



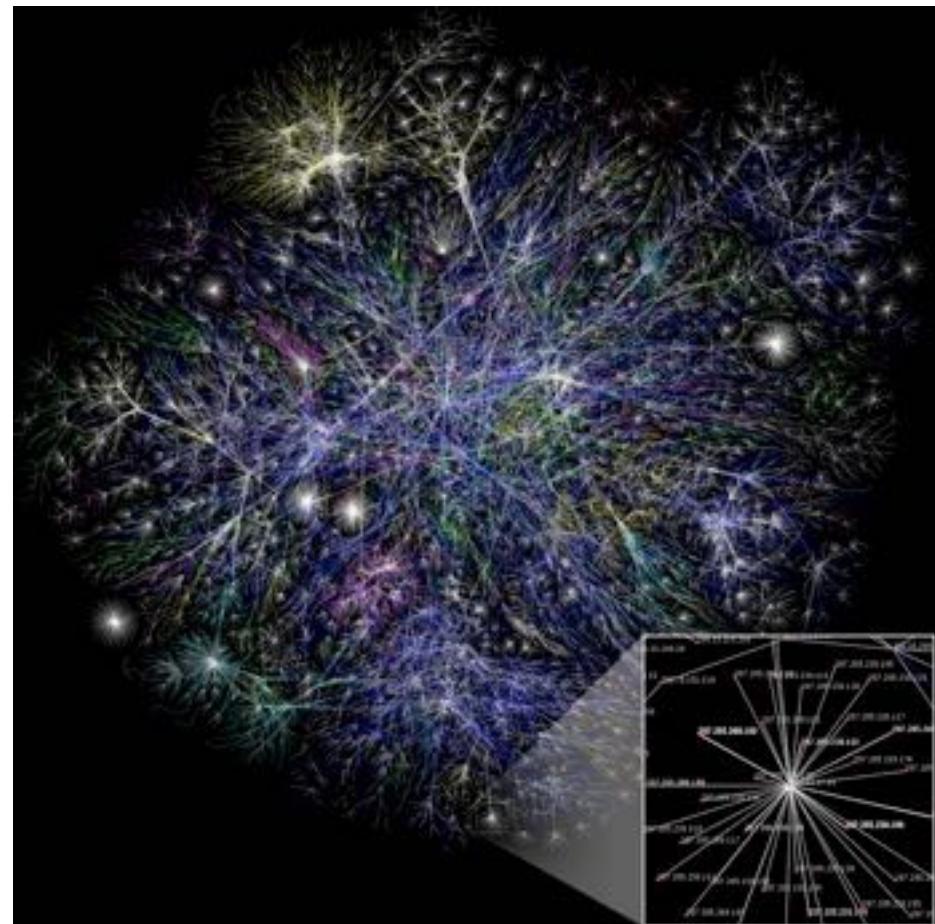
COM3504-COM6504

The Intelligent Web

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Professor of Pervasive Computing
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University of Sheffield
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Lab Assistants: Matt Barber and Jack Deadman

Internet

- a world-wide collection of heterogeneous computers interconnected



Matt Britt

A small partial map of the [Internet](#)

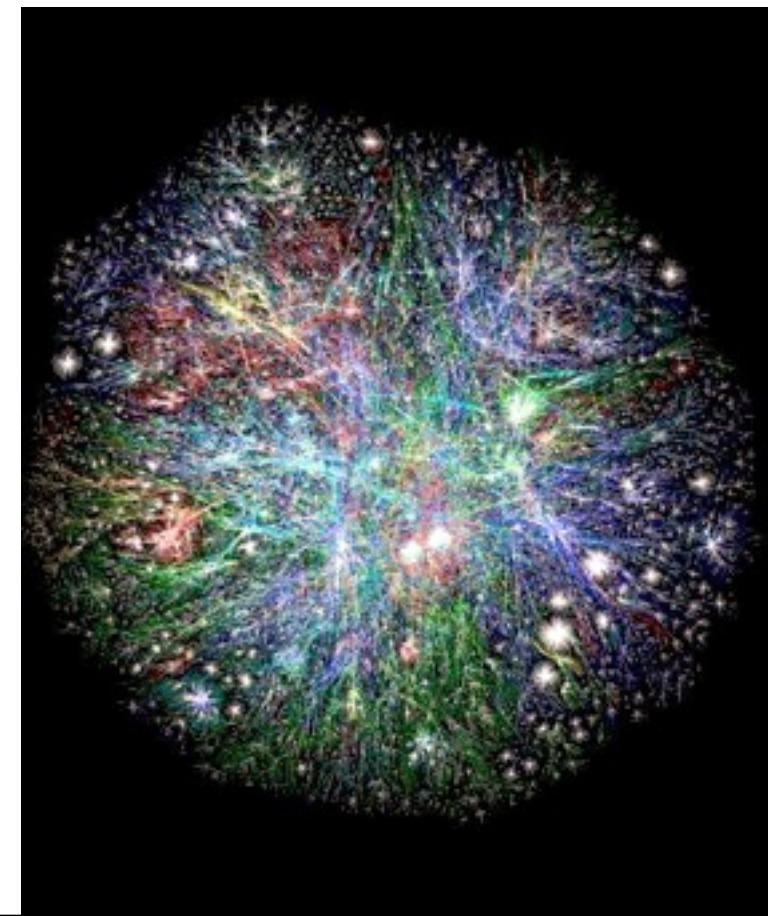
Surce: Wikipedia

The World Wide Web

- The Web is a way of accessing information over the internet
- It is an information-sharing model based on the HTTP protocol
- HTTP is one of the languages used to transmit data over the internet

3D Map of the World Wide Web

The most popular image of the WWW according to Google
www.vlib.us





Moore's, Nielsen's and Disk Space Law

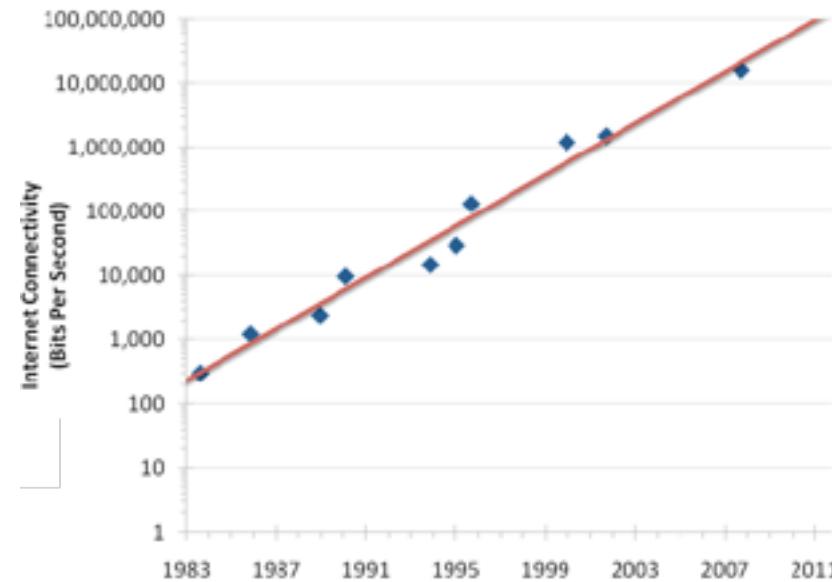
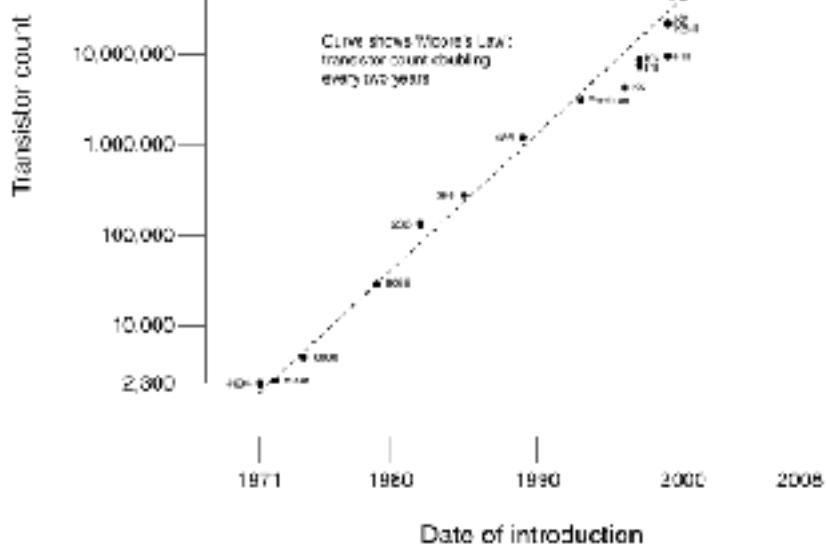
Backblaze Average Cost per GB for Hard Drives

By Quarter: Q1 2009 - Q2 2017



Computer power, speed of broadband and disk storage capability doubles every year (same cost)

The same computer power, speed of broadband and disk storage capability will cost half the current price in 2 years' time (and basically will use half space)

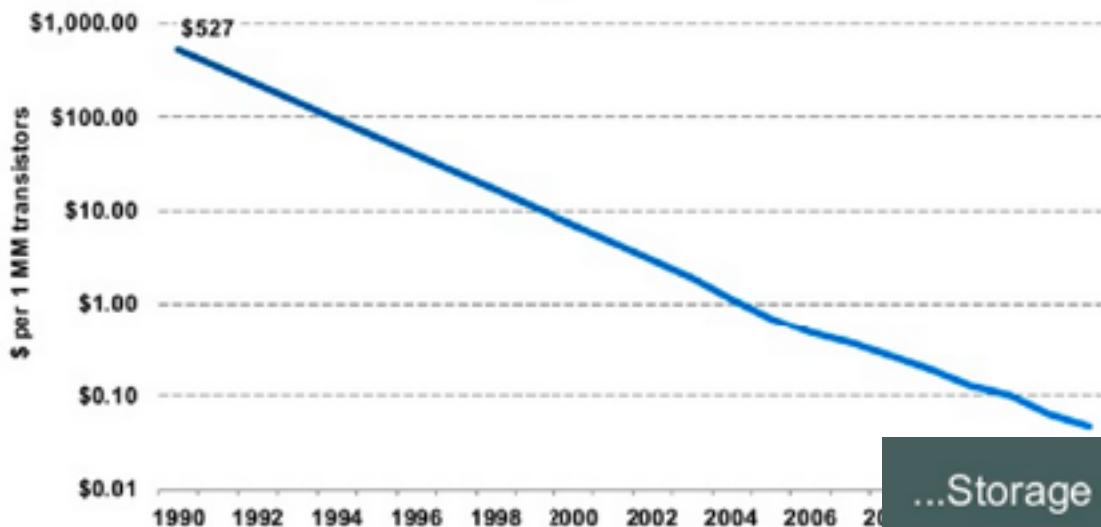


Compute Costs Declining = 33% Annually, 1990-2013...

Decreasing cost / performance curve enables computational power @ core of digital infrastructure...

<http://www.kpcb.com/internet-trends>

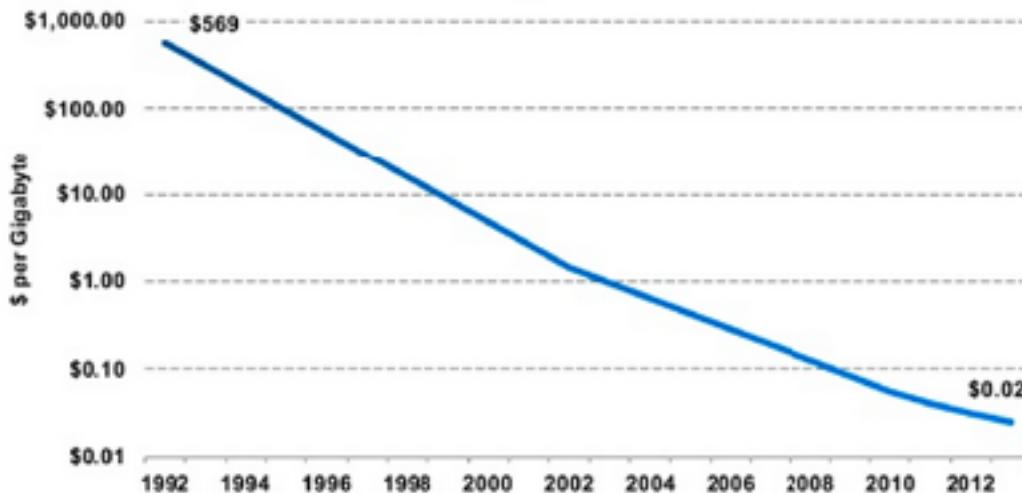
Global Compute Cost Trends



...Storage Costs Declining = 38% Annually, 1992-2013...

Decreasing cost / performance of digital storage enables creation of more / richer digital information...

Global Storage Cost Trends





Then by applying linearly these laws

	2020	2025	2030	2035
Networks	50M	300M	1.6G	9.6G
Computers	£600	£3,600	£19,200	£115,200*
Disks	1T	6T	32T	192T

* The equivalent to 192 computers

You do not believe it?



50 years ago and today



Source: <https://www.slideshare.net/sqrajper/mobile-computing-24722802>

Technology Cycles – Still Early Cycle on Smartphones + Tablets, Now Wearables Coming on Strong, Faster than Typical 10-Year Cycle

Technology Cycles Have Tended to Last Ten Years

Mainframe Computing
1960s

Mini Computing
1970s

Personal Computing
1980s

Desktop Internet Computing
1990s

Mobile Internet Computing
2000s

Wearable / Everywhere Computing
2020+



Others?

KPCB

49

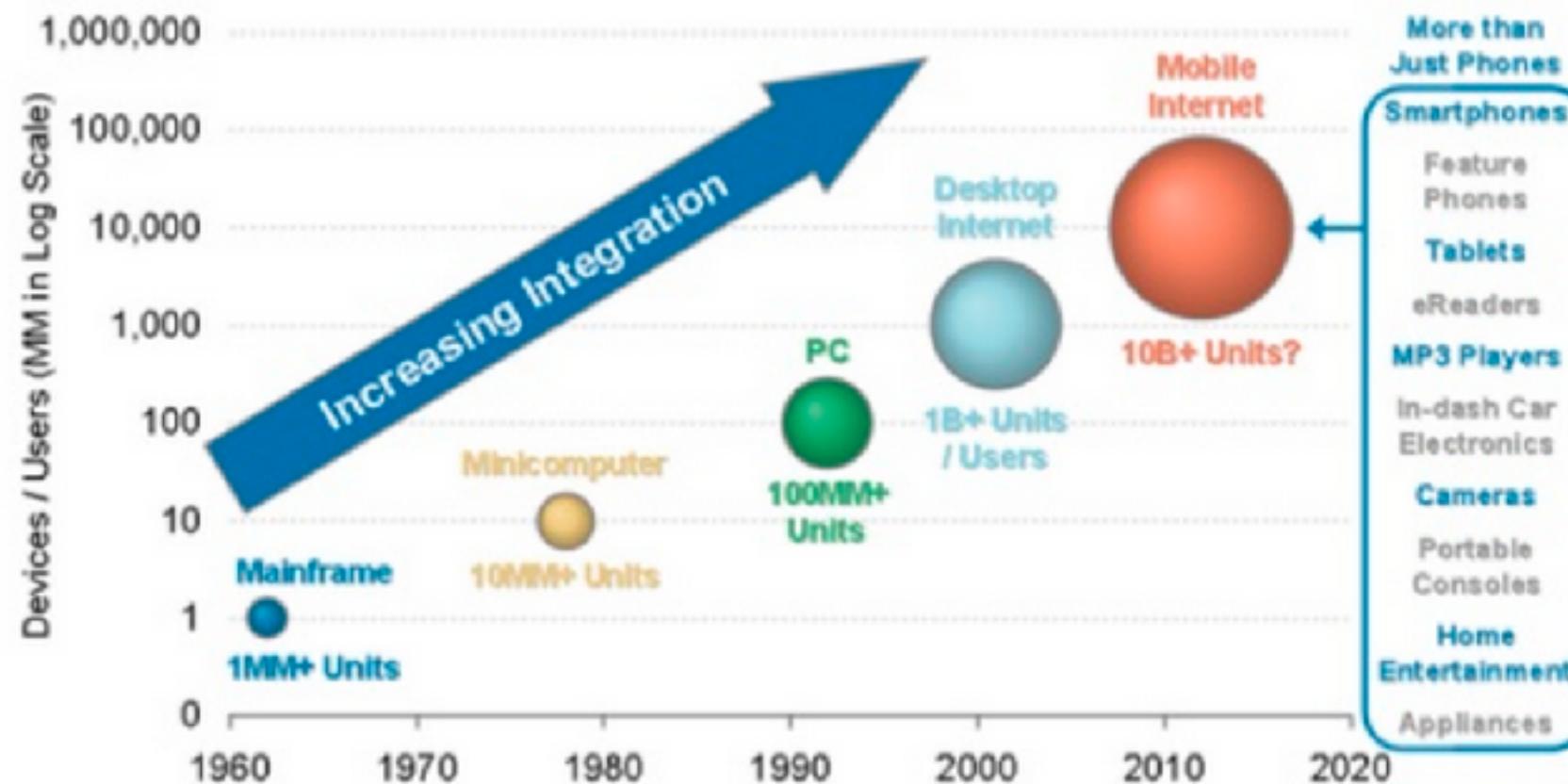
Image Source: Computer sciencelab.com, Wikipedia, IBM, Apple, Google, NTT docomo, Google, Jawbone, Pebble.

Each New Computing Cycle = 10x > Installed Base than Previous Cycle

Exhibit 29

**Each new computing cycle typically generates
around 10x the installed base of the previous cycle**

Devices or users in millions; logarithmic scale



Source: Morgan Stanley Mobile Internet Report (12/09)

The Digital World

Building a Digital Knowledge Economy in the 21st Century will be fundamental to the UK's future prosperity. For the country to reap the maximum benefits, we need to put people at the centre of all our digital thinking.

Digital Britain, Final Report, June 2009

- Analysis of requirements of real users
- Development and use of Digital Technologies
- Study of their impact on the society
- (repeat)





No longer office machines



in my eyes (not an office machine)

What is important here is the idea, not the actual product (which failed from a commercial point of view btw)



amazon echo

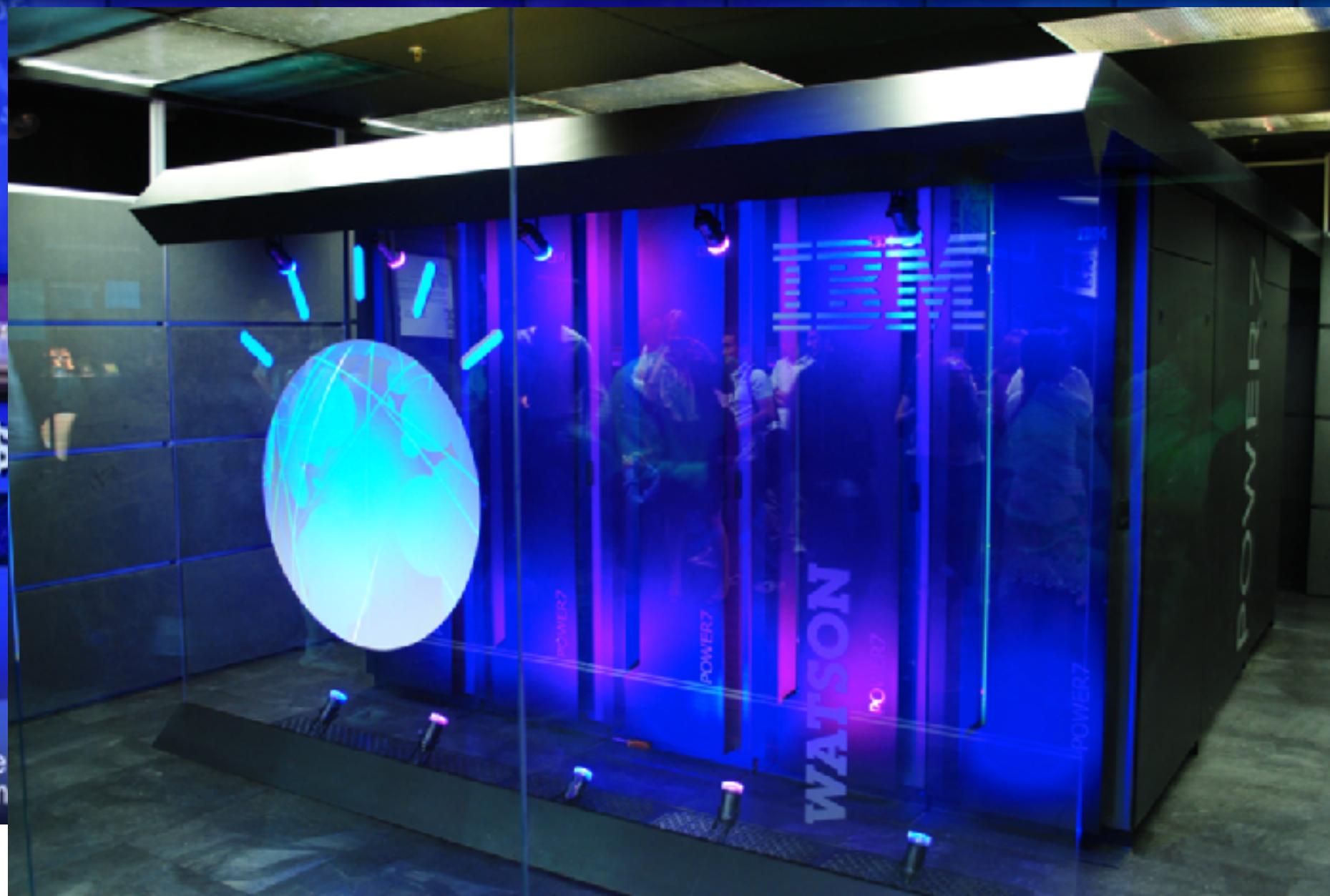
amazon.com/echo





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Watson





You as focus

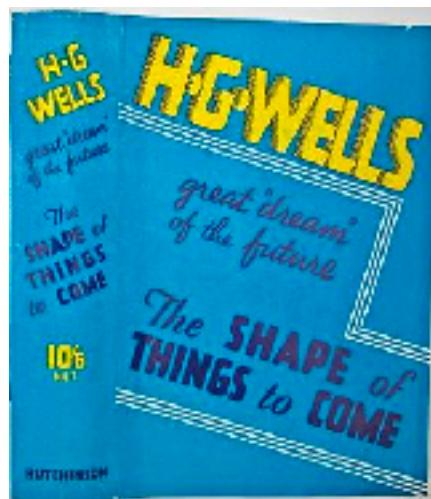
- The digital world is not (only) about developing digital technologies
- It is about **PEOPLE** having those technologies
 - With you
 - Around you
 - 24/7
- It is about those instruments communicating
 - To create a global communication system
 - To provide the **right information** at the right time



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The shape of things to come

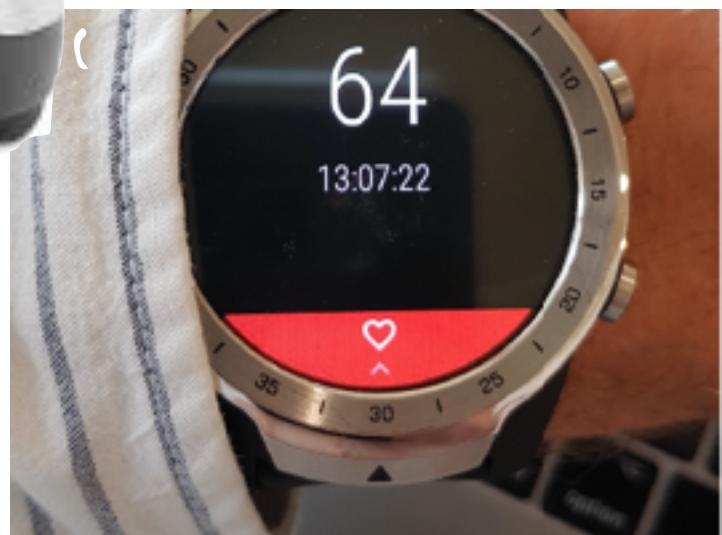
And yes before you ask, these are all web technologies
(surely you were not thinking of studying Web pages in this module?)



https://en.wikipedia.org/wiki/The_Shape_of_Things_to_Come



It is about Health





Self driving cars





It is about the Economy



Canon

£50
CASHBACK
AT PARTICIPATING
RETAILERS*



EOS M3

Discover
the Canon
EOS M3

*T&Cs apply.
See Canon
website for details

The death of the cabbie? Uber wants to buy 500,000 self-driving cars

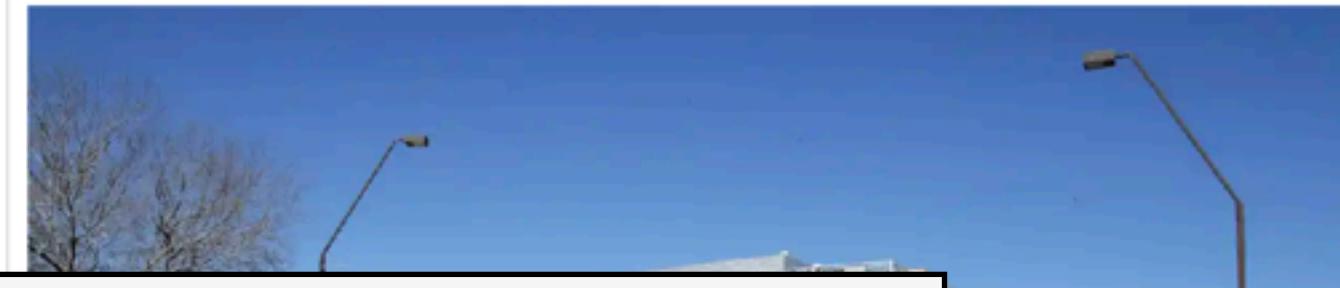
CEO wants to hoover up all of its stock

Christopher Hooton | @christophhooton | Wednesday 8 July 2015 | 0 comments



Self-driving Uber kills Arizona woman in first fatal crash involving pedestrian

Tempe police said car was in autonomous mode at the time of the crash and that the vehicle hit a woman who later died at a hospital



News

Uber cleared to restart self-driving car testing in California

By Allison Matyus February 6, 2020 2:27PM PST

<https://www.theguardian.com/>

<https://www.digitaltrends.com/news/uber-self-driving-testing-california/>

Nah! It will never happen

Robert Thurston, a U.S. steam engine expert, opined in 1894, no less, that horses are not only "self-feeding, self-controlling, self-maintaining and self-reproducing, but they are far more economical in the energy they are able to develop from a given weight of fuel material, than any other existing form of motor."

Car propaganda also portrayed the horse as "untamable beast" and author of "frightful accidents." At the same time motor enthusiasts railed against regulations, speed limits and licensing requirement for new fangled jalopies.

In the end the removal of the horse from urban life and later the farm became a protracted drama that took more than 50 years. It also required the messy adoption of three fossil-fuel technologies.

CNET › Sci-Tech › How self-driving cars will cut accidents 90 percent (Q&A)

How self-driving cars will cut accidents 90 percent (Q&A)

For Road Trip 2015, CNET talks with the University of Michigan's Peter Sweatman about the rapid merging of computers and cars, and the fake city in Ann Arbor where it's being put to the test.



Sci-Tech



by Stephen Shankland

ANN ARBOR, Michigan – Peter Sweatman isn't in charge of the computing revolution that's sweeping the auto industry, but he's at the center of it.

As director of the **University of Michigan's Transportation Research Institute (UMTRI)** in





It is about Education



GlobeNewswire

Global Kids Tablet Market Will Reach USD 36.89 Billion By 2027: Zion Market Research

According to the report, the global kids tablet market was USD 9.54 billion in 2018 and is expected to generate USD 36.89 billion by 2027, at a CAGR of 16.2% between 2019 and 2027.

f [Twitter](#) [LinkedIn](#) [Google+](#) [Pinterest](#) | @ Email | Print Friendly | Share

July 04, 2019 09:01 ET | Source: Zion Market Research





Wii are getting fitter: Retirement home installs computer game to keep residents trim

Last updated at 17:38 13 September 2007



Young-at-heart pensioners bored of bowls and bridge have started videogame competitions against each other at their retirement home.

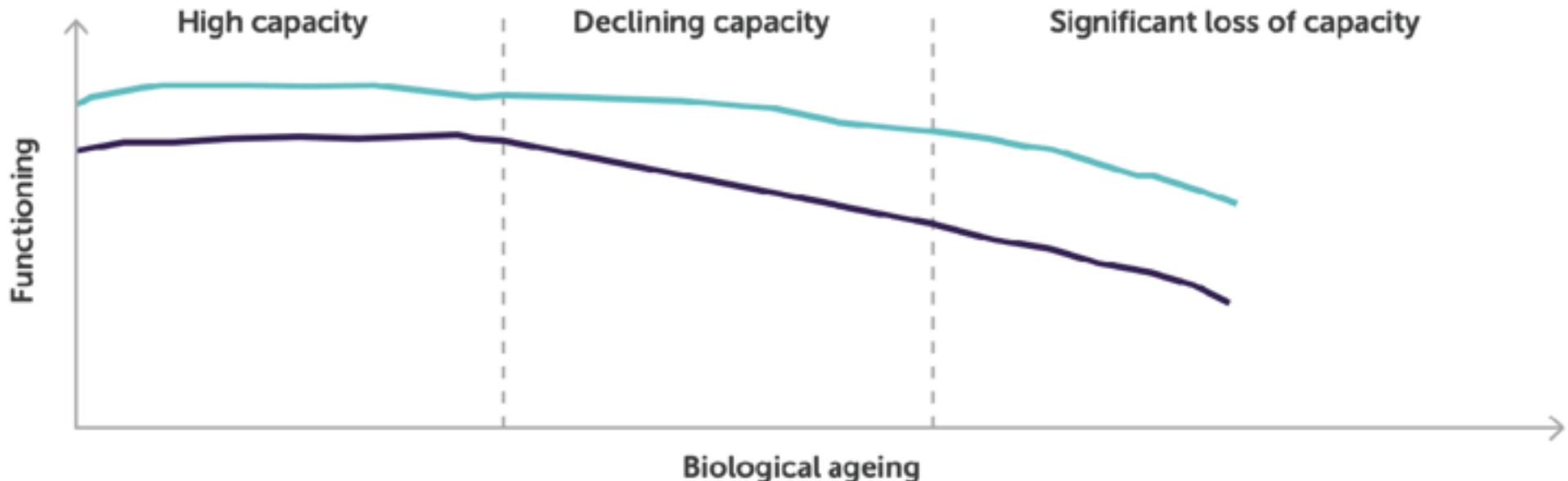
Senior citizens at the Sunrise Home in Birmingham have ditched their zimmerframes because they're hooked on the Nintendo Wii games console.

Pensioners as old as 103 have been joining in the fun on the best-selling console, where gamers use a motion-sensitive controller to mimic sports like tennis, bowling, and boxing.

Residents have been pitting themselves against each other and games have become "competitive" since a Sunrise chef brought the console into the retirement home.

[Scroll down for more...](#)

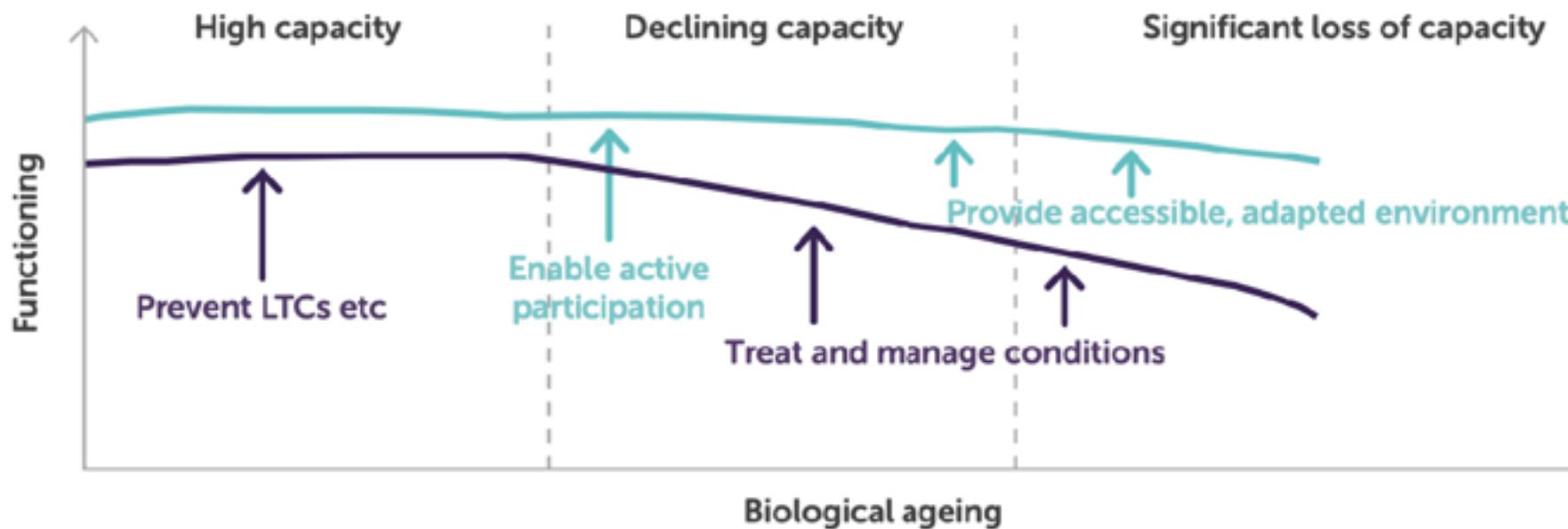




Additional benefits from supportive environments

— Functional ability — Intrinsic capacity

Healthy Ageing



Additional benefits from supportive environments

— Functional ability — Intrinsic capacity

- Although we have experienced a huge increase in life expectancy,
 - a significant proportion of those extra years are spent in poor health.
- In 2018 the Prime Minister announced a mission to
 - “ensure that people can enjoy at least five extra healthy, independent years of life by 2035,
 - while narrowing the gap between the experience of the richest and poorest”



Today, men aged 65 can expect to live another 19 years, but only 10 of those will be spent in good health. Women aged 65 can expect to live another 21 years, but only 11 will be spent in good health (ONS, 2017). In addition, there are significant inequalities in healthy life expectancy, with people in lower socio-economic groups developing long-term conditions at younger ages and spending a larger proportion of their later life in poor health.

There are significant opportunities for innovation across the whole spectrum of prevention, management, mitigation and adaptation. However, the private sector has been slow to respond. Despite people aged 50 and over holding an estimated 77% of the UK's financial wealth in 2014 (Centre for Economics & Business Research, 2015), there is a dearth of products and services in the market that meet the desires and aspirations, as well as the needs, of an older population.

<https://www.ageing-better.org.uk/publications/industrial-strategy-challenge-fund-healthy-ageing-framework>



Need for Healthy Ageing

III-Health Impacts business and society

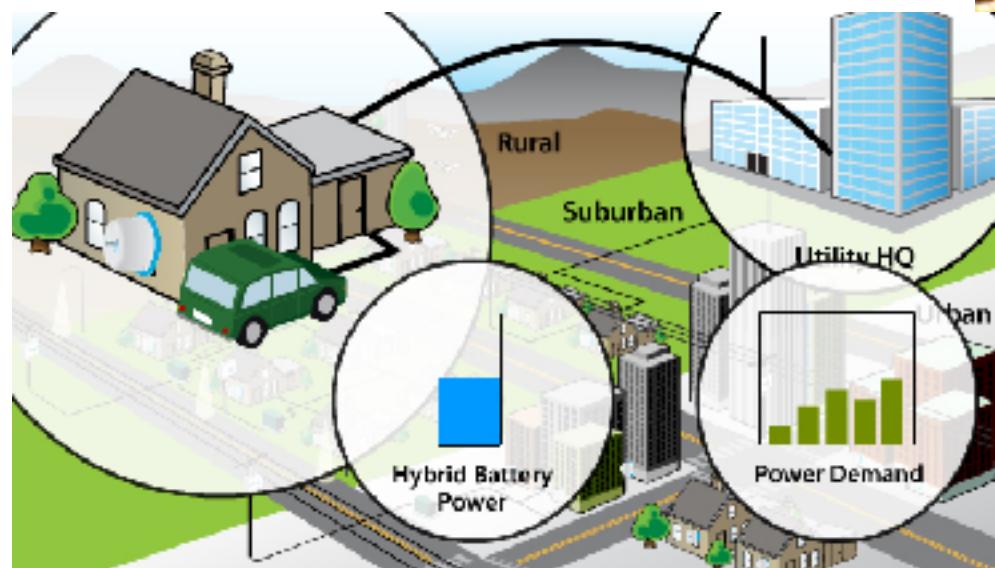
- ▶ Combined costs to the UK economy of worklessness and sickness absence: over £100B annually
 - ▶ £1B annually in Sheffield.
- ▶ Cost of poor mental health to local employers: £420M a year.
- ▶ 30% of the gap in productivity between North and South is attributable to the health gap.
 - ▶ 2/3 Sheffield adults are overweight or obese.
 - ▶ At least 4 in 10 are inactive
 - ▶ This impacts on cancer, CVD, MSK, etc.
- ▶ 10% reduction in long term conditions for working aged people can decrease economic inactivity by 3% (NHSA 2018)

Healthy Ageing in the workforce is key

- ▶ Poor Health is the key contributor to forced early retirement (Marvell & Cox, 2017)
- ▶ An ageing UK population will escalate costs and benefits - (20m over 65s by 2066, ONS)
- ▶ Workplace Health Programmes (WHP) improve productivity but few use them
- ▶ Current solutions are not designed for 50+ users & lack 'sticky' user design & proven ROI
- ▶ Changing behaviour requires integrated solutions at every point of food choice



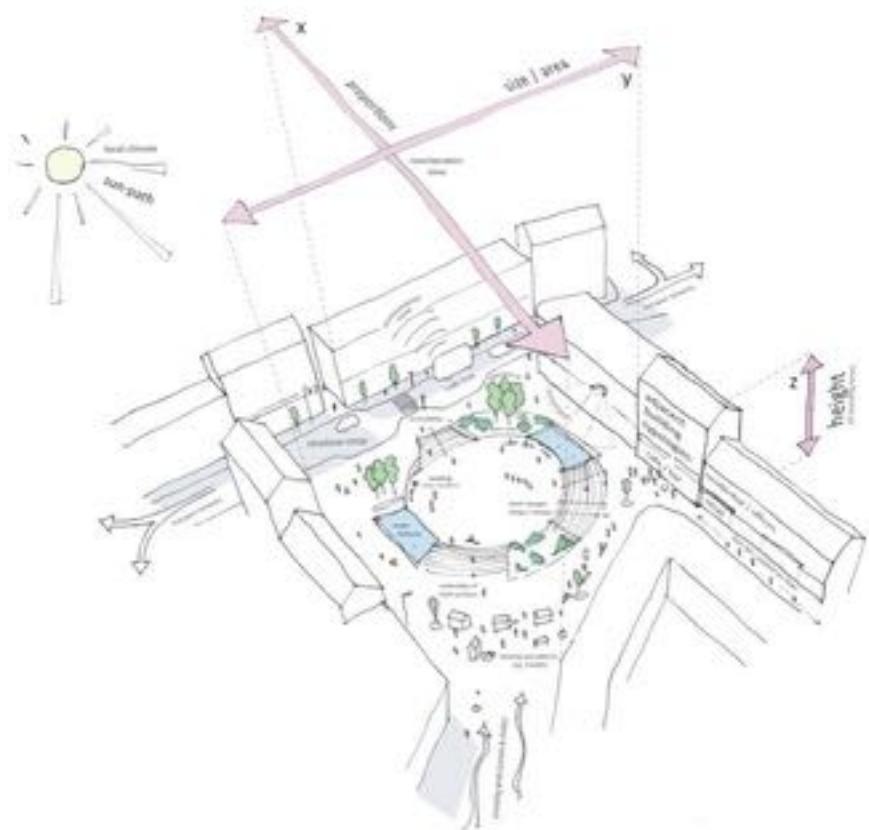
It is about Urban Spaces





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It is about Arts and Humanities



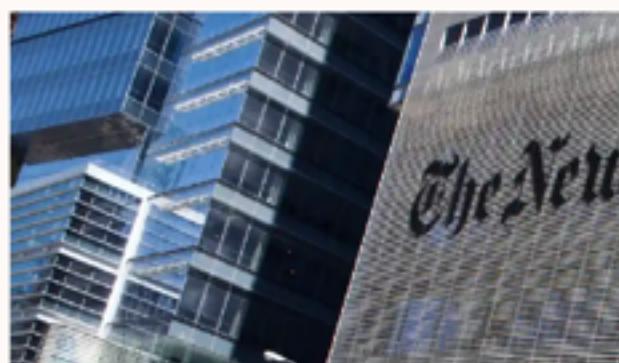
It is about the newsroom

The New York Times's success lays bare
the media's disastrous state

Emily Bell



A handful of legacy institutions thrive as digital startups face
increasing pressures

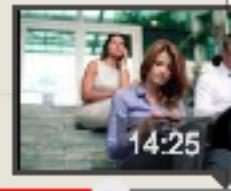




Humans Need Not Apply

<https://www.youtube.com/watch?v=7Pq-S557XQU>

Occupation	Number of Workers
Transportation	3,628,000
Retail salespersons	3,286,000
First line supervisors	3,132,000
Cashiers	3,109,000
Secretaries	3,082,000
Managers, all other	2,898,000
Sales representatives	2,865,000
Registered nurses	2,843,000
Elementary school teachers	2,813,000
Janitors / cleaners	2,186,000





it is about commerce

Who's Gone Bust in Retail?

Who's Gone Bust in UK Retailing in 2019-2020?

Please use the links below to navigate to each section of Who's Gone Bust in retail.

- [Analysis of Major Retail Failures 2008-19](#)
- [Who's Gone Bust in 2019 by Company](#)
- [What's Included and Excluded](#)
- [Archives – Pre-2019](#)



High Street shops need to learn from online retailers if avalanche of store closures is to be reversed, experts warn

LOCATION 11 Sep 2019 by Paul Skeldon



It is about (e)Commerce

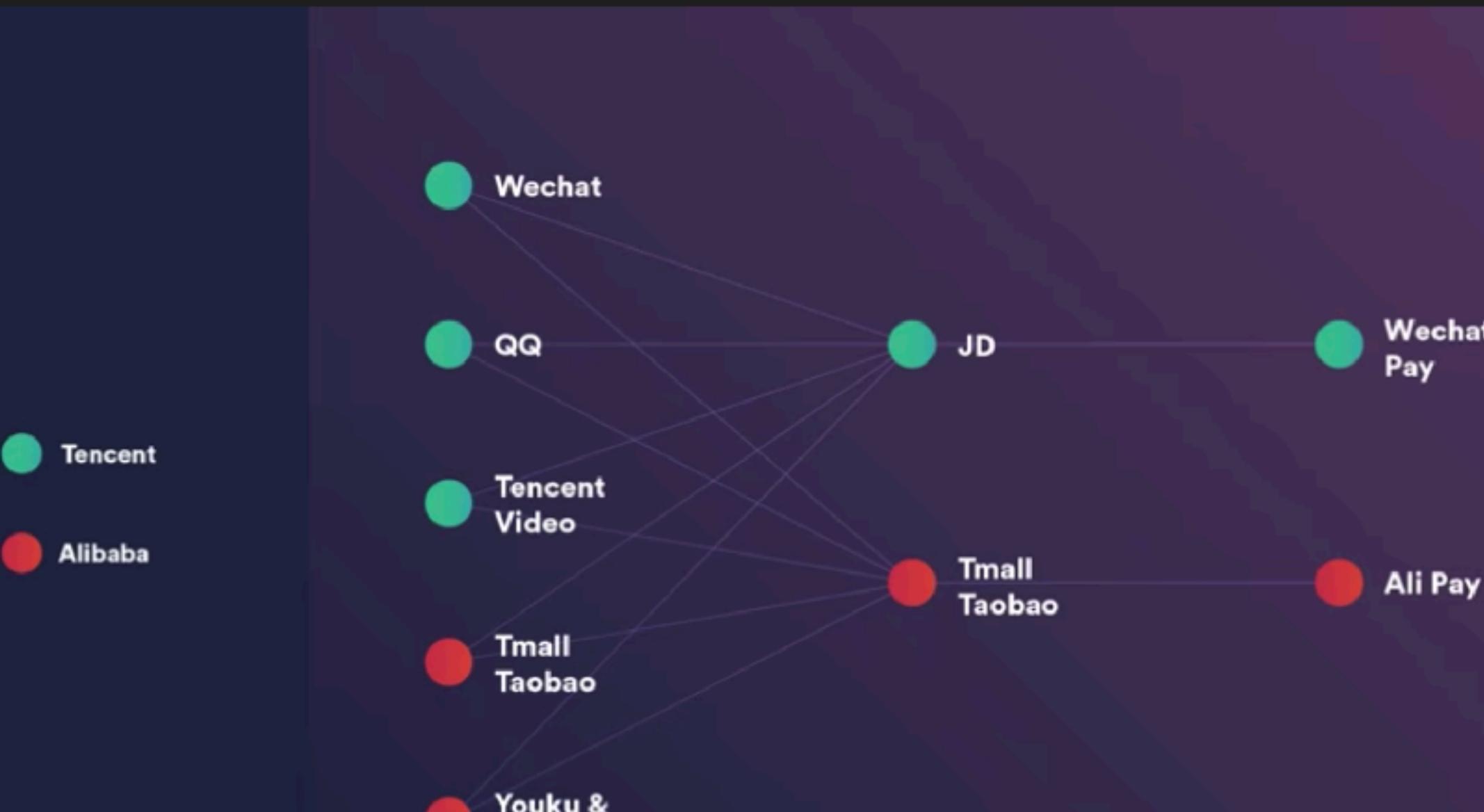
Angela Wang: How China is changing the future of e-commerce



<https://www.youtube.com/watch?v=dOt4NkcmIUg>



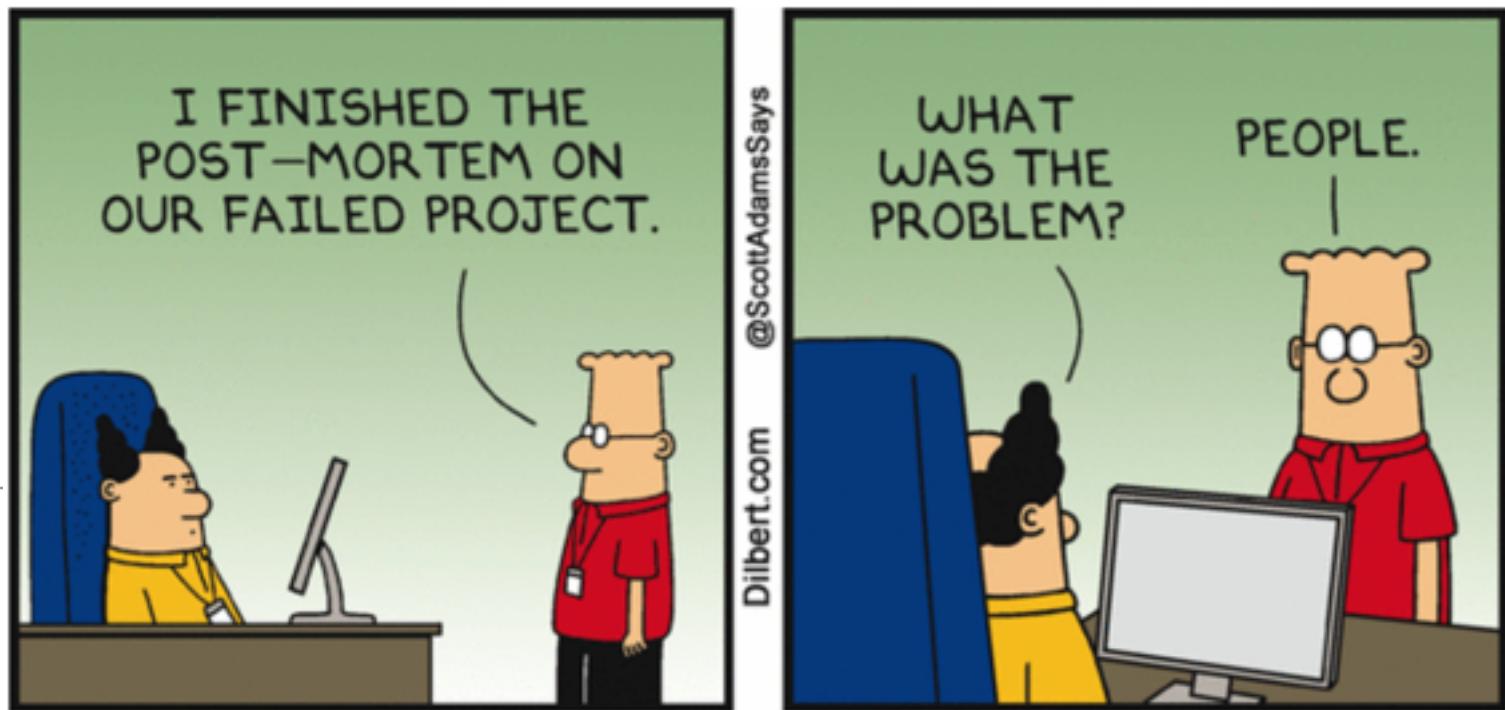
Integrated environment





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Wednesday December 09, 2015 *The Problem Is People*



Pesky Humans in the Loop

Internet connectivity

- Internet usage is widespread in UK and worldwide
- According to the UK Office for National statistics
 - 87.9% of adults have used Internet in the last 3 months
- There is still an age bias
 - Looking at <45 years old the percentage increases to 98.8%
 - >75 only 38.7%
 - But this will gradually disappear

Source: Office for National Statistics

<https://www.ons.gov.uk/businessindustryandtrade/itandinternetindustry/bulletins/internetusers/2016>



<http://www.internetlivestats.com/internet-users/>

Home > Trends and More > Internet Users

Internet Users

4,473,520,578

Internet users in the world

The number of internet users has increased tenfold from 1999 to 2013.

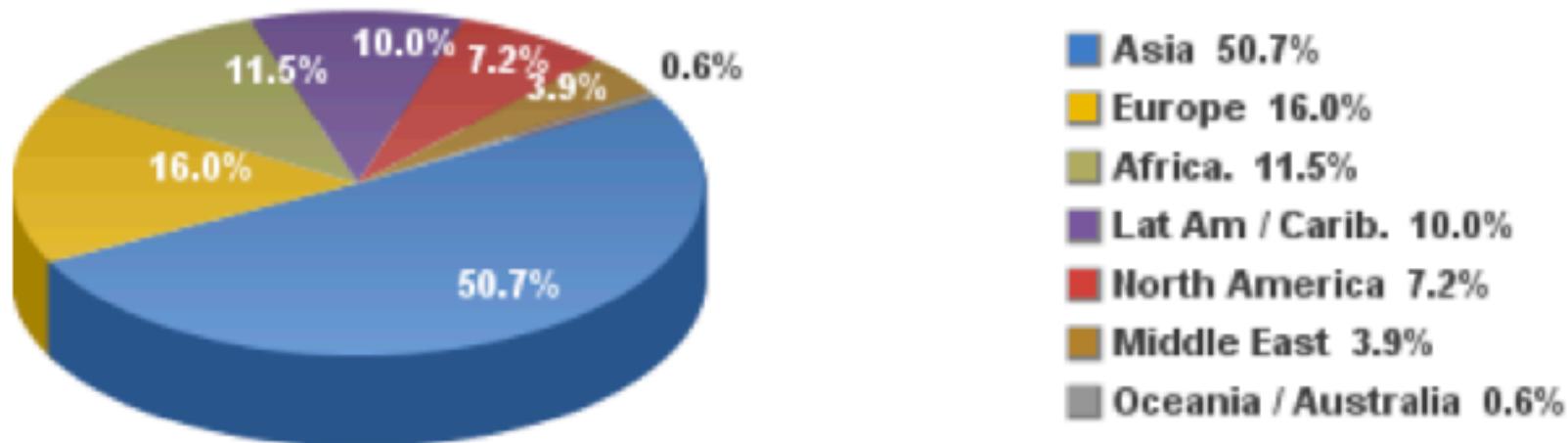
The first billion was reached in 2005.

The second billion in 2010.

The third billion in 2014.

Users by Region

Internet Users Distribution in the World - Mid-Year 2019



Source: Internet World Stats - www.internetworldstats.com/stats.htm

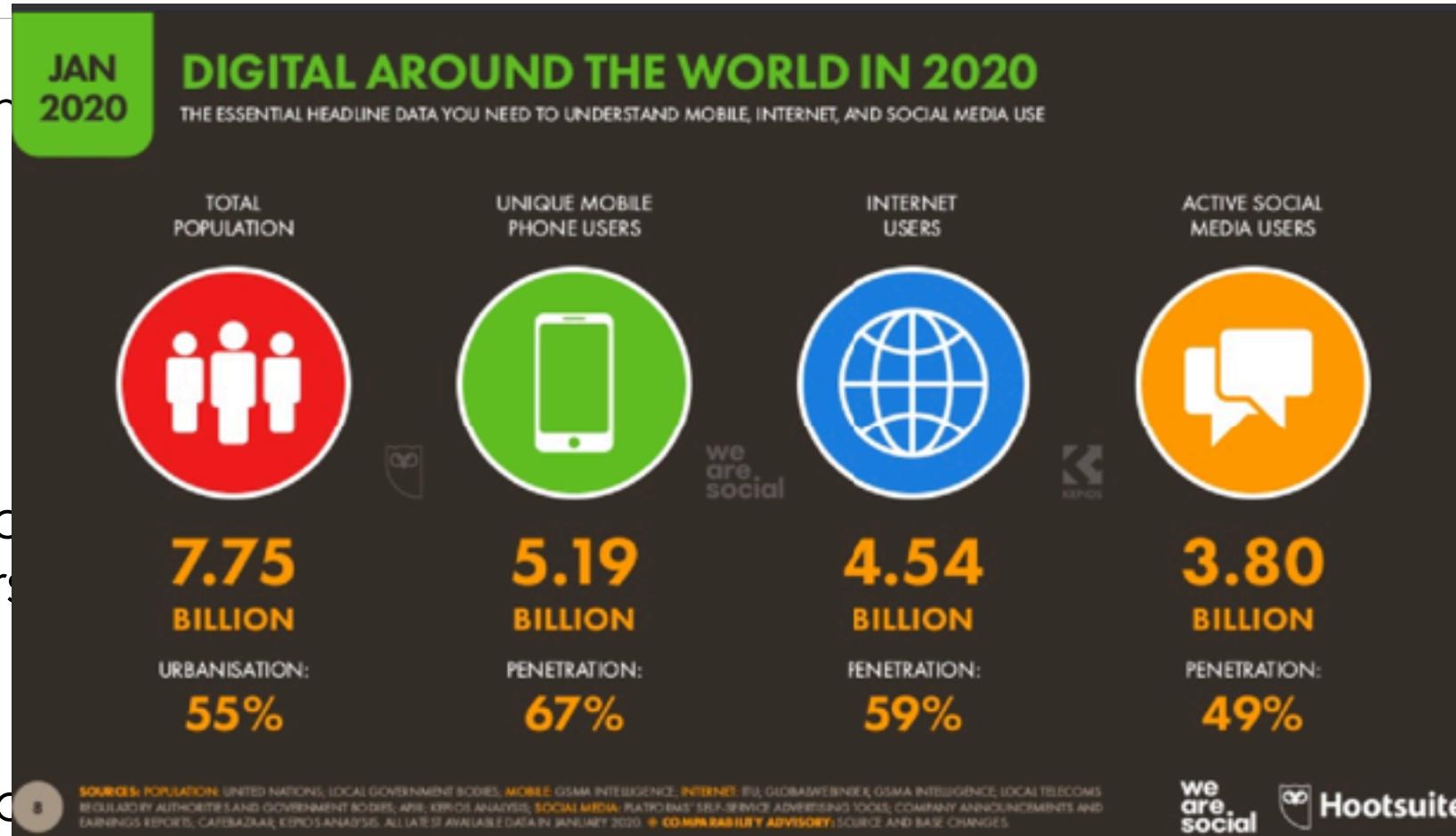
Basis: 4,536,248,808 Internet users in June 30, 2019

Copyright © 2019, Miniwatts Marketing Group

<http://www.internetworldstats.com/stats.htm>

A look at the world

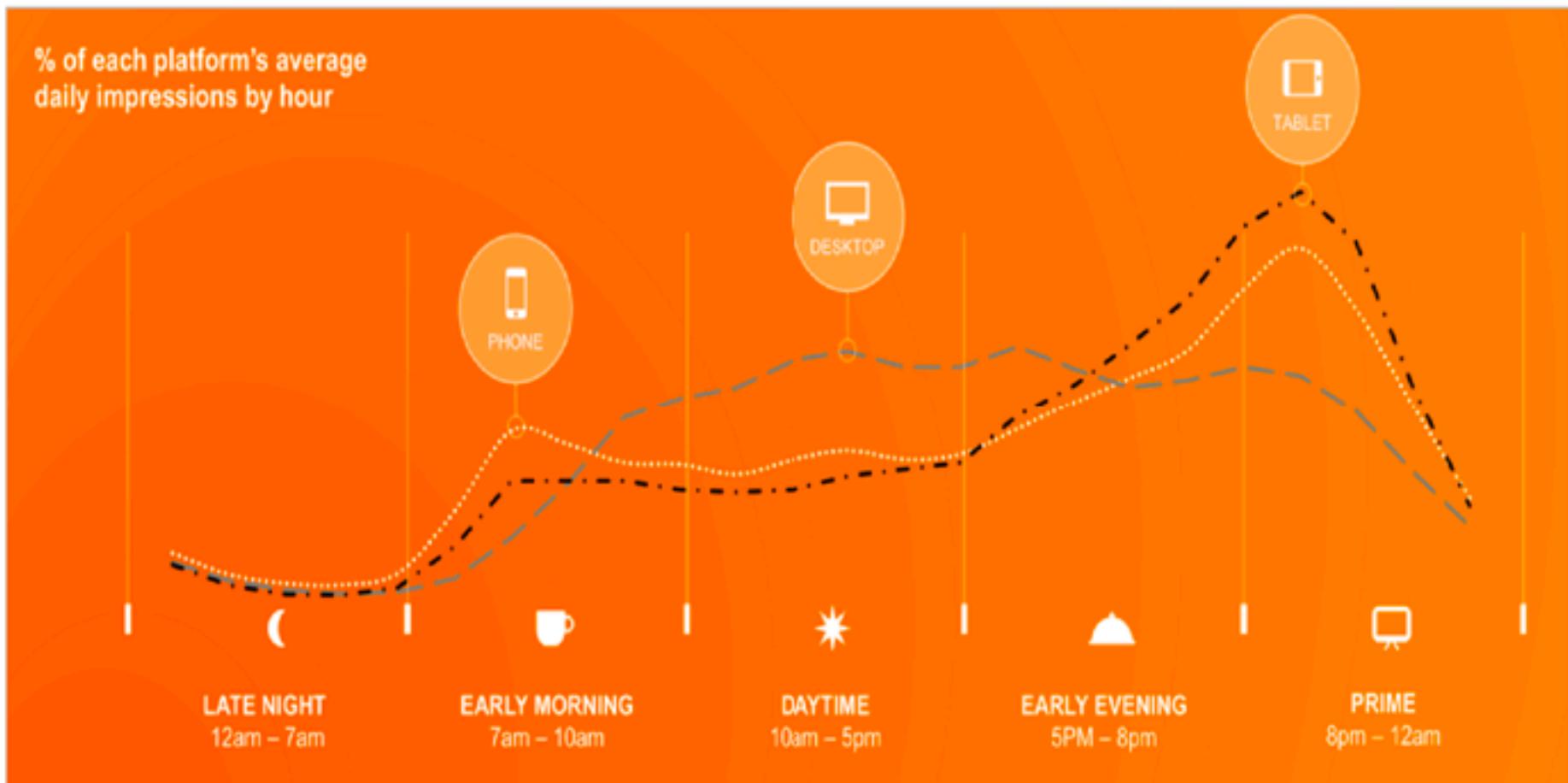
- Mobile devices are becoming the main way for people to be online
- In 2016 mobile internet access surpassed desktop access for the first time
- In 2017 mobile usage has risen by 30% whilst laptops and desktop usage has decreased of 20%



Source: WeAreSocial report <https://wearesocial.com/special-reports/digital-in-2017-global-overview>



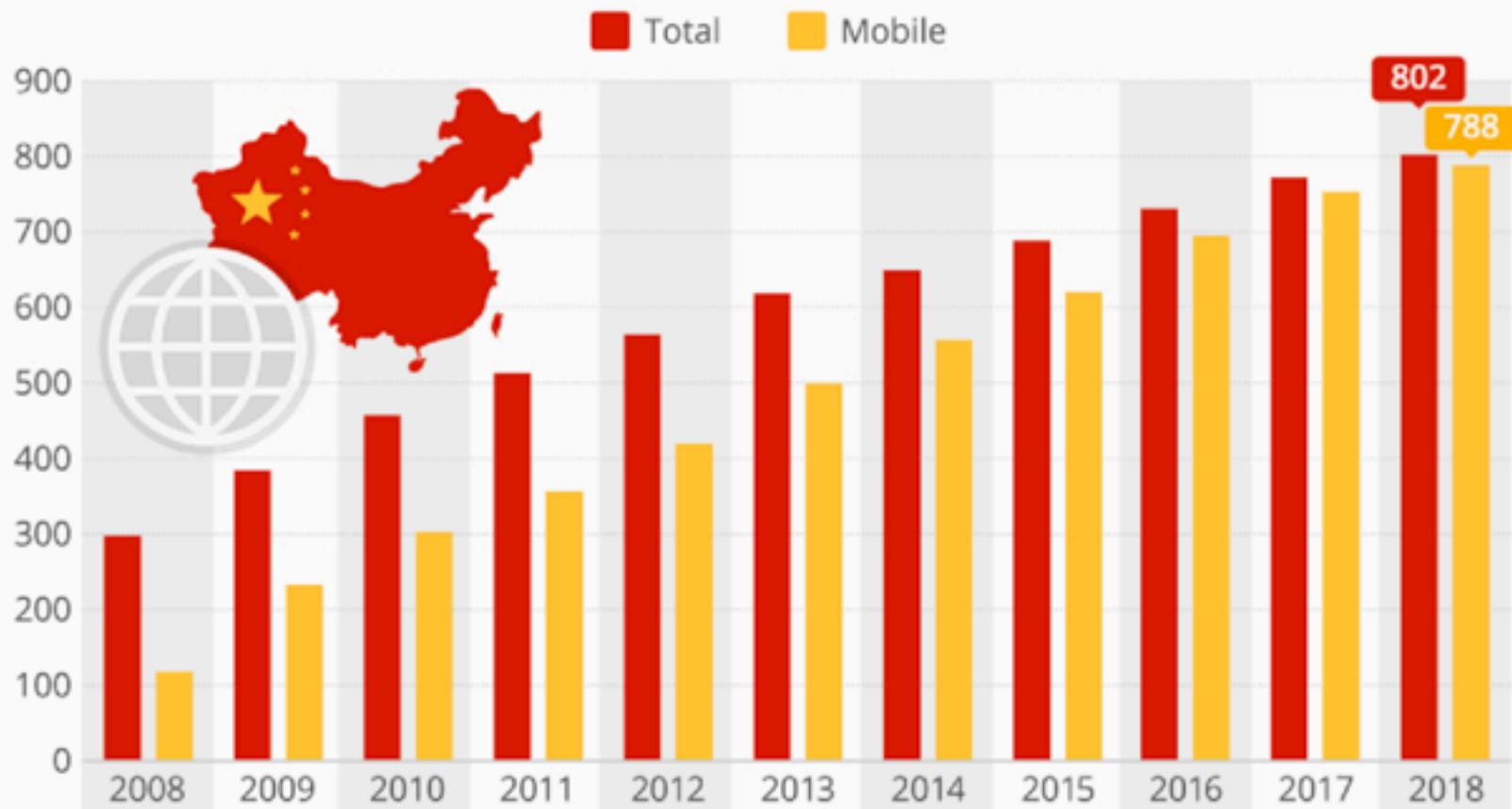
Ubiquitous connection



A worldwide outlook

98% Of Chinese Internet Users Are Mobile

Number of internet users in China (millions)



@StatistaCharts

Source: CNNIC

statista

Mobile first

- Mobile devices are becoming the main way for people to be online

- **Mobile E-Commerce is up and Poised for Further Growth**

Estimated mobile e-commerce sales worldwide



Includes products or services purchased via mobile devices (including tablets) regardless of the method of payment or fulfilment; excludes travel and event tickets

As of January 2018

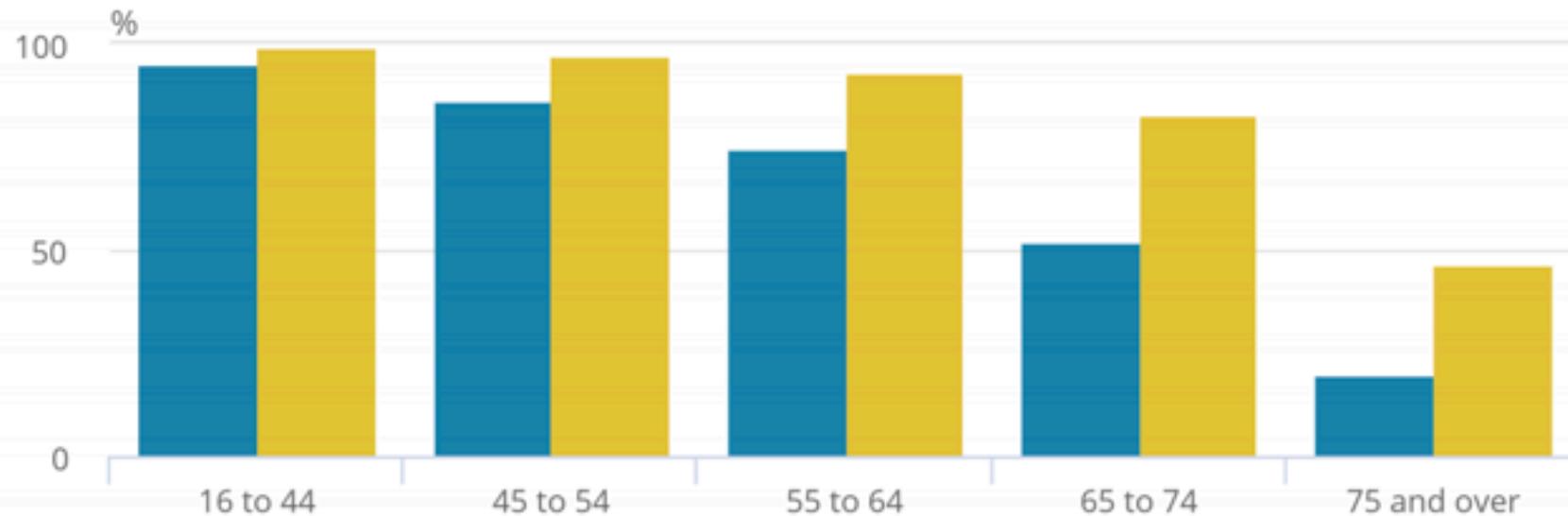
Source: eMarketer

What demographics?

Recent internet users, UK, 2011 and 2019

Figure 1: Since 2011, the 65 to 74 years age group has seen the largest increase in recent internet use

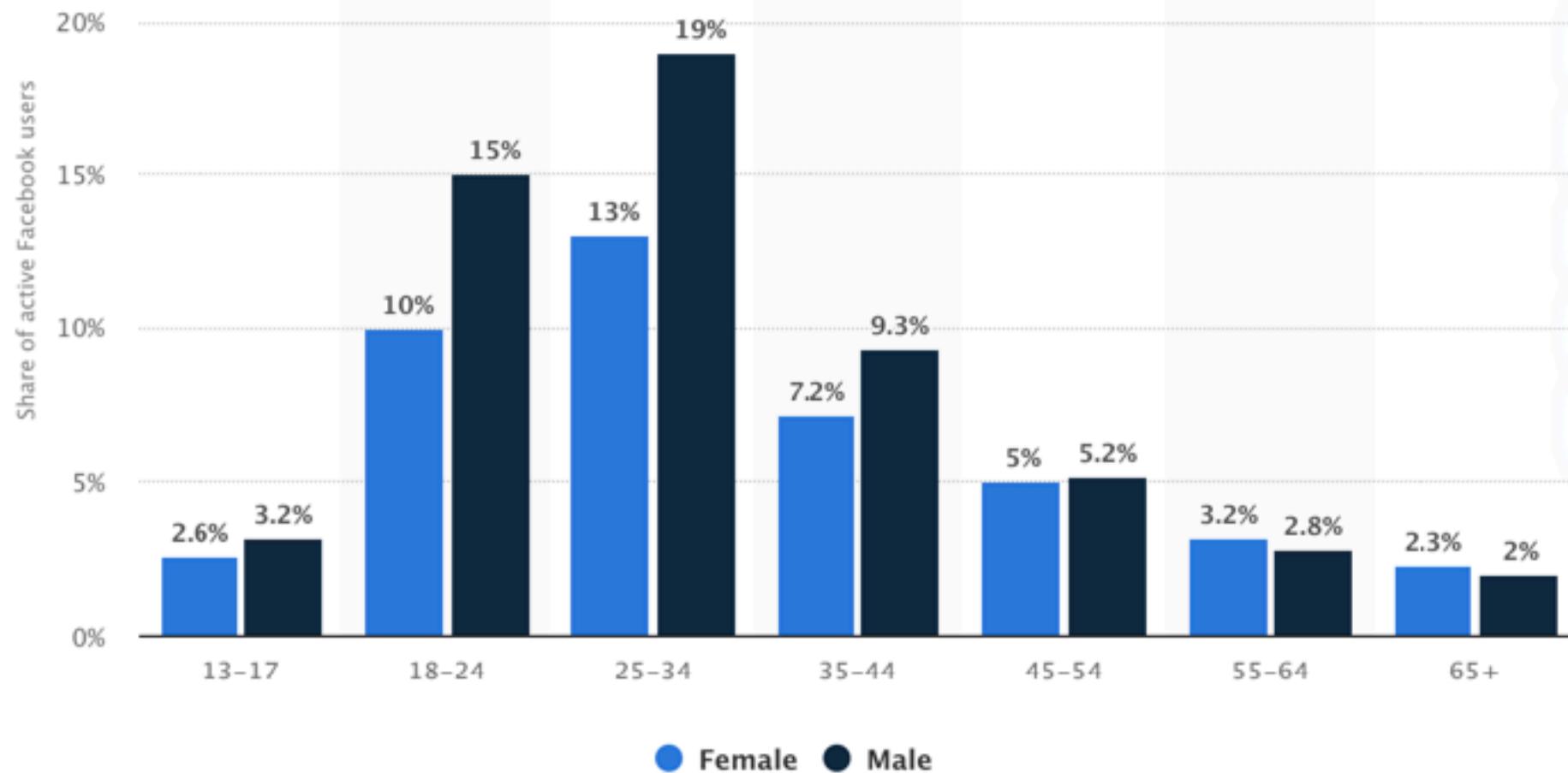
Recent internet users, UK, 2011 and 2019



<file:///Users/fabio/Downloads/Internet%20users,%20UK%202019.pdf>

Who are you designing your technologies for?

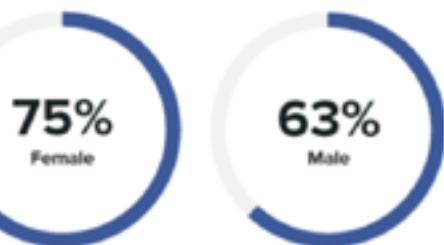
Distribution of Facebook users worldwide as of October 2019, by age and gender





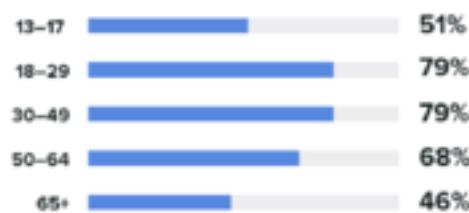
Facebook usage among key demographics

Gender



This study doesn't currently include data on non-binary people.

Age



Instagram usage among key demographics

Gender



This study doesn't currently include data on non-binary people.

Age



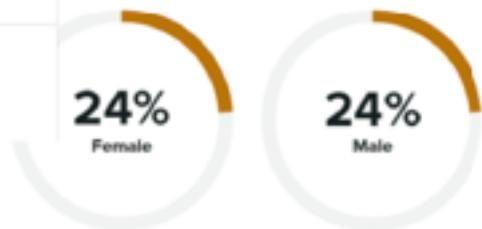
Location

However most of the youngest generations have a token presence on facebook (i.e. they do not use it)



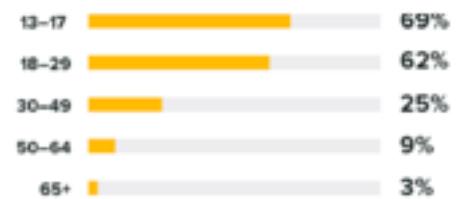
Snapchat usage among key demographics

Gender



This study doesn't currently include data on non-binary people.

Age



Broadband Penetration

Country or area	Fixed-broadband subscriptions				Mobile-cellular subscriptions			
	Number ^[5]	Rank	Subscriptions per 100 Individuals ^[6]	Rank	Number ^[7]	Rank	Subscriptions per 100 Individuals ^[8]	Rank
-China	378,540,000	1	26.86	43	1,474,097,000	1	104.58	105
-United States	109,838,000	2	33.85	24	395,881,000	4	122.01	65
-Japan	40,390,640	3	31.68	28	170,128,499	7	133.45	36
-Germany	33,217,000	4	40.45	10	106,000,000	15	129.09	45
-Russian Federation	30,872,788	5	21.44	54	227,341,873	6	157.89	12
-Brazil	28,670,016	6	13.70	74	236,488,548	5	113.00	90
-France	28,429,000	7	43.75	5	69,017,000	22	106.21	99
-United Kingdom	26,015,818	8	39.31	13	79,173,658	20	119.63	74
-South Korea	21,195,918	9	41.58	9	63,658,688	23	124.86	55
-India	17,856,024	10	1.33	126	1,168,902,277	2	87.28	128
-Mexico	17,131,820	11	13.26	75	114,326,842	14	88.51	126
-Italy	16,586,376	12	27.94	39				
-Spain	14,473,888	13	31.22	30				
-Canada	13,922,504	14	38.01	15				
-Turkey	11,924,905	15	14.77	70				
-Viet Nam	11,269,936	16	11.80	81				
-Iran	10,057,769	17	12.39	79				
-Thailand	8,208,000	18	11.89	80				

South Korea is still number one – has fastest Internet speed worldwide

Posted in [Main](#) on January 31st, 2012 by Pingdom

Want to be able to download a DVD worth of data in about 38 minutes? It may not seem very impressive, but that's with the average Internet speed in South Korea, according to the latest "[State of the Internet](#)" report by Akamai.

Covering Q3 2011, the report again puts South Korea at the top of the list of countries with the fastest Internet connections. The country scored an average connection speed of 16.7 Mbps in Q3 2011.



[Read more](#)



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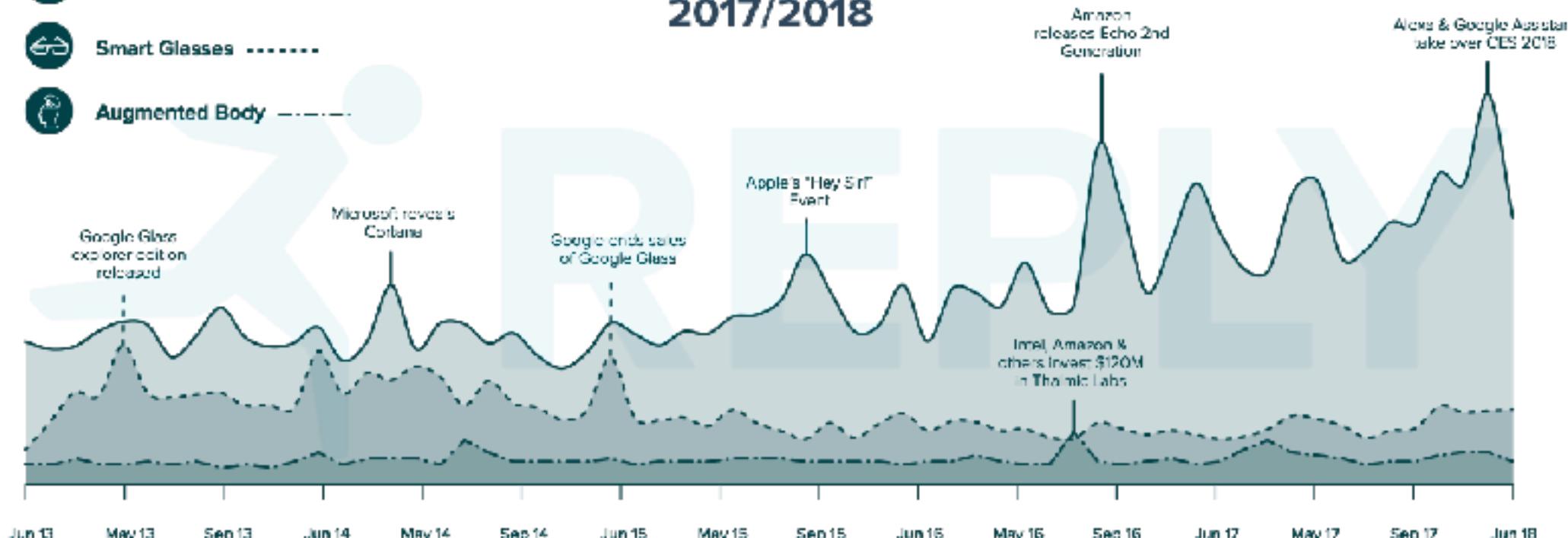
The Devices in the Loop





- Digital Assistants ———
- Smart Glasses ······
- Augmented Body ······

TOP 3 TRENDS 2017/2018



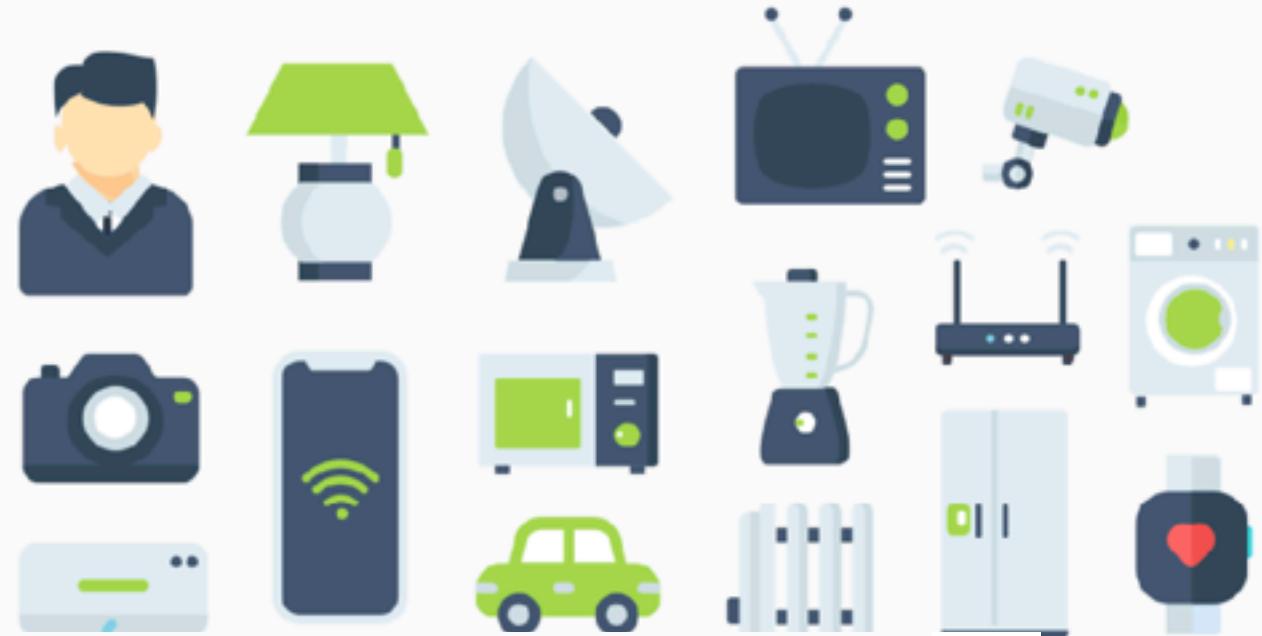
These are booming or upcoming trends, meaning the number of articles in various media dealing with these phenomena has drastically increased over the past 12 months.

<https://www.reply.com/en/topics/internet-of-things/the-evolution-of-the-consumer-internet-of-things>



15

DEVICES
PER PERSON



... which means 15 connected devices per person.

<https://www.reply.com/en/topics/internet-of-things/the-evolution-of-the-consumer-internet-of-things>

...Amazon Alexa Voice Platform Goal = Faster / Easier Shopping on Amazon

*Leveraging proliferation of microphones throughout house to reduce friction for making purchases...
3x faster to shop using microphone than to navigate menus in mobile apps'...*

Amazon Echo



**Amazon
Echo Dot**



**Amazon
Echo Tap**



Amazon Prime
(~44MM USA Subscribers)



Evolution of Shopping with Echo

1. Shopping Lists (2014)
2. Reorder past purchases by voice (2015)
3. Order new items – assuming you are fine with Amazon selecting exact item (2015)



IoT space



Scannable

- Another way in into the IoT



-) Access control
-) Physical Access
-) Cashless payments
-) Targeted marketing
-) Loyalty programs
-) Location-based services
-) Mobile payments
-) In-store marketing

Some People Laugh at Wearables



Some People Laughed at PC & Internet

Why should everything be connected?

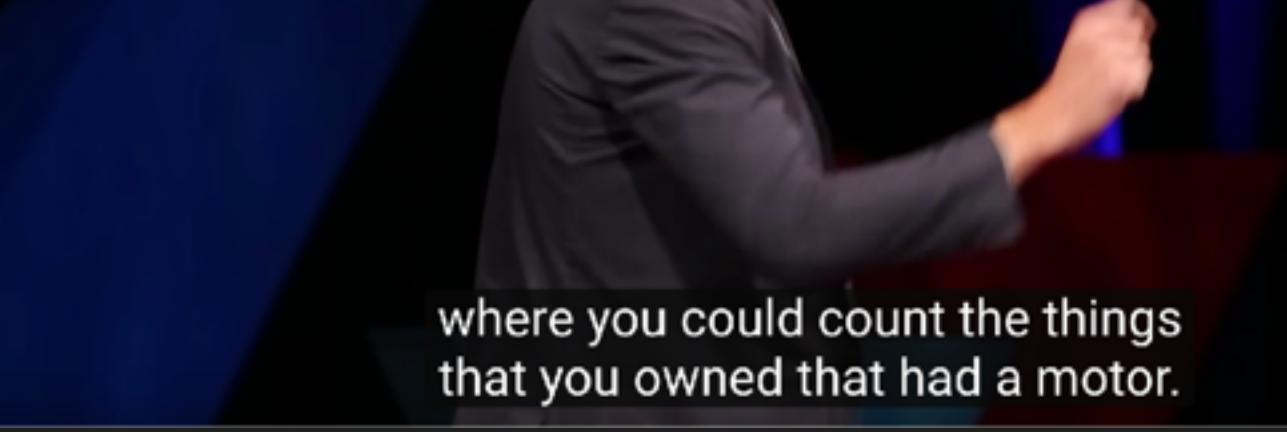


Technology will change retail shopping - but it's not what you think | Taylor Romero | TEDxMileHigh

<https://www.youtube.com/watch?v=TuD3IerTOms>



1960s



where you could count the things
that you owned that had a motor.

A photograph of a man with a beard and short hair, wearing a dark blazer over a light shirt, standing on a stage and speaking into a microphone. He is gesturing with his right hand. The background is dark with some blue lighting.

2020



can count the things that you own
that connect to the Internet

A photograph of the same man from the previous image, now seated and looking slightly to his left. He is wearing a dark blazer over a light shirt. A caption box is overlaid at the bottom of the frame with the text: "can count the things that you own that connect to the Internet".



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Internet Connected Buttons



A button for a barber shop?





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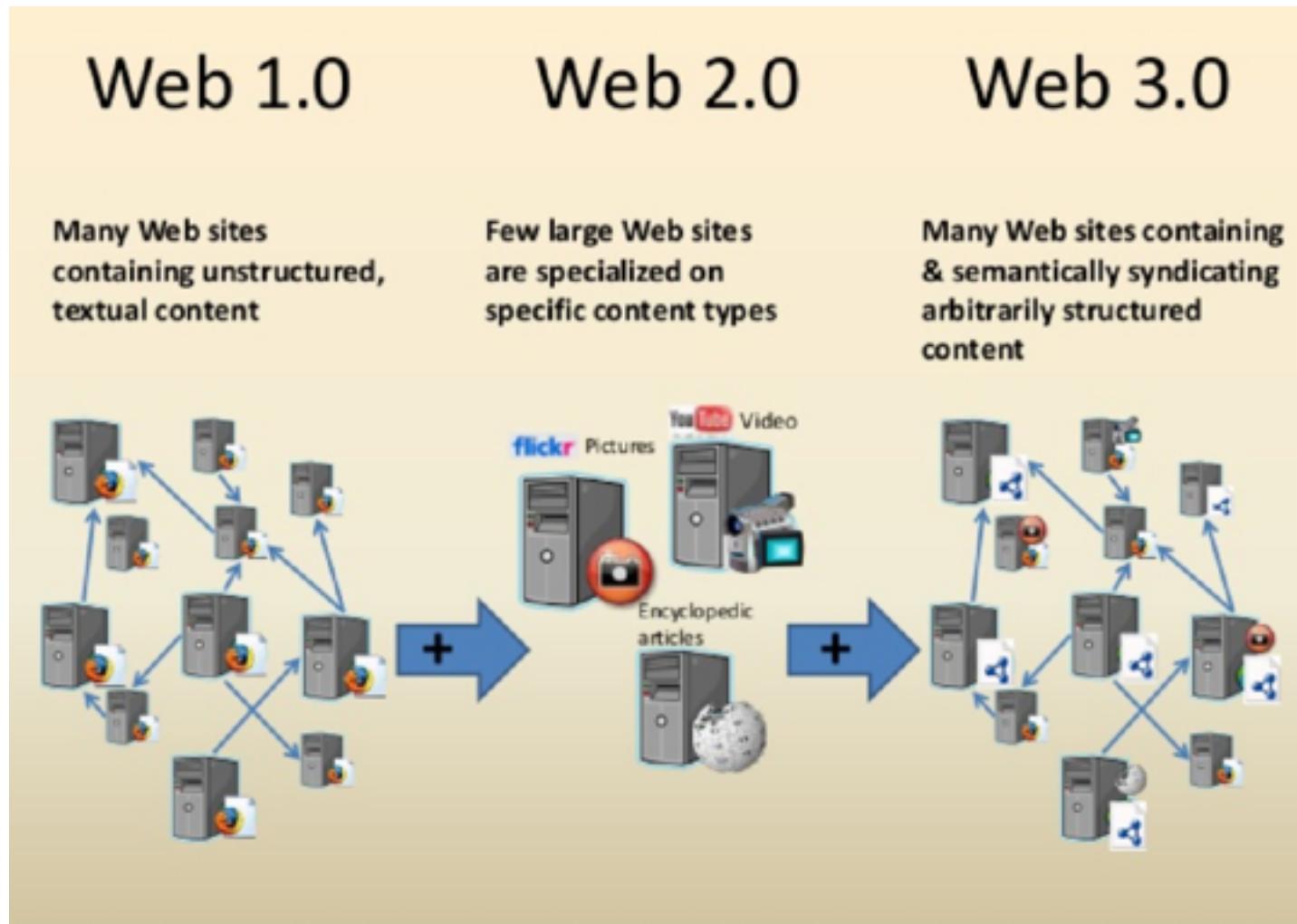
The Data

What is the web of data?

- Our interaction with the web has changed
 - People look for answers not for web sites
 - Websites/Apps often collect and reuse pieces of information from other sources



The evolution of the web



https://www.slideshare.net/soeren1611/introduction-to-the-data-web-dbpedia-and-the-lifecycle-of-linked-data?qid=2a793203-a1bf-4145-a6a4-975e2fce88b&v=&b=&from_search=4

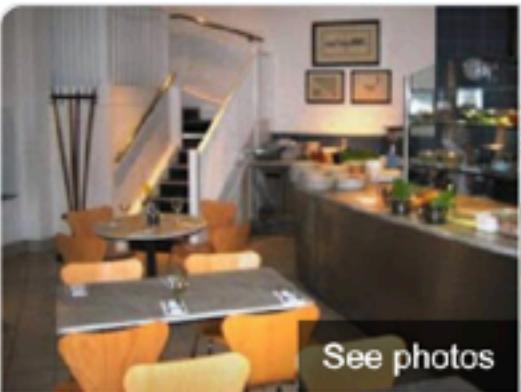


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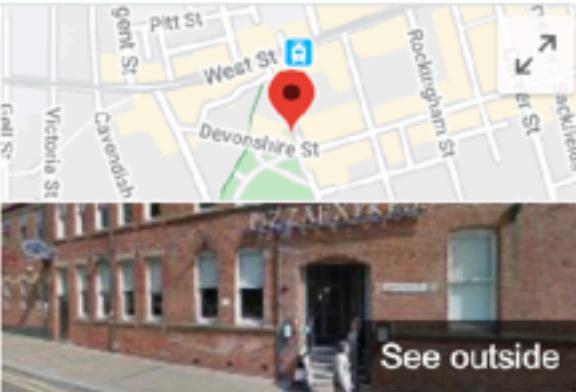




albert einstein



See photos



See outside

Pizza Express

[Website](#)

[Directions](#)

[Save](#)

4.1 ★★★★☆ 181 Google reviews

££ · Pizza restaurant

Chain pizzeria where chefs in striped t-shirts toss handmade pizzas in a relaxed space.

1 min walk from [Forum Kitchen + Bar](#)

Address: 124 Devonshire St, Sheffield City Centre, Sheffield S1 7SF

ools



[More images](#)

Albert Einstein

Theoretical physicist

Albert Einstein was a German-born theoretical physicist who developed the theory of relativity, one of the two pillars of modern physics. His work is also known for its influence on the philosophy of science. [Wikipedia](#)

Born: 14 March 1879, Ulm, Germany

Died: 18 April 1955, Princeton Medical Center, New Jersey, United States



pizza express division

Schema.org

<http://www.slideshare.net/anjeve/wikidata>

Wikidata

The free knowledge base that anyone can edit



Anja Jentzsch - @anjeve

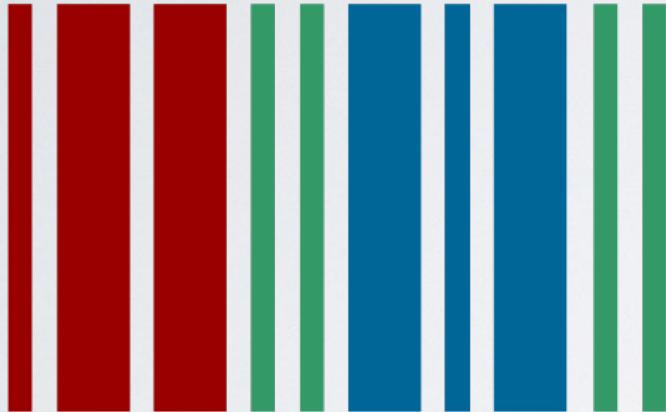
Hasso Plattner Institute, Potsdam, Germany



Open Data Lecture, HTW Berlin

2015/01/12

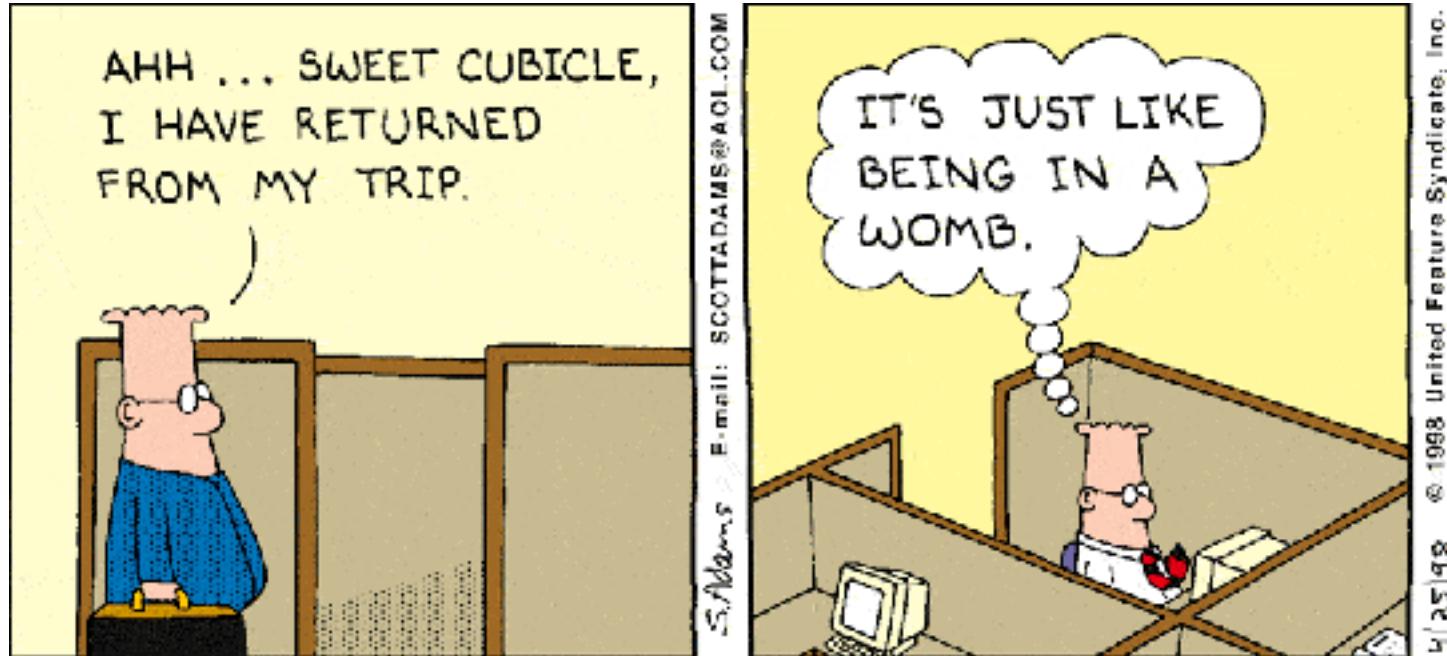
Imagine a world in which every
single human being can freely
share in the sum of all
knowledge.



Wikidata to the rescue!



What about you?



<http://forums.sailinganarchy.com/index.php?/topic/195334-dilbert/>

If you think your job is to be a developer in your cubicle,
Think again



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About this Module



Logistics

11:00

COM3504 LECT SB:SB-107

/115 AC1FC [23-30,34,37](#)

COM3504 COMPU NC:NC_PC

/115 AC1FC [36](#)

12:00

COM364/01 TUT PC:PC-B51

/ AC1XGS [23-30,34,36-37](#)

COM3504 LECT SB:SB-107 AC1FC [23-](#)

[30,34,37](#)

13:00

COM3504 COMPU NC:NC_PC

/115 AC1FC [24-30,34](#)



Enigma machine



The Enigma machine is an encryption device developed and used in the early- to mid-20th century to protect commercial, diplomatic and military communication. It was employed extensively by Nazi Germany during World War II, in all branches of the German military.

[Wikipedia](#)

<http://www.dcs.shef.ac.uk/intranet/teaching/public/timetables/sem2lev3.html>

- Office hours: Friday 15.00: by **appointment only!!!!**

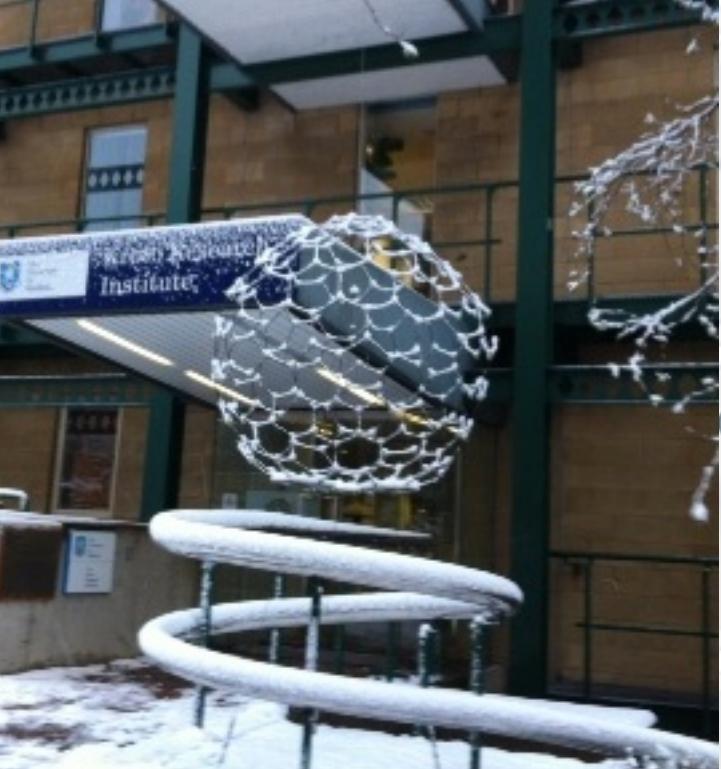
Lectures

Friday	11:00	13:00	<u>23-30, 34, 37</u>	SB-107	Pool Lecture Theatre 1 (211)	Sir Henry Stephenson Building	Ci				

Lab Classes

Friday	13:00	14:00	<u>24-30, 34</u>	NC_PC	North Campus Modular Village PC room (180)	North Campus					

Where to find me



We are here

Kroto Research Institute

NC Computer Room

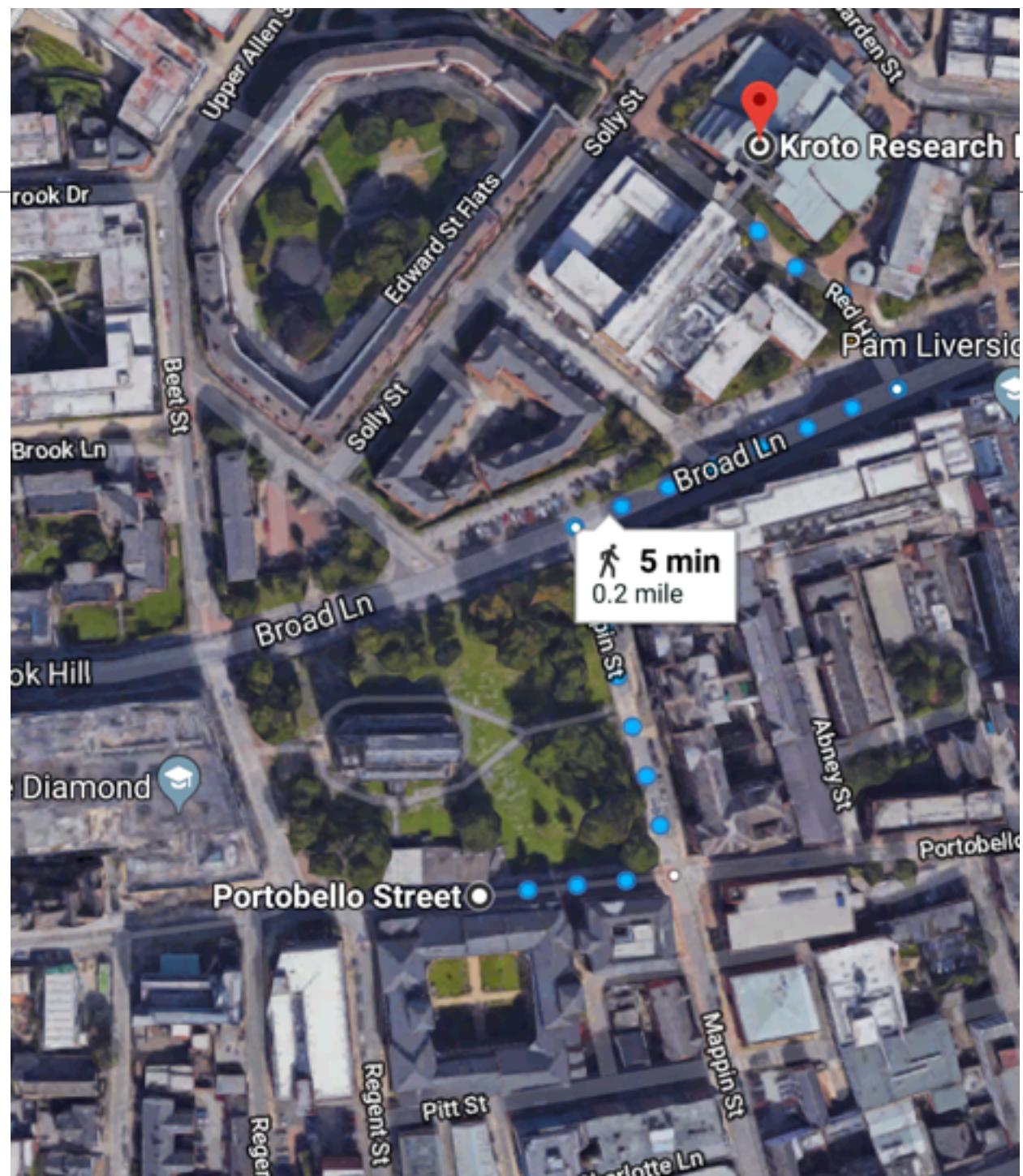
Scary porters

 5 min
0.2 mile

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Reading Material

- Lecture notes
- Lots of Web documents to read
 - This is module on Intelligent Web!
- Any book about HTML, Javascript, MySQL and PHP will do

- Join the Facebook group:
 - <https://www.facebook.com/groups/652598341469951/>
 - Where you and I can post interesting articles, news etc.
 - Not an official module resource, though (use MOLE!).
 - It is also to keep in touch after the end of the module
 - in case there are relevant news - e.g. job opportunities I become aware of

Assessment

- One project will constitute 100% of the assessment
 - Released at end of Week 4
 - Two submissions:
 - First part of assignment (formative feedback - not required)
 - Deadline: week 7 (23.03)
 - Submission via Mole
 - 1:1 feedback end of Week 8 (no lecture on that week)
 - Informal marks
 - Final submission (100% of marks)
 - The whole assignment (including the revised part 1)
 - Deadline: Friday of week 11 at 23:59:59

Groups

- Assignment is to be done in groups
 - Groups must be composed of a **3 people**
 - No groups of <3 or >3 are allowed **for any reason**
- YOU are free to CHOOSE YOUR GROUP!
 - However
 - I may decide to step in and pair people together
 - if they are unable to find a suitable group
 - I will add a third member to a group of two

I appreciate that some of you asked me about this over the past weeks and I gave a different answer. Unfortunately this is needed given the size of the class!

Assessment

- FAQs (ctd):
 - FAQ 4: can we have an extension?
 - Answer: no
 - FAQ 5: but my cat was ill?
 - Answer: poor cat
 - FAQ 6: but I have proven medical reasons
 - Answer: yes you can
 - FAQ 7: can we disband the group if it does not work?
 - Answer: yes but you will not be allowed to join another group
- Please always contact me well in advance for any problem or clarification

Groups, oh no!

- Every year at least 3 groups have serious problems during the first assignment
 - I have heard this several times:
 - Person 1:
 - My partner
 - did not contribute at all
 - Was never present when we decided to meet
 - Person 2:
 - I was busy, my cat was ill, I had a dentist appointment, I actually attended once
 - Can you tell me where the problem is?

Groups? Oh no!

- Groups of 3:
 - 2 member says:
 - Our partner did not contribute at all
 - He is always silent and sometimes he does not even come to the meetings
 - The other member says:
 - My partners work very fast, talk a lot among themselves and never let me understand what they do. They are probably better than I am
 - Can you tell me where the problem is?

Groups? Oh No!

- One member says:
 - I have worked for many years as software developer in companies, I know how to develop a project. I will set out a plan for everybody by using a well established strategy that I have devised myself based on best practices
- The other members say nothing but in a while stop coming to the meetings. They are simply lazy and not committed to their study
- The group splits (yes you can split a group)
- Who do you think got the best marks?

Groups? Yes, groups

- Select your partner(s) with care
 - Ask them about their marks
 - Do it!!!
 - Choose someone with marks similar to yours
 - Do not try to be with better people to try to scrape better marks
 - it does not work!
 - Do not chose someone just because you fancy them
 - Find a boy-/girl-friend in another way
- Be very careful when you work in a group
 - Listen to any sign of distress or disinterest
 - Talk to your partner frankly and honestly
 - Discuss with me any doubt
 - That is not being nasty to your partner!!

What if I cannot find a group?

- Start looking for a group NOW!!!
- Ask around
- Socialise
- Fill the appropriate form
- Talk to me asap
 - We will have a dating session for people who are without group
- IF ALL FAILS you may be required to do the assignment on your own
 - Please make sure that this does not happen



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Start forming your group TODAY!!

Every year at least one person is left out, ends up doing the assignment by themselves (and generally fails)

Every year at least two groups are totally dysfunctional because they did not choose with care/were late/were just checking if partners were good looking

Register your group NOW!

- Every year 3 or 4 people cannot find a reasonable group because they left this to too late
- One person always ends up doing it on their own
- THIRD YEARS cannot group with MSc students

<https://docs.google.com/spreadsheet/ccc?key=0ApRYU-DxjhLDdGVMb1IDd083MVJnSC13OGkwdkZDd2c&usp=sharing>

A	B	C	D	E
First ASSIGNMENT				
PLEASE NOTE: MASTER'S STUDENTS CANNOT GROUP WITH 3RD YEARS!				
1 Group Name	2 Member 1	3 Member 2	4 Member3	5 contact email for the group
6	7	8	9	0

Looking for partners?

- No worries. Register now
- And contact the available people immediately!!

list your name below if you are looking for partners

PLEASE NOTE: MASTER'S STUDENTS CANNOT GROUP WITH 3RD YEARS!

	Name	Course	email address
21			
22			
23			
24			
25			
26			
27			
28			
29			

How to pass

- Come to the lectures
 - If you do not understand, tell me
 - Feel free to ask questions at any time
- Come to the lab classes and do all the exercises immediately
 - Most lab classes give you a piece **to use in the assignment**
 - Complete the assignment every week

Some past experience

I get 5 big assignments at the same time now in the second semester. It's really too difficult to handle all assignments well for me because the time seems too limited

I feel that two hours of lectures were not enough to cover the subject in the detail I would of liked.
Please increase it to 3 - 4

Assignment too intensive

- Arguably the best module I have taken throughout my time at uni.
- That said,
 - The workload for the assignment was grossly underestimated.
 - The learning curve for NodeJS is very steep, and the "30hours" work per person estimate is miles off.
 - I'm in a team of three people, all of us have comfortably performed to a first class standard throughout our entire degree
 - and we easily spent around 60+ hours each on the initial stage of the assignment.

The goals of the assessment is clear but overkill and requires as much work as a dissertation coding

Well, don't do that!

- The assignment is largely open ended.
- Please keep it in proportion to the credit value
- Do not try to build a system with infinite features
- Just make an excellent work by keeping to the letter of the assignment
(That said, some of last year's solutions were fantastic!)

Always ASK!!!

- One year it became clear that the Chinese group had issues in understanding the second assignment
 - I organised a session in Chinese
 - To explain the assignment
 - To allow for questions in a familiar language
- I cannot promise this will be possible this year or for other languages
 - But if you feel that there is something that could help, try and ask
 - Do not think it is impossible
 - I do not speak Chinese but was able to organise a session in Chinese

What do students do

- After this module?

17th November 2011

DCS students win Appathon and meet the Prime Minister at Number 10

Three of our 4th year students (Sam Oakley, Luke Stringer and Mark Dessain) have won a competition to design a mobile app involving 850 students from across the UK.





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Meet Paul



Paul Ridgway

Co-Founder and Supreme Overlord at The Floow Limited

Sheffield, South Yorkshire, United Kingdom



1st

Geographical Reach

Current Company: The Floow Limited

Previous Company: Abstract Void, Junior Product Manager

Education: The University of Sheffield

[Send a message](#)



uk.linkedin.com/pub/paul-ridgway/22/45b/5a

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Leaders in Telematics

About

We founded and grew The Floow on the belief the provision of telematics insight to insurers can transform the traditional "transactional model" to a "relationship and service led model."

To achieve this, The Floow has built excellence in data collection, storage, management & enhancement and interpretation,

IW: The programme

- Week 1: Introduction to the module: the Web, past, present and future
- Week 2: Accessing the web; client server architectures; NodeJs and Express
- Week 3: Flexible client server architectures with Json, Ajax
- Week 4: No SQL Web Databases
- Week 5: Building Progressive Web Apps
- Week 6: Web 2.0, Socket.io, Videoconferencing

- Week 7: Big data: recommender systems, search engines
- Week 8: Feedback o Part 1
- Easter Holidays
- Week 9: The Web of Data
- Week 10 The future of the Web - invited guests (former students who have made a fortune using Web Tech)

IF YOU ARE An MSC student

- You must ALSO read there lecture notes of Web Technologies
 - THIS IS A REQUIREMENT FOR YOUR MODULE
 - NO MATTER IF YOU THINK YOU KNOW THE BASICS OF WEB TECHNOLOGIES
 - Slides are on Mole

P.S.

- Are you an American Exchange Student?
 - You are in the wrong place
 - But at least I hope you enjoyed this lecture :)

Come and talk to me at the end of the lecture



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Questions?
