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1

Due to its ability to solve all main problems associated with digital goods, Digital Rights, Digital Rights Management is the favorite option used by companies to tackle piracy.

The aim of this article is to discuss the consequences of DRM for consumers, firms and society.

The rationales of DRM are discussed and the expected benefits for firms are presented.

In contrast, consumers are shown to be likely to see few benefits in DRM.

The article concludes with some public policy recommendations.

2

Many students sit in a tutorial week after week without saying anything.

Why is that?

Maybe they do not know the purpose of a tutorial.

They think it is like a small lecture where the tutor gives them information.

Even if students do know what a tutorial is for, there can be other reasons why they keep quiet.

3

A report conducted to examine the difference between male and female drivers in term of travel characteristics and found that fatal crash rush occurred during morning periods.

This is the data with road safety analyses that most accidents occurred at the periods as early as 5 AM in the morning to 7 AM.

While virtually all drivers killed, young drivers should be given special attention.

In particular, reckless behavior which have traditionally concentrated on the role of the young drivers.

Laws need enforcement to be effective and a various program should target areas of traffic safety, young drivers training crash reduction, and injury reduction.

4

Copernicus probably hit upon his main idea sometime between 1508 and 1514.

For years, however, he delayed publication of his controversial work, which contradicted all the authorities of the time.

The historic book that contains the final version of his theory, *De revolutionibus orbium coelestium libri vi* ("Six Books Concerning the Revolutions of the Heavenly Orbs"), did not appear in print until 1543, the year of his death.

According to legend, Copernicus received a copy as he was dying, on May 24, 1543.

The book opened the way to a truly scientific approach to astronomy. It had a profound influence on later thinkers of the scientific revolution, including such major figures as Galileo, Johannes Kepler, and Isaac Newton.

5

In the early years of piano construction, keys were commonly made from sugar pine.

Today they are generally made of spruce or basswood, for lightness.

Spruce is normally used in high-quality pianos.

Traditionally, the black keys were made from ebony and the white keys were covered with strips of ivory, but since ivory-yielding species are now endangered and protected by treaty, plastics are now almost exclusively used.

Also, ivory tends to chip more easily than plastic.

6

If you want to visit Mars, visit Turkey.

That's where you'll find lakes so salty that the only bugs able to live there are species that could probably survive on Mars as well.

For that reason, microbiologists in Turkey have surveyed the array of species that inhabit the Acigol, Salda and Yarisli lakes.

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They're hopeful that studying some of them will yield useful insights into the kinds of biology that could help microbes exist on Mars or other potentially habitable planets and moons

7

Formal medical education in Manchester began in 1814 when Joseph Jordan opened the first anatomy school in the English provinces.

Previous lecture courses in medicine had included a series given by Peter Mark Roget, then a physician at Manchester Infirmary (1804–8), but better known for his later Thesaurus

Jordan, however, offered dissections as well as lectures, and medical education proved good business.

In London the private anatomy schools, which had competed with each other for decades, became incorporated with the hospitals, but in the provinces private medical schools continued beyond 1870, using the hospitals for clinical teaching but not formally attached to them.

8

Within the country, there are more than 100 schools providing course and accommodations.

If you can, avoid accepting an offer without visiting the university.

This can let you know whether the reality is different from the website of the university.

We also recommend having a look at the surroundings.

This will help you get familiar with the teaching facilities and where to live off campus in the second year.

9

Most people expect and achieve higher income.

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They desire a greater purchasing power, which is defined as the value of a currency in terms of the goods or services that one unit of it can buy.

Some people maintain a same income.

Thus, their purchasing power has been eaten away by the inflation rate.

10

The purpose of assignments is to assess how students understand the knowledge.

Students will write assignments by their own idea.

Students will use notes to support ideas.

They need to further explain the notes.



11

When students are learning or taking exams, they will apply or recall the knowledge they've acquired.

Students will also think about the knowledge when they're writing essays.

Teachers will host online sessions for students to discuss the essays.

By doing so, students can leave comments and go over all the information they have learned.

12

I think, we should be wary of the reporting of science-it is often over-dramatized in order to secure an audience- but not of science itself.

Of course, there are rare extremely scientific dishonesties, which will be seized upon by the news organizations.

The role of science in modern society remains valuable.

Mobile phones, for example, can cause incidents if drivers insist on talking on the phone instead of looking at roads.

But no one would argue that mobile phones cannot help to make a phone call when we are in a crisis.

13

The job of a manager in the workplace is to get things done through employees.

In order to accomplish this, the manager should be able to motivate employees.

That is, however, easier said than done.

Motivation practice and theory are difficult subjects, encompassing various disciplines.

14

Markets may be good at encouraging innovation and following trends, but they were not good at ensuring social equality.

These markets had become rapidly dominated by powerful enterprises who were able to act in their own interests, against the interests of both workers and consumers.

There had already been some legislation to prevent such abuses - such as various Factory Acts to prevent the exploitation of child workers.

Mill was able to see an expanded role for the State in such legislation to protect us against powerful interests.

He was able to argue that the State was the only organ that was genuinely capable of responding to social needs and social interests, unlike markets.

15

Vegetarians do not eat meat or fish in their diet.

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This diet is not only unattractive, but also may cause nutritional imbalance if not managed well.

Restaurants and school cafeteria adjust and amend their menus to adapt to this special diet.

Menus in all of these places have become more balance in nutrients, and also attract those who are not vegetarians.

These developments/improvements won't succeed without the effort of vegetarians.

16

Many people face serious financial crisis when they are only 20-30 years old.

This is because they do not really pay attention to their daily spending, and have poured their spending on buying.

This will lead to them paying piling credit card loan and monthly payments.

Although they can have student loan, people should advise them about responsible spending and saving.

17

The invention of electronic devices is a huge step and advancement of humans.

Such as washing machine, video game players, etc.

But how to deal with these e-waste has become a problem.

The amount of e-waste has been growing by 3% to 5% every year.

18

All over the world students are changing countries for their university studies.

They don't all have the same reasons for going or for choosing a particular place to study.

They may choose a university because of its interesting courses or perhaps because they like the country and its language.

Some students go overseas because they love travel.

Whatever the reason, thousands of students each year make their dreams of a university education come true.

19

Heart attack is the caused by the sudden blockage of a coronary artery by a blood clot.

When the clot is formed, it will stay in the blood vessels.

The clot in blood vessels will block blood flow.

Without the normal blood flow, it will cause muscle contraction.

20

In some areas, the standard chosen may be a variety that originally had no native speakers in the country.

For example, in Papua New Guinea, a lot of official business is conducted in Tok Pisin.

This language is now used by over a million people, but it began many years earlier as a kind of contact language called a pidgin.

A pidgin is a variety of a language (e.g. English) that developed for some practical purpose, such as trading, among groups of people who had a lot of contact, but who did not know each other's languages.

21

This paper summarizes some of the major data gathered in a longitudinal, naturalistic study of a Japanese girl learning English as a second language.

The subject in this study is Uguisu, "nightingale" in Japanese.

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Her family came to the United States for a period of two years while her father was a visiting scholar at Harvard, and they took residence in North Cambridge, a working-class neighbourhood.

The children in that neighborhood were her primary source of language input.

Uguisu also attended public kindergarten of two hours every day, and later elementary school, but with no tutoring in English syntax. Most of her neighbourhood friends were in her same class at school.

22

To overcome the pull of gravity and reach another body in space you need to achieve a certain speed.

A journey to Mars from Earth's surface requires a minimum total speed of nearly 30,000mph.

This requires large rockets, tonnes of fuel, and complex orbital maneuvering.

Due to the moon's weaker gravitational field, the same journey from the lunar surface would "only" require a speed of 6,500mph (2.9km/s).

This is roughly one third of that necessary to reach the International Space Station from Earth.

23

Numbers of staff who wish to turn up and do a simple job and go home is relatively happy if they believe their work is secured

However, any employee who wants to acquire more varied and responsible duties will not feel satisfied for long staying with the same and boring job.

People want to keep working hard only if there are opportunities for promotion to a more challenging job.

If this opportunity does not exist, they are most likely to be demotivated.

24



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A requirement of Humanities 104 is to write a persuasive paper on a topic of your choice.

The topic you choose should be supported by a range of sources.

The source should be cited under APA guidelines, and the final draft should be written in APA styles.

The final draft is due one week before the final exam.

25

A University of Canberra student has launched the nation's first father-led literacy project, to encourage fathers to become more involved in their children's literacy.

Julia Bocking's Literacy and Dads (LADS) project aims to increase the number of fathers participating as literacy helpers in K-2 school reading programs at Queanbeyan Primary Schools.

Having worked as a literacy tutor with teenagers, Ms Bocking saw the need for good attitudes towards reading to be formed early on – with the help of more male role models.

She said, "A male that values reading sets a powerful role model, particularly for young boys, who are statistically more likely to end up in the remedial literacy program."

26

It was there that Rosa Parks, an African American woman, refused to vacate her seat in the middle of the bus so that a white man could sit in her place.

She was arrested for her civil disobedience.

Parks' arrest, a coordinated tactic meant to spark a grassroots movement, succeeded in catalysing the Montgomery bus boycott.

Parks was chosen by King as the face for his campaign because of Parks' good standing with the community, her employment and her marital status.

Earlier in 1955, Claudette Colvin, a 15-year old African American girl, had been arrested for the same crime, however, King and his civil rights compatriots did not feel that she would serve as an effective face for the civil rights campaign.

27

Go to travel agency to book air tickets.

Tell your personal information and special diet requirements.

The information is stored in the airline computer.

Go to the airport to check in, where the staff check information stored in airline computer and give you generated barcode.

Scan the barcode and your luggage will go to the correct flight, and your special diet requirements will also appear.

28

Sometime about a million and a half years ago, some forgotten genius of the hominid world did an unexpected thing. He (or very possibly she) took one stone and carefully used it to shape another.

The result was a simple teardrop-shaped hand-axe, but it was the world's first piece of advanced technology.

It was so superior to existing tools that soon others were following the inventor's lead and making hand-axes of their own.

Eventually whole societies existed that seemed to do little else.

29

The physical location of a restaurant in the competitive landscape of the city has long been known as a major factor in its likely success or failure.

Once restaurants are established in such environments, they can do little about their location.

All they can do is work to improve customer access to their premises.

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Restaurateurs often do this by engaging in battles with local authorities about car parking.

30

A technology for recording brainwaves in wild animals awakens a more sophisticated understanding of the function of sleep.

Studies using miniature sleep recording devices known as neurologgers have already challenged several long-held beliefs about the sleeping habits of sloths and birds.

Three toed sloths, for example, sleep far less than once thought.

And male sandpipers can go almost entirely without sleep during the three-week breeding season, helping maximize success at that time.

Now John Lesku of La Trobe University in Melbourne and his colleagues are using neurologgers to investigate whether light pollution interferes with the circadian rhythms of tamar wallabies in Australia.

31

In 1997 Lisa McKeon, a physical scientist with the United States Geological Survey who works in the park, came across a pair of historic photographs depicting the glaciers she studies.

Over the years, countless photos of the majestic park have been snapped, and many of those have become part of the park's official archive, spanning over a century.

It was a lightbulb moment: Why not use the old photos to create a timeline of the morphing glaciers, and add new photos every year?

The Repeat Photography Project was born.

32

According to the Australian Institute of Family Studies, in 2014 an 11 years old boy was unable to live with his family, due to child abuse.

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He went to two schools while he was in foster care. One was Barr Beacon School, formerly Barr Beacon Language College, which is a mixed comprehension school for foster children.

But upbringing in the foster care system means he has no-one to help him. It's not his fault, yet he is being penalized for something he can't change.

Children like him involved with child protective services were shown to have consistently low average math and reading standardized test scores.

One of the recommendations was to send him to his relatives who were willing to take care until he was 18. This resulted in a positive outcome in academic achievement.

33

Education scholars generally agree that mayors can help failing districts.

But they are starting to utter warnings.

Last summer the editors of the Harvard Educational Review warned that mayoral control could reduce parents' influence on schools.

One pointed to Mr. Bloomberg's aggressive style as an example of what not to do.

34

Karl Marx is arguably the most of the most famous political philosopher of all time, but he was also one of the great foreign correspondents of the nineteenth century.

During his 11 years writing for the New York Tribune – their collaboration began in 1852 – Marx tackled an abundance of topics, from issues of class and the state to world affairs.

Particularly moving pieces highlight social inequality and starvation in Britain, while others explore his groundbreaking views on the slave and opium trades — Marx believed Western powers relied on these and would stop at nothing to protect their interests.

Above all, Marx's fresh perspective on nineteenth-century events encouraged his readers to think, and his writing is surprisingly relevant today.

35

We'll likely have two billion more mouths to feed by mid-century — more than nine billion people.

But sheer population growth isn't the only reason we'll need more food.

The spread of prosperity across the world, especially in China and India, is driving an increased demand for meat, eggs, and dairy, boosting pressure to grow more corn and soybeans to feed more cattle, pigs, and chickens.

If these trends continue, the double whammy of population growth and richer diets will require us to roughly double the amount of crops we grow by 2050.

36

It was taken over by Mittal, a Dutch-registered company run from London by its biggest single shareholder, Lakshmi Mittal, an Indian who started his first business in Indonesia.

The takeover battle raged for six months before Arcelor's bosses finally listened to shareholders who wanted the board to accept Mittal's third offer.

The story tells us two things about European business, both positive.

First, shareholder activism is increasing in a continent where until recently it was depressingly rare.

Second, and more important, the Arcelor Mittal deal demonstrates Europe's deepening integration into the global economy.

37

Sea level rise leads to 36 thousand human deaths every year.

This number can rise if sea level ceaselessly goes up, scientists notified.

According to research, if sea level rises 50 centimeters, 86 million people will die.

If sea level rises 1 meter, 168 million people will die all around world.

38

Road safety analyses of driver behavior have traditionally concentrated on the role of the male driver.

While this is in keeping with the fact that the majority of drivers involved in fatal crashes are male, the relative proportion of fatal crashes involving female drivers has been steadily increasing over many decades.

Thus, while virtually all drivers killed 45 years ago were male, the percentage of female driver fatalities had risen to 13% in 1970 and in recent years females have accounted for between 22% and 27% of all driver deaths.

In view of this situation, this report examines differences between male and female drivers in terms of travel characteristics, fatal crash risk, fatal crash characteristics and factors affecting injury outcome.

39

The “Festival in The Desert” is a celebration of the musical heritage of the Touareg, a fiercely independent nomadic people.

It is held annually near Essakane, an oasis some 40 miles north-west of Timbuktu, the ancient city on the Niger River.

Reaching it tests endurance, with miles of impermanent sand tracks to negotiate.

The reward of navigating this rough terrain comes in the form of a three-day feast of music and dance.

40

Over the years many human endeavors have had the benefit of language.

In particular, a written language can convey a lot of information about past events, places, people and things.

But it is difficult to describe music in words, and even more difficult to specify a tune.

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It was the development of a standard musical notation in the 11th century that allowed music to be documented in a physical form.

Now music could be communicated efficiently, and succeeding generations would know something about the music of their ancestors.

41

Conferences have played a key role in guiding the work of the UN since its inception.

In fact, the world body was born when delegates from 50 nations met in San Francisco in April 1945 for the United Nations Conference on International Organization.

The recent high-profile conferences on development issues, which have continued a series that began in the 1970s, have broken new ground in many areas: By involving Presidents, Prime Ministers and other heads of State — as pioneered at the 1990 World Summit for Children.

These events have put long-term, difficult problems like poverty and environmental degradation at the top of the global agenda.

These problems otherwise would not have the political urgency to grab front-page headlines and command the attention of world leaders.

42

Anyone wanting to get to the top of international business, medicine or academia (but possibly not sport) needs to be able to speak English to a pretty high level.

Equally, any native English speaker wanting to deal with these new high achievers needs to know how to talk without baffling them.

Because so many English-speakers today are monoglots, they have little idea how difficult it is to master another language.

Many think the best way to make foreigners understand is to be chatty and informal.

This may seem friendly but, as it probably involves using colloquial expressions, it makes comprehension harder.

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43

Palau and his colleagues wanted to see if any trends had emerged from the research to date concerning how video games affect the structure and activity of our brains.

They collected the results from 116 scientific studies, 22 of which looked at structural changes in the brain and 100 of which looked at changes in brain functionality and/or behavior.

The studies show that playing video games can change how our brains perform, and even their structure.

For example, playing video games affects our attention, and some studies found that gamers show improvements in several types of attention, such as sustained attention or selective attention.

44

Are there any systems that can measure the accounting system?

Well, there is accounting software which describes a type of application software that records and processes accounting transactions within functional modules such as accounts payable, accounts receivable, payroll, and trial balance.

It is a system in which functions as an accounting information system.

This enables the access anywhere at any time with any device which is Internet enabled, or may be desktop based. It varies greatly in its complexity and cost.

These tools combine together to provide quality customer service and create a climate of confidence, a customer service strategy that helps meet the specific needs.

45

It is a truism to say that in the 21st century society, science and technology are important.

Human existence in the developed world is entirely dependent on some fairly recent developments in science and technology.

Whether this is good or bad is, of course, up for argument.



But the fact that science underlies our lives, our health, our work, our communications, our entertainment and our transport is undeniable.

46

In 'Easier Said than Done', we set out some of the reasons why we might find it hard to live in a healthy way, exercising, eating well, getting adequate sleep, and checking for early warning symptoms.

Perhaps most importantly, we look to the field of behavioural science for strategies that people can use to overcome those hurdles and to initiate lifestyle changes.

These include Commitment devices, where we make it very unattractive to not follow through on an intention.

Changing existing behaviour can be a difficult task, but with the help of these strategies new behaviours can become habitual, facilitating a long-term sustained healthy lifestyle.

47

Historical records, coins, and other date-bearing objects can help – if they exist. But even prehistoric sites contain records – written in nature's hand.

The series of strata in an archaeological dig enables an excavator to date recovered objects relatively, if not absolutely.

However, when archaeologists want know the absolute date of a site, they can often go beyond simple stratigraphy.

For example, tree rings, Dendrochronology (literally, —tree time) dates wooden artefacts by matching their ring patterns to known records, which, in some areas of the world, span several thousand years.

48

In Montana as elsewhere, companies that have acquired older mines respond to demands to pay for cleanup in either of two ways.

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Especially if the company is small, its owners may declare the company bankrupt, in some cases conceal its assets, and transfer their business efforts to other companies or to new companies that do not bear responsibility for cleanup at the old mine.

If the company is so large that it cannot claim that it would be bankrupted by cleanup costs, the company instead denies its responsibility or else seeks to minimize the costs.

In either case, either the mine site and areas downstream of it remain toxic, thereby endangering people, or else the U.S. federal government and the Montana state government pay for the cleanup through the federal Superfund and a corresponding Montana state fund.

49

More recent missions to Mars include the hugely successful Mars Pathfinder, which landed a small 'rover' called Sojourner on the surface to explore a region where there may once have been life.

Sojourner has now been effectively switched off, but lasted almost twelve times its expected lifetime.

Similarly, the lander, which imaged several areas around the landing site (dubbed the Carl Sagan Memorial site) and took atmospheric measurements, lasted a good deal longer than expected.

The only unfortunate thing to have arisen from the mission is the naming of the rocks at the landing site (including everything from Scooby Doo to Darth Vader)

50

Researchers in the field of artificial intelligence have long been intrigued by games, and not just as a way of avoiding work.

Games provide an ideal setting to explore important elements of the design of cleverer machines, such as pattern recognition, learning and planning.

Ever since the stunning victory of Deep Blue, a program running on an IBM supercomputer, over Gary Kasparov, then world chess champion, in 1997, it has been clear that computers would dominate that particular game.

Today, though, they are pressing the attack on every front.

51

For more than 30 years, the prevailing view of the formation of our moon has been the "giant impact hypothesis".

The precursors to the current four rock planets – Mercury, Venus, Earth and Mars – appear to have been dozens of smaller bodies known as "planetary embryos".

According to the giant impact hypothesis, our moon formed as the result of the last of a series of "giant impact" mergers between planetary embryos that eventually formed the Earth.

In this last collision, one embryo was nearly Earth-sized and the other approximately Mars-sized.

52

Wal-Mart's core shoppers are running out of money much faster than a year ago due to rising gasoline prices, and the retail giant is worried, CEO Mike Duke said Wednesday.

"We're seeing core consumers under a lot of pressure," Duke said at an event in New York. "There's no doubt that rising fuel prices are having an impact."

Wal-Mart shoppers, many of whom live paycheck to paycheck, typically shop in bulk at the beginning of the month when their paychecks come in.

Lately, they're "running out of money" at a faster clip, he said.

"Purchases are really dropping off by the end of the month even more than last year," Duke said. "This end-of-month [purchases] cycle is growing to be a concern."

53

Unlike Barnes' previous books, *Mother of Storms* has a fairly large cast of viewpoint characters.

This usually irritates me, but I didn't mind it here, and their interactions are well-handled and informative, although occasionally in moving them about the author's manipulations are a bit blatant.

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They're not all necessarily good guys, either, although with the hurricanes wreaking wholesale destruction upon the world's coastal areas, ethical categories tend to become irrelevant.

But even the Evil American Corporate Magnate is a pretty likable guy.

54

**BCGI, a charity group, has compiled a list of trees on the basis of data gathered from its network of 500-member organizations.**

**BCGI, in collaboration with the International Union for Conservation of nature, identified 60,065 tree species currently living on earth.**

**Of that number, more than half were found to only occur in a single country, which could suggest an increased vulnerability to threats, said the authors of the database.**

The researchers claim to have collected the information over a period of two years from sources including over 500 published contents and 80 experts in the BCGI's network.

55

Humans appear to be the only species which is able to translate their communication into another medium, and in this case the medium provides a semi-durable record of the elements of the communication.

So reading is a very special ability that we have.

Reading also is special because, unlike language, most children have to be taught to read, write and spell.

So though we may be predisposed to being able to read and usually have the abilities necessary to master reading, it is something that most of us only accomplish through the direct help of others.

56

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Earlier this year, researchers from Duke University went to Gabon to monitor that country's dwindling elephant population. They took along three drones, which they planned to use to count the elephants, follow their herds, and map their migrations.

Only things didn't exactly go as planned.

The elephants noticed the drones, which hovered anywhere from 25 feet to 300 feet above them. And it wasn't just that the elephants noticed them; in many cases, the elephants were clearly agitated. Some of them took off running. In at least one case, an elephant used her trunk to hurl mud in the drone's direction. She had her baby with her, said Missy Cummings, the director of Duke's Robotics Lab.

The elephants reacted so strongly, the researchers believe, because drones, it turns out, sound a lot like bees. And elephants do not like bees at all.

57

Jean Briggs has worked with the Inuit of the Canadian Arctic and has described how, within these communities, growing up is largely seen as a process of acquiring thought, reason and understanding (known in Inuit as Ihuma).

Young children don't possess these qualities and are easily angered, cry frequently and are incapable of understanding the external difficulties facing the community, such as shortages of food.

Because they can't be reasoned with, and don't understand, parents treat them with a great deal of tolerance and leniency.

It's only when they are older and begin to acquire thought that parents attempt to teach them or discipline them.

58

When Vijay Govindarajan and Christian Sarkar wrote a blog entry on Harvard Business Review in August 2010 mooted the idea of a "\$300-house for the poor", they were merely expressing a suggestion.

"Of course, the idea we present here is an experiment," wrote Prof Govindarajan, a professor of international business at the Tuck School of Business at Dartmouth and Mr. Sarkar, a marketing consultant who works on environmental issues an almost apologetic disclaimer for having such a "far-out" idea.

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Who could create a house for \$300 and if it was possible, why hadn't it been done before?

Nonetheless, they closed their blog with a challenge: "We ask chief executives, governments, NGOs, foundations: Are there any takers?"

59

Employers are often reluctant to hire young people, even though there are more than 850,000 unemployed 16 to 24-year-olds and UK businesses are struggling to fill one in five vacancies because of skills shortages.

They are skeptical about young people's skills and their readiness for work.

But a growing number of companies are setting up schemes to recruit young workers.

They can be surprised by the results.

60

Arcelor, established in Dutch, had been the largest European steel maker since 2006.

It was taken over by Mittal, a Dutch-registered company run from London, by its biggest single shareholder, Lakshmi Mittal, an Indian who started his first business in Indonesia.

The takeover battle raged for six months before Arcelor's bosses finally listened to shareholders who wanted the board to accept Mittal's third offer.

The Arcelor-Mittal deal demonstrates Europe's deepening integration into the global economy.

61

There is a growing consensus that, if serious action is to be taken to reduce greenhouse gas (GHG) emissions in Canada, a price must be applied to those emissions.

There are, however, challenges associated with the political acceptability of carbon pricing.

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If Canada implements a carbon price on its own, there are worries that Canadian factories will relocate to other countries to avoid the regulation.

Even if other countries act in concert with Canada to price carbon, the effects will be uneven across sectors, and lobbying efforts by relatively more-affected sectors might threaten the political viability of the policy.

62

After World War II, especially in North America, there was a boom in general aviation, both private and commercial, as thousands of pilots were released from military service and many inexpensive war-surplus transport and training aircraft became available.

Manufacturers such as Cessna, Piper, and Beechcraft expanded production to provide light aircraft for the new middle-class market.

By the 1950s, the development of civil jets grew, beginning with the de Havilland Comet, though the first widely used passenger jet was the Boeing 707, because it was much more economical than other aircraft at that time.

At the same time, turboprop propulsion began to appear for smaller commuter planes, making it possible to serve small-volume routes in a much wider range of weather conditions.

63

Embryonic stem cells are valued by scientists because the cells' descendant can turn into any other sort of body cell.

These stem cells have been found in tissues such as the brain, bone marrow, blood, blood vessels, skeletal muscles, skin, and the liver.

They might thus be used as treatments for diseases that require the replacement of a particular, lost cell type.

Some examples cited for a possible treatment using these cells are diabetes, motor neuron disease and Parkinson's disease.

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To gauge optimism and pessimism, the researchers set up an experiment involving 22 calves.

Before they started the experiment, they trained the calves to understand which of their choices would lead to a reward.

In the training, each calf entered a small pen and found a wall with five holes arranged in a horizontal line, two-and-a-half feet apart.

The hole at one end contained milk from a bottle, while the hole at the opposite end contained only an empty bottle and delivered a puff of air in calves' faces.

The calves learned quickly which side of the pen held the milk reward.

65

Early in 1938, Mario de Andrade, the municipal secretary of culture here, dispatched a four-member Folklore Research Mission to the northeastern hinterlands of Brazil on a similar mission.

His intention was to record as much music as possible as quickly as possible, before encroaching influences like radio and cinema began transforming the region's distinctive culture.

They recorded whoever and whatever seemed to be interesting: piano carriers, cowboys, beggars, voodoo priests, quarry workers, fishermen, dance troupes and even children at play.

But the Brazilian mission's collection ended up languishing in vaults here.

66

University of Otago Center of International Health co-directors Professor Philip Hill and Professor John Crump share a view that global health is a multidisciplinary activity.

In their work - from Tanzania to the Gambia, from Myanmar to Indonesia and beyond - they tap into a wide range of expertise from across the University, including clinicians, microbiologists and molecular microbiologists, public health experts, economists and mathematicians.

They have also forged relationships and collaborations with research and aid agencies around the world.



For the past seven years Professor Philip Hill has been part of a collaborative tuberculosis research project in Indonesia, with the University of Padjadjaran in Bandung, West Java, undertaking European Commission-funded research into the causative links between infectious and non-communicable diseases in this case tuberculosis (TB) and diabetes mellitus.

67

Ecological Footprint Accounting measures the demand on and supply of nature.

On the demand side, the Ecological Footprint measures the ecological assets that a given population requires to produce the natural resources it consumes.

It tracks the use of six categories of productive surface areas: cropland, grazing land, fishing grounds, built-up land, forest area, and carbon demand on land.

On the supply side, a city, state or nation's bio-capacity represents the productivity of its ecological assets.

Both the Ecological Footprint and bio-capacity are expressed in global hectares - globally comparable, standardized hectares with world average productivity.

68

Mantle makes up 84 percent of Earth's volume, and though it's solid rock, over the course of millions of years, it behaves like a liquid.

This leads the tectonic plates on top to slowly jostle one another.

The buildup and sudden release of friction from this movement can cause earthquakes.

The movement also creates gaps in tectonic plates, which reduces pressure on the mantle beneath.

69

Fruit and vegetable intake is important for the prevention of future chronic disease. So it's important to know whether intakes of teens are approaching national objectives for fruit and vegetable consumption.

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Larson and colleagues from the University of Minnesota undertook the study to examine whether or not teens in the state were increasing their intake of fruits and vegetables.

The study gathered information about fruit and vegetable intake among 944 boys and 1,161 girls in 1999 and again in 2004.

Teens in middle adolescence are eating fewer fruits and vegetables than in 1999, Larson and colleagues found.

This is giving us the message that we need new and enhanced efforts to increase fruit and vegetable intake that we haven't been doing in the past.

70

Australia used to have a generous immigration policy for refugees fleeing violence and conflict.

We took even more than our share of refugees on a population-weighted basis.

With the election of a new administration, all refugees were subject to detention while waiting for a decision on their application.

At the same time, a raft of changes was introduced to alter Australia's migration law and policy.

The rate of refugee arrivals has indeed slowed; but, as some argue, at the expense of our human rights reputation.

71

A person or company located in New South Wales may not supply by wholesales any substance which is for their therapeutic use and included in Schedule 2 of the Poisons List.

Unless they are licensed or authorised to do so under the Poisons and Therapeutic Goods Regulation 2002, no one may supply these Schedule 2 substances.

Additionally, wholesales have an obligation to ensure that the persons or companies they supply are licensed or authorised, to obtain, use, supply or possess the substance.

Any breach of these regulations will result in immediate termination employment.

72

Due to increasing demands, people in every organization are pushing themselves to their limits.

Individuals arrive early to get work done before the phone starts ringing and the meetings begin.

Then, they stay late to get more work done.

These are signs for management to stop raising the performance bar every year, lest their staff become time-bankrupt.

Clearly, they need to avoid this situation, because eventually burnt-out employees can only have a negative impact on productivity.

73

International Economics: Theory and Policy is a proven approach in which each half of the book leads with an intuitive introduction to theory and follows with self-contained chapters to cover key policy applications.

The Eighth Edition integrates the latest research, data, and policy in hot topics such as outsourcing, economic geography, trade and environment, financial derivatives, the subprime crisis, and China's exchange rate policies.

New for the Eighth Edition, all end-of-chapter problems are integrated into MyEconLab, the online assessment and tutorial system that accompanies the text.

Students get instant, targeted feedback, and instructors can encourage practice without needing to grade work by hand. For more information visit MyEconLab.

74

Although experts like journalists are expected to be unbiased, they invariably share the system biases of the disciplines and cultures in which they work.

Journalists try to be fair and objective by presenting all sides of a particular issue.

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Practically speaking, however, it is about as easy to present all sides of an issue as it is to invite candidates from all political parties to a presidential debate.

Some perspectives ultimately are not included.

75

Educational Media Services runs a Filming Coordinating service which acts as a starting point for film companies wishing to use the University as a location, and provides advice and support for those parts of the University which receive requests to act as location for commercial filming.

Oxford University has a vast collection of buildings and rooms dating from the 11th century to the present day, and designed by architects such as Wren and Cockerell, Arne Jacobsen and Norman Foster.

The Filming Coordinator draws on 20 years' experience of filming around these locations, and has knowledge of the needs of crews and the requirements of the owners of locations.

As part of the service, based on knowledge of the University year, he will also advise on the likely availability of rooms.

76

Decades ago, we connected computers and got today's powerful Internet.

In the last few years, we started to connect everyday objects using machine-to-machine (M2M) technologies, to create the Internet of Things.

But what does this really mean to you, your company and your country?

What are the possibilities it offers, and the threats it poses?

77

Roads of rails called Wagonways were being used in Germany as early as 1550.

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These primitive railed roads consisted of wooden rails over which horse-drawn wagons or carts moved with greater ease than over dirt roads. Wagonways were the beginnings of modern railroads.

Thirteen years later, iron had replaced the wood in the rails and wheels on the carts.

In 1789, Englishman William Jessup designed the first wagons with flanged wheels.

The flange was a groove that allowed the wheels to better grip the rail; this was an important design that carried over to later locomotives.

78

All animals have a strong exploratory urge, but for some it is more crucial than others.

It depends on how specialized they have become during the course of evolution.

If they have put all their effort into the perfection of one survival trick, they do not bother so much with the general complexities of the world around them.

So long as the ant eater has its ants and the koala bear its gum leaves, then they are satisfied and the living is easy.

The non-specialists, however, the opportunists of the animal world, can never afford to relax.

79

My study of the history of religion has revealed that human beings are spiritual animals. Indeed, there is a case for arguing that Homo sapiens is also Homo religious.

Men and women started to worship gods as soon as they became recognizably human; they created religions at the same time as they created works of art.

This was not simply because they wanted to propitiate powerful forces.

These early faiths expressed the wonder and mystery that seems always to have been an essential component of the human experience of this beautiful world.

80

The Newness railroad was closed in 1932 after 25 years of shipping oil shale.

The rails were pulled out of the 600-meter tunnel, which had been bored through the sandstone in the Wollemi National Park, and the tunnel was left to its own devices.

For Newness, that meant becoming home to thousands and thousands of glow worms.

The glow worm is a catch-all name for the bioluminescent larvae of various species, in this case, the *Arachnocampa richardsae*, a type of fungus gnat. Found in massive numbers in caves, the fungus gnat larvae cling to the rocky walls of the abandoned tunnel and hunt with long, glowing strings of sticky mucus.

81

In most countries it is only the government, through their central banks, who are permitted to issue currency.

But in Scotland three banks are still allowed to issue banknotes.

The first Scottish bank to do this was the Bank of Scotland.

When this bank was founded in 1695, Scots coinage was in short supply and of uncertain value, compared with English, Dutch, Flemish or French coin.

To face growth of trade it was deemed necessary to remedy this lack of an adequate currency.

82

In language learning there is a distinction between competence and performance. Competence is a state of the speaker's mind. What he or she knows?

Separate from actual performance – what he or she does while producing or comprehending language. In other words, competence is put to use through performance.

An analogy can be made to the Highway Code for driving. Drivers know the code and have indeed been tested on it to obtain a driving license.

In actual driving, however, the driver has to relate the code to a continuous flow of changing circumstances, and may even break it from time to time.

Knowing the Highway Code is not the same as driving.

83

Normally in Delhi, September is a month of almost equatorial fertility and the land seems refreshed and newly-washed.

But in the year of our arrival, after a parching summer, the rains had lasted for only three weeks.

As a result dust was everywhere and the city's trees and flowers all looked as if they had been lightly sprinkled with talcum powder.

Nevertheless the air was still sticky with damp-heat, and it was in a cloud of perspiration that we began to unpack.

84

Despite posting healthy profits, Volkswagen shares trade at a discount to peers due to bad reputation among investors, high capital expenditure and its close links to the state of Lower Saxony, which effectively has a blocking minority

A disastrous capital hike, an expensive foray into truck business and uncertainty about the reason for a share buyback has in recent years left investors bewildered.

The main problem with Volkswagen is the past. Many investors have been disappointed and frightened away.

Volkswagen shares trade at about nine times the 2002 estimated earnings compared to BMW's 19 and are the second cheapest in the sector.

85

The topography of the ocean floors is none too well known, since in great areas the available soundings are hundreds or even thousands of miles apart.

However, the floor at the Atlantic is becoming fairly well known as a result of special surveys since 1920.

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A broad, well-defined ridge - the Mid-Atlantic ridge - runs north and south between Africa and the two Americas. Numerous other major irregularities diversify the Atlantic floor.

Closely spaced soundings show that many parts of the oceanic floors are as rugged as mountainous regions of the continents.

Use of the recently perfected method of echo sounding is rapidly enlarging our knowledge of submarine topography.

During World War II great strides were made in mapping submarine surfaces, particularly in many parts of the vast Pacific basin.

86

The communities of ants are sometimes very large, numbering even to 500,000 individuals.

And it is a lesson to us that no one has ever yet seen quarrel between any two ants belonging to the same community.

However, they are in hostility not only with most other insects, including ants of different species, but even with those of the same species if belonging to different communities.

I have over and over again introduced ants from one of my nests into another nest of the same species; and they were invariably attacked, seized by a leg or an antenna, and dragged out.

It is evident, therefore, that the ants of each community all recognize one another, which is very remarkable.

87

A consequence of a settled existence is that it permits one to store food surpluses, since storage would be pointless if one didn't remain nearby to guard the stored food.

So, while some nomadic hunter-gatherers may occasionally bag more food than they can consume in a few days, such a bonanza is of little use to them because they cannot protect it.

But stored food is essential for feeding non-food-producing specialists, and certainly for supporting whole towns of them.



Hence nomadic hunter- gatherer societies have few or no such full-time specialists, who instead first appear in sedentary societies.

88

Sepahua, a ramshackle town on the edge of Peru's Amazon jungle, nestles in a pocket on the map where a river of the same name flows into the Urubamba.

That pocket denotes a tiny patch of legally logging land sandwiched between four natural reserves, all rich in mahogany and accessible from the town. "Boundaries are on maps," says a local logger, "maps are only in Lima," the capital.

In 2001 the government, egged on by WWF, a green group, tried to regulate logging in the relatively small part of the Peruvian Amazon where this is allowed.

It abolished the previous system of annual contracts.

Instead, it auctioned 40-year concessions to areas ruled off on a map, with the right to log 5% of the area each year. The aim was to encourage strict management plans and sustainable extraction.

89

Over the years, I have had the opportunities to observe and understand the thought processes behind the ads that have been flooding both the print and the TV.

Although there is a huge shift in the quality of ads that we come across on daily basis – thanks essentially to improvement in technology – I somehow can't help but feel that the quality of communication of the message has become diluted.

There is an increasing attempt by most companies to be seen as cool and funky.

Another reason could be the burgeoning number of companies, which means an exponential increase in the number of ads that are being made.

Proportionally, the number of ads that lack in quality, have gone up exponentially as well.

90

People always think it's easy to organise a meeting; however, there are many potentials that can hinder the starting time.

This is especially true when employees are working with a large number of partners.

Employees may meet troubles such as contacting and organizing a date and time, arranging accommodation, etc.

In addition, sometimes you have to find children facility or other health care for the meeting participants.

91

Marquez arrived in October 1577 at the abandoned town of Santa Elena with two ships carrying pre-fabricated posts and heavy planking.

He erected for San Marcos in six days a defense against a Native American attack such as the one that forced the abandonment of the town a year earlier.

The town had flourished, nearing 400 residents, since its establishment more than a decade earlier in 1566 by Pedro Menendez de Aviles who had founded La Florida and St. Augustine the year before.

In 1571, it became the capital of Spanish Florida.

92

Markets may be good at encouraging innovation and following trends, but they were no good at ensuring social inequality.

These markets had become rapidly dominated by powerful enterprises who were able to act in their own interests, against the interests of both workers and consumers.

There had already been some legislation to prevent such abuses - such as various Factory Acts to prevent the exploitation of child workers.

Mill was able to see an expanded role for the State in such legislation to protect us against powerful interests.

He was able to argue that the State was the only organ that was genuinely capable of responding to social needs and social interests, unlike markets.

93

It is wrong, however, to exaggerate the similarity between language and other cognitive skills, because language stands apart in several ways.

For one thing, the use of language is universal – all normally developing children learn to speak at least one language and many learn more than one.

By contrast, not everyone becomes proficient at complex mathematical reasoning, few people learn to paint well, and many people cannot carry a tune. Because everyone is capable of learning to speak and understand language, it may seem to be simple.

But just the opposite is true – language is one of the most complex of all human cognitive abilities.

94

In the lobby of an internet search engine company's headquarters in California, computer screens display lists of words being entered into the company's search engine.

Although it says that the system is designed to filter out any scandalous or potentially compromising queries, the fact that even a fraction of searcher can be seen by visitors to the world's biggest search company is likely to come as a shock to internet users who think of web browsing as a private affair.

"People generally believe that using a search engine is the equivalent of talking to a priest or a rabbi," says Larry Ponemon, head of the Ponemon Institute, a privacy think-tank. "The public in general doesn't seem to fully understand how their privacy may be at risk."

However, that may be changing.

Over the past year, a series of privacy gaffes and government attempts to gain access to the internet user's online histories have, along with consolidation among online search and advertising groups, thrust the issue of internet privacy into the spotlight.

This presents a challenge to internet search companies, which have built a multi-billion-dollar industry out of targeted advertising based on the information users reveal about them online.

95

Innovation in India is as much due to entrepreneurialism as it is to IT skills, says Arun Maria, chairman of Boston Consulting Group in India.

Indian businessmen have used IT to create new business models that enable them to provide services in a more cost-effective way.

This is not something that necessarily requires expensive technical research.

He suggests the country's computer services industry can simply outsource research to foreign universities if the capability is not available locally.

This way, I will have access to the best scientists in the world without having to produce them myself, says Mr. Maria.

96

In the early years of the twenty-first century the impact of immigrants on the welfare state has become a staple of discussion among policy makers and politicians.

It is also a recurrent theme in the press, from the highbrow pages of Prospect to the populism of the Daily Mail.

Inevitably, these discussions focus on present-day dilemmas.

But the issues themselves are not new and have historical roots that go much deeper than have been acknowledged.

97

Another common mistake is to ignore or rule out data which do not support the hypothesis.

Ideally, the experimenter is open to the possibility that the hypothesis is correct or incorrect.

Sometimes, however, a scientist may have a strong belief that the hypothesis is true (or false), or feels internal or external pressure to get a specific result.

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In that case, there may be a psychological tendency to find "something wrong", such as systematic effects, with data which do not support the scientist's expectations, while data which do agree with those expectations may not be checked as carefully.

The lesson is that all data must be handled in the same way.

98

In May 2006, researchers at Yale University weighed in on green tea's health benefits with a review article that examined more than 100 studies on the subjects.

They pointed to the "Asian paradox", lower rate of heart diseases and cancer in Asia despite high rate of smoking.

They theorized that the 1.2 litres of green tea consumed by many Asians each day, provides high levels of polyphenols and other antioxidants.

This compound may work in several ways to improve cardiovascular health.

Specifically, green tea may prevent the oxidation of LDL cholesterol which in turn can reduce the build-up of plaque in arteries, the researchers wrote.

99

German invasion of Poland officially triggered the Second World War.

In the beginning, Britain and France were hopeful that Poland should be able to defend her borders.

But Polish forces could not defend a long border.

They lacked compact defense lines and additionally their supply lines were also poorly protected.

Meanwhile, the world had woken up to the potential of atomic energy and countries were conducting tests to exploit the same.

100

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Fireworks and special effects, including a red "waterfall" from the bridge base, will turn the structure built in 1932 into a giant Aboriginal flag shortly after the sunsets for the last time in 2015.

"It's about how we're all so affected by the harbour and its surrounds, how special it is to all of us and how it moves us," said the Welcome to Country's creative director, Rhoda Roberts.

From 8:40pm, the bridge will be turned into a canvas showing the Welcome to Country ceremony.

Fireworks and special effects will also turn the bridge into a giant Aboriginal flag before the 9pm fireworks display.

