using MongoDB, we
choose to use PostgreSQL
(Postgres) and Elasticsearch.**

LAMP

MEAN

MERN

MFRP

✓ (L) inux	✓ (M) ongoDB	✓ (M) ySQL	✓ (M) ySQL
✓ (A) pache	✓ (E) xpress	✓ (E) xpress	✓ (F) lask
✓ (M) ySQL	✓ (A) ngularJS	✓ (R) eact	✓ (R) eact
✓ (P) HP	✓ (N) odeJS	✓ (N) odeJS	✓ (P) ython

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STACKS

Developer

Analytics and Data Scie...

Productivity and Operat...

Product and Design

DevOps and IT

Marketing

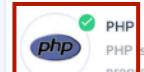
HR

GROUPS WECHAT BELONGS TO

Social and Messaging

PRODUCTS FROM WECHAT

WeChat API

Products WeChat uses
<http://www.wechat.com> (15 Products)

PHP

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language.



MySQL

MySQL is an open source database that supports scalable web-based and embedded database applications.

ANALYTICS AND DATA SCIENCE



adjust

adjust is a business intelligence platform for mobile app marketers, combining attribution for advertising sources with advanced analytics.



Google Analytics

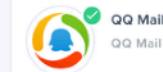
Google Analytics is a free service that generates detailed statistics about the visitors to a website.

PRODUCTIVITY AND OPERATIONS



Google Drive

Google Drive is a cloud storage service that lets you store and access your files anywhere .



QQ Mail

QQ Mail is an enterprise email solution from Tencent.

PRODUCT AND DESIGN



Google Fonts

Free, open-source fonts optimized for the web.

DEVOPS AND IT



WordPress

WordPress is an online platform that enables users to create personal blogs and business websites for free.



nginx

Nginx is a free, open-source, high-performance HTTP server and reverse proxy, as well as an IMAP/POP3 proxy server.

<https://siftery.com/company/wechat>

Siftery Discover by GROW

Search...

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STACKS

- Marketing
- Developer**
- Analytics and Data Science
- Product and Design
- DevOps and IT
- Productivity and Operations
- Customer Support and ...

GROUPS ALIBABA GROUP BELONGS TO

- Forbes Asia's Fab 50
- Industry Ventures Per ...

PRODUCTS FROM ALIBABA GROUP

- Alipay

ANALYTICS AND DATA SCIENCE

- Yandex Metrica
- Umeng
- Google Analytics

PRODUCT AND DESIGN

- Google Fonts
- AppLaunched

DEVOPS AND IT

- WordPress
- GlobalSign

HTML5
HTML5 is a markup language used for structuring and presenting content on the World Wide Web.

Bootstrap
Bootstrap is a mobile first front-end framework for faster and easier web development.

Underscore.js
Underscore.js is a JavaScript library which provides utility functions for common programming tasks.

Python
A general purpose, high level programming language

Want to see more? + 2 MORE

Products Alibaba Group uses
<http://www.alibaba.com> (38 Products)

WordPress
WordPress is an online platform that enables users to create personal blogs and business websites for free.

GlobalSign
GlobalSign provides identity verification and trust services.

<https://siftery.com/company/alibaba-group>



AIRTABLE

PRODUCT

JOBS

TEAM

INVESTORS

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Share



Full-stack Engineer at Airtable

San Francisco · Full Time

Apply to Airtable

[AIRTABLE](#)[PRODUCT](#)[JOBS](#)[TEAM](#)[INVESTORS](#)[Apply Now](#)

Share

Job Description

Airtable is a uniquely challenging product — it has a purpose-built relational database engine supporting realtime synchronization between different users, collaborative undo and formula calculations, and visual revision history. On the outside, it has a polished, desktop-grade web interface and beautifully tap-friendly mobile apps.

We're looking for engineers who understand the difference between solving hard computer science problems and writing highly maintainable code in a team setting, and can cheerily excel at both. Unlike single-purpose apps, we think of Airtable as a horizontal toolkit composed of intuitive building blocks that people can repurpose to create their own applications. Our product roadmap is filled with interesting enhancements and additions to this toolkit that greatly expand the boundaries of Airtable's capabilities.

WHAT YOU'LL DO

* Work at all levels of the stack, from AWS+Node.js+SQL to React+HTML+CSS.

* Take full ownership and responsibility for building, shipping, and maintaining core Airtable features, end to end.

* Design and architect complex new systems, focusing not only on performance and scalability, but also on crafting a beautiful user experience.

Skills

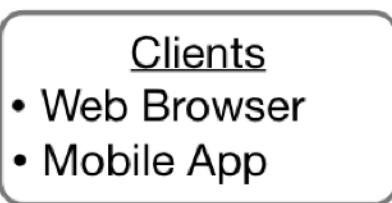
Web Development, Databases

Compensation

\$80k – \$160k
0.0% – 1.0%

Digital Infrastructure for Platform Development

云计算的三层架构



Software (软件)



Platform (平台)



Infrastructure(基建)

(Full Stack Developer
由全栈工程到全栈创业)

Public(公共)/Private(私人)/Hybrid Clouds(混合)

GROWTH STRATEGY

The Strategic Value of APIs

by Bala Iyer and Mohan Subramaniam

JANUARY 07, 2015

McKinsey&Company
Digital McKinsey

How We Help Clients Our Insights Careers Our People Contact Us

Article
October 2017

Management's next frontier: Making the most of the ecosystem economy

By Jürgen Metzert and Anand Swaminathan

API經濟來了：從開放創新到Open API

by 《數位時代》整合行銷部 2014.11.04



McKinsey&Company
Digital McKinsey

How We Help Clients Our Insights Careers Our People Contact Us

What it really takes to capture the value of APIs

≡ Deloitte.
Insights

Article

API economy

From systems to business services

IBM Cloud 雲端平台 > 瞭解雲端

API 經濟

在您的營運模式中加入 API，
藉此催化創新並觸角伸向新對象

[觀賞影片 \(01:25\)](#)[閱讀 API 入門電子書](#)

關於 IBM

參加評估





API (e.g. RestFUL)



BACK-END TECHNOLOGY

后台

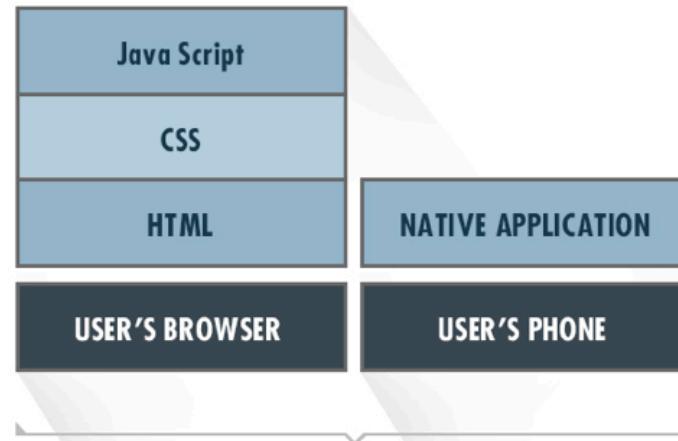
WHAT IS YOUR “CLOUD” AND “STACK” STRATEGY?

云架构及前端和后端的全栈策略

{ JSON }



THE INTERNET



CLIENT-SIDE

FRONT-END TECHNOLOGY

前台

Platform and API Growth Bring Along
More Data for Mining Patterns

Sample Students' Projects



[Home](#) [About Archery](#) [Tutorials](#) [Ranking](#) [Clubs](#)

HONG KONG RANKING

See the latest rankings and top players' excellent performance.

HONG KONG RANKING

Show 10 entries

 Search:

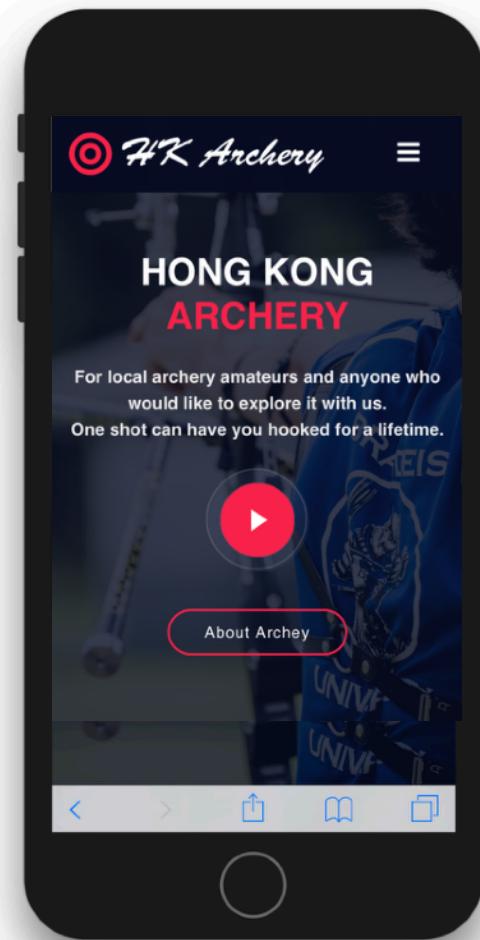
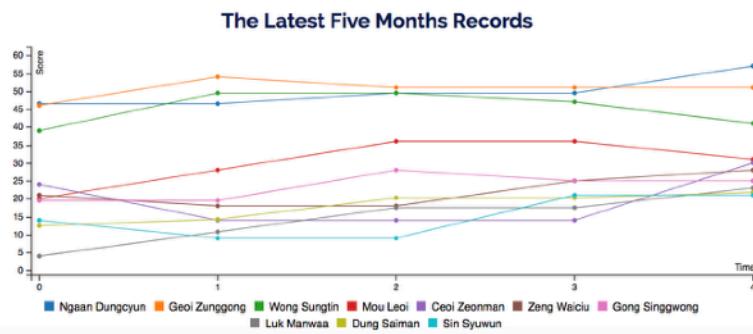
Ranking	Name	Club	Latest Score	Average Score
1	Ngaan Dungcyun	EAC	57	49.8
2	Geoi Zunggong	GTAC	51	50.6
3	Wong Sungtin	LSAC	41	45.2
4	Mou Leoi	STAC	31	30.2
5	Ceoii Zeonman	NDAC	30	19.2
6	Zeng Waiciu	IEAC	28	22
7	Gong Singgwong	NDAC	25	23.4
8	Luk Manwaa	PERSONAL	23	14.55
9	Dung Saiman	NDAC	21.75	17.8
10	Sin Syuwun	HKUST	21	14.8

Showing 1 to 10 of 10 entries

Previous

1

Next



— 精選專題 —

點擊按鈕，查看特色專題詳情。

再次點擊按鈕可關閉詳情。



聖誕專題

最適合歡度聖誕的餐廳

[立即查看](#)



新店探路

在高分新店中邂逅驚喜

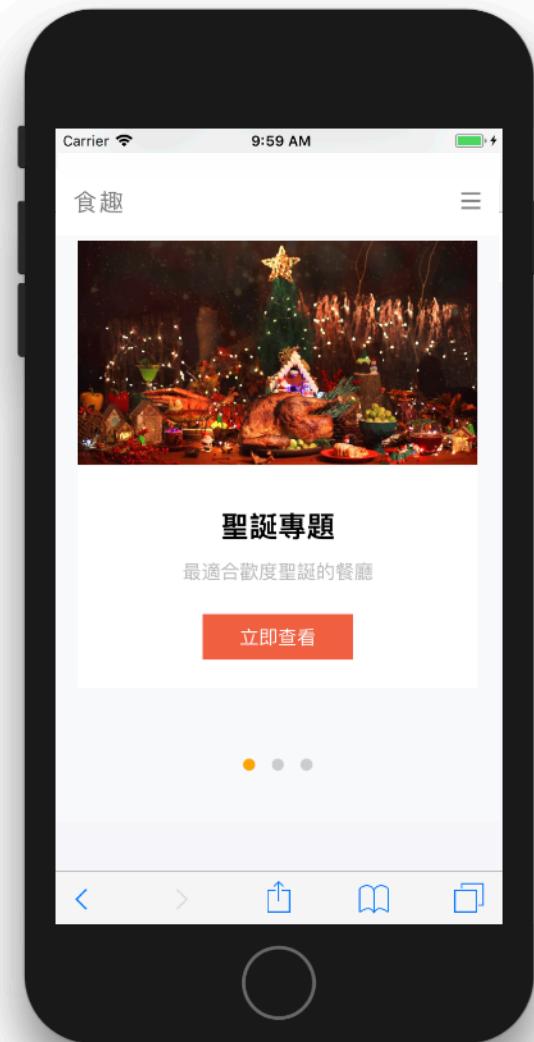
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奶茶推介

滿滿幸福感和療愈力

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適合家人孩子的溫馨餐廳

對比餐廳

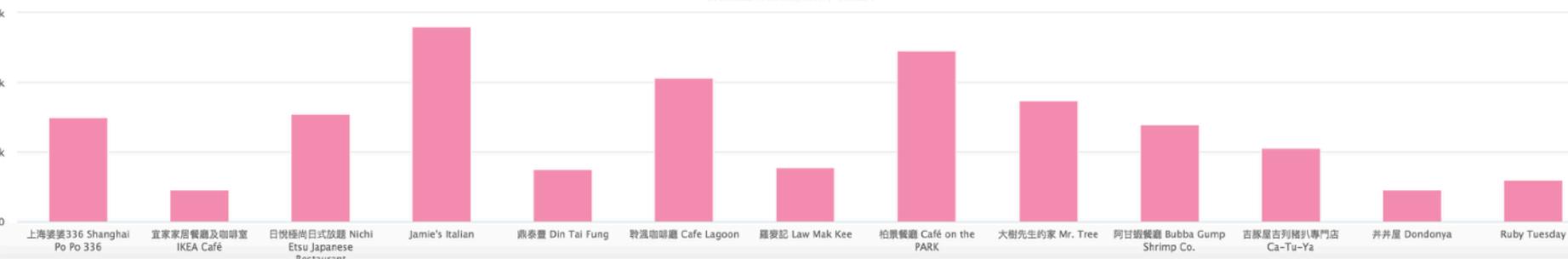
口碑參數對比

比較餐廳的好評、中評和差評數目



餐廳被收藏的次數對比

被收藏越多次的餐廳吸引力可能越大





HK免稅紅酒指南

HK FREEDUTY WINE GUIDE

特色活動2018

酒的盛宴

❖ 品酒之旅

香港葡萄酒學院

2018(11月)

由香港貿發局與香港理工大學酒店及旅遊管理學院(SHTM)共同籌辦,亞洲葡萄酒學院2018

屆將舉辦兩堂"精修課程",由著名的葡萄酒大師李志延和Sarah Heller主講,分享他們對佳釀

的真知灼見. 學員更有機會品味世界各地的極品佳釀,重點品試法國及意大利的美酒.今年的

學員人數超過500人(比2017年增加了50%以上),其中年輕人的比例上升了20%,不少人表示

自己之前對品酒知識知之甚少,該課程使得他們提高了鑒別美酒級別的能力

免稅酒基本信息

美酒價格參照

免稅酒詳細

HK銷量前三比價

HK免稅酒購買勝地

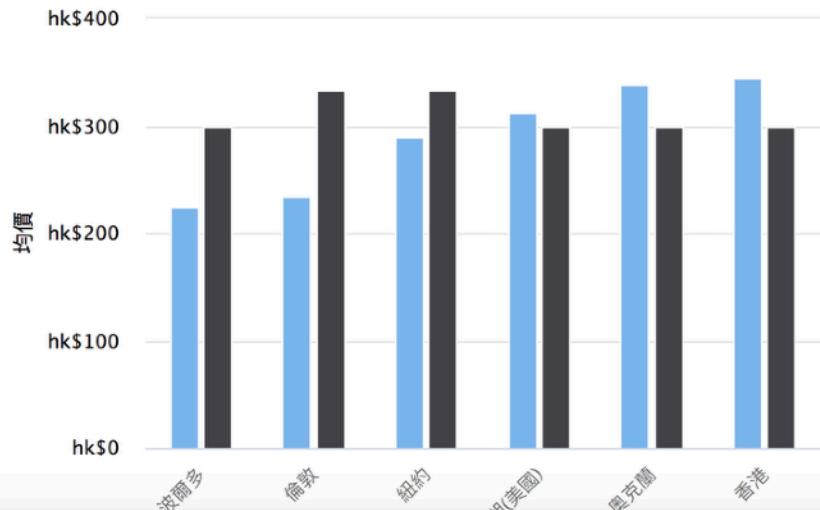
亞洲葡萄酒學院
2018

基本信息 / 參照 / 詳細

全球產地比價:Chateau Quinault l'Enclos 2012

全球產地比價

x軸:主要產地,y軸(左):均價,y軸(右)



MENU



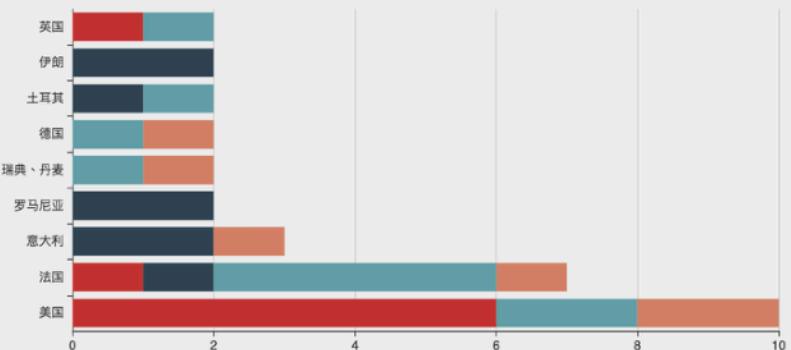
带你了解顶尖国际影展

MENU

Analysis

各国近10年获奖统计

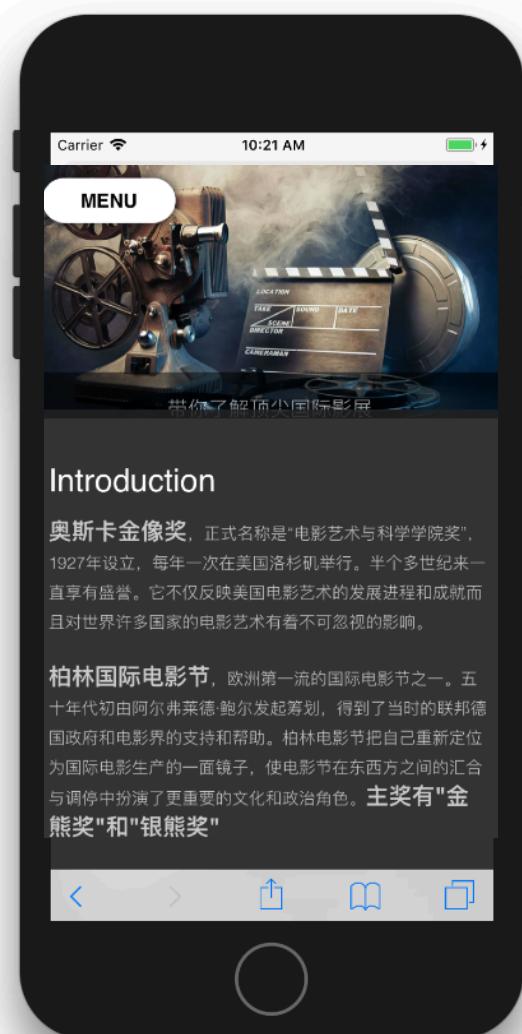
■ 金像奖 ■ 金熊奖 ■ 金棕榈奖 ■ 金狮奖

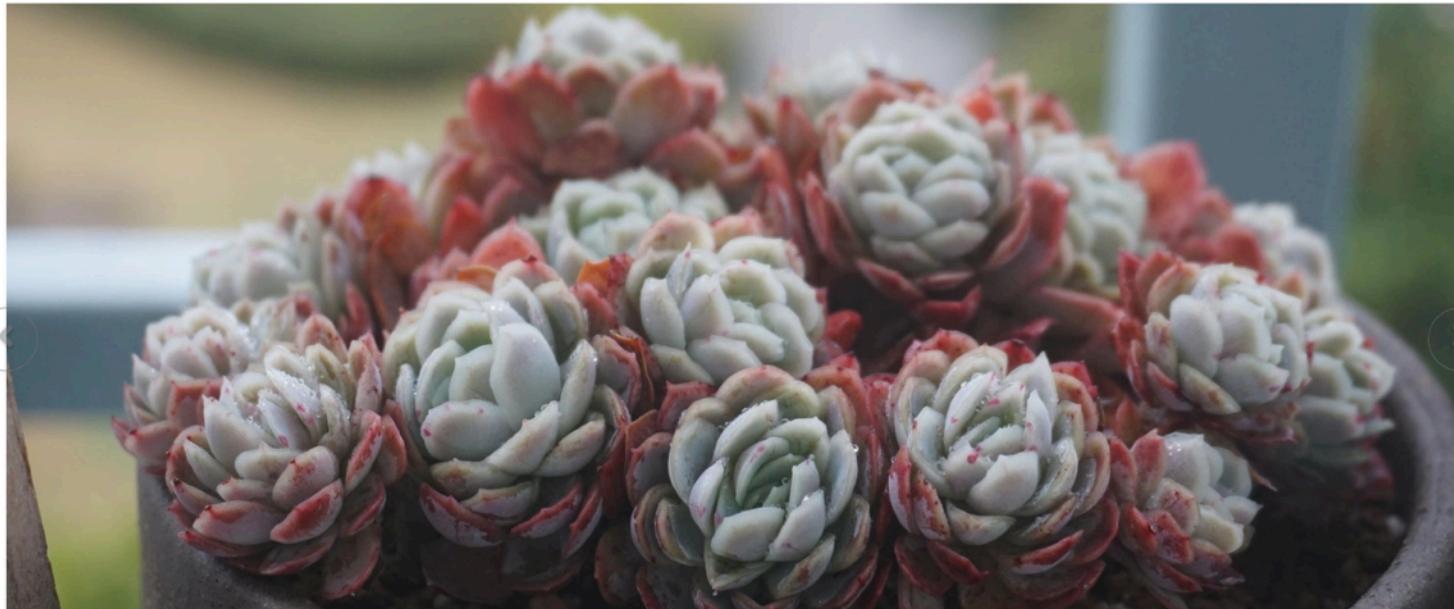


在最近10年里，美国获得最多次金像奖和金狮奖（金像奖并不是国际奖，评奖作品要求有美国人投资），法国获得最多次金棕榈奖。金熊奖片。（ps：仅获得一次奖项的国家将不在该表展现，eg.中国、日本）

获奖导演年龄分布

■ 1930年代 ■ 1940年代 ■ 1950年代 ■ 1960年代 ■ 1970年代





我适合买什么植物？

不管是在家中还是在办公室，添上一盆绿植，整个场所都会显得生机勃勃。

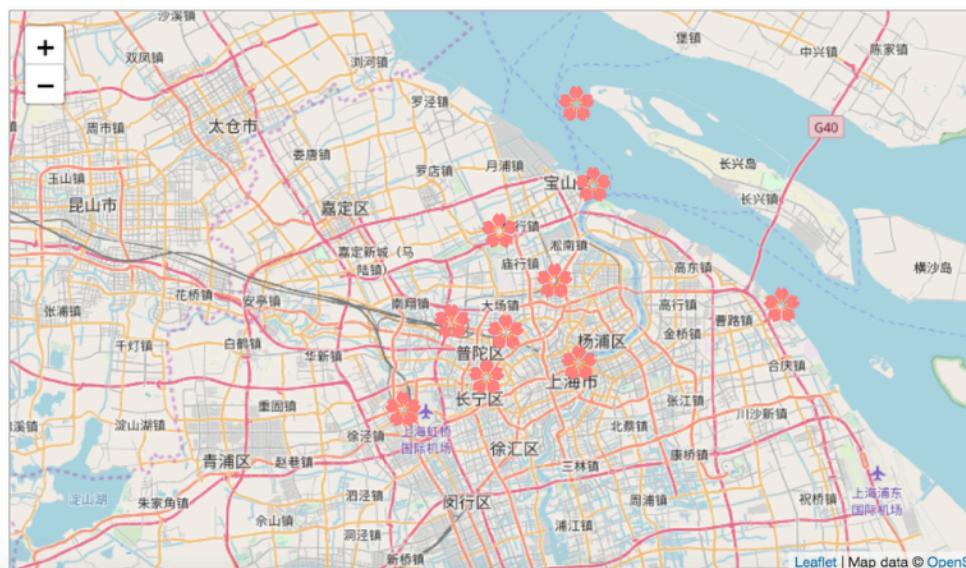
如果不知道什么植物适合你，那么，就来看看下面这个表格吧！

如果你已对常见植物都有所熟识，不如探索一下“特别专题”，希望能给你特别的惊喜。

哪里可以买到？

这里收录了上海较为出名的花木市场，点击下方的按钮即可显示
在一个阳光明媚的双休日去买一盆植物吧

[点击查看花鸟市场](#)



THANK YOU FOR YOUR TIME!