



ISSUE 27

CAMPUS

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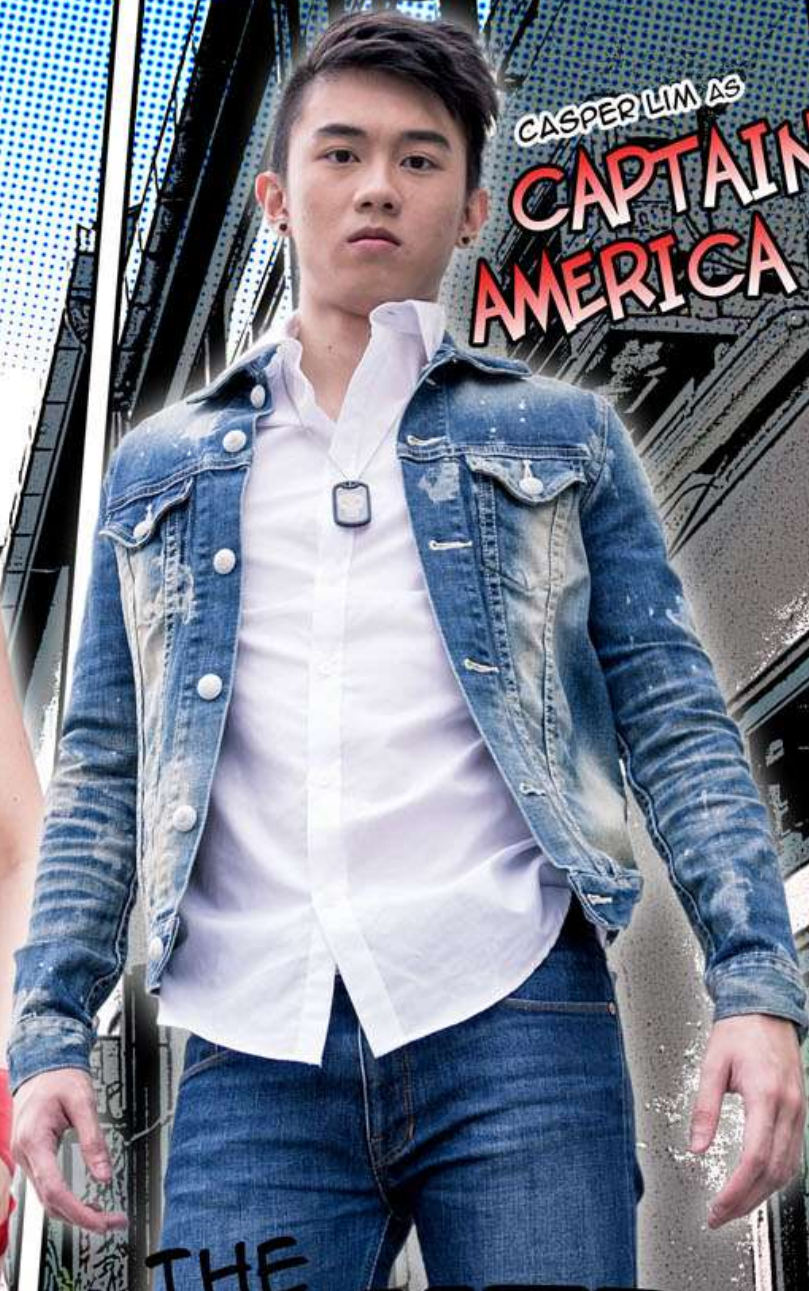
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THE SUPERHERO ISSUE

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Want to contribute?

Pick me!

Want to get yourself published? If you've got a good grasp of English and you're resourceful, hard-working and passionate, we have 2 options for you:

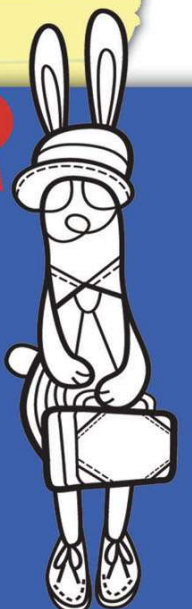
Option 1 : Campus Contributor

Perfect for those who have a few hours after school and love to write. You don't need to base yourself at our office (you'll just need to show up for your initial interview), and you get to work from home! As long as you stick to the deadline and your story is decent, you may see your name in print! If you're lucky, you'll also get to cover events and concerts!

Option 2 : Campus Intern

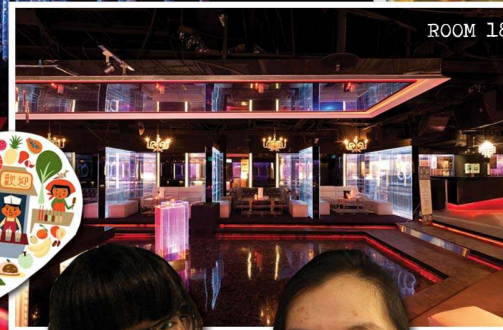
If you have lots of time to base yourself at our office, you'll get to do all that, plus be hands-on with day-to-day tasks, social media outreach and marketing. We promise that it won't be a cruddy internship, as we'll put you through the paces, but if you do well, we'll even take you out for beer on Fridays!

Interested? Send us your CV, portfolio (if you have one) and tell us in 100 words why you want to be a contributor or intern. Don't be scared - we don't bite. Apply via email to: interns@campus.com.sg

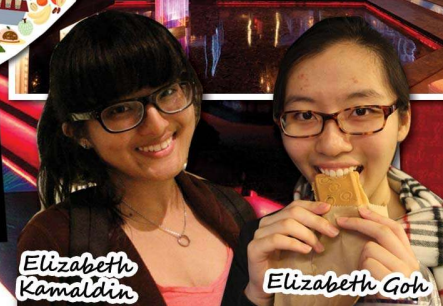


WANDER-FUL TAIWAN

PARTY YOUR SOCKS OFF!



ROOM 18



Elizabeth Kamaldin

Elizabeth Goh

Winners of the Travel2Taiwan contest, Elizabeth Kamaldin and Elizabeth Goh, present the highlights of their 9-day trip! Check out Elizabeth K's blog at bentonions.wordpress.com/!

Rub shoulders with celebrities at Room 18

TAIPEI

Luxy features big name DJs and music acts



LUXY

Zhongxiao E. Rd | www.luxy-taipei.com

Probably Asia's most luxurious nightclub, and definitely the largest in Taiwan, Luxy is the go-to place for Taipei's clubbers. Decorated with laser lights and luxurious furniture, the club - which takes up 2 floors and has 2 private elevators - has a very decadent feel, complete with a thumping sound system. You can go pretty much any night of the week, since the club is constantly featuring top global acts like Snoop Dogg / -Lion / -Zilla, Paul van Dyk, Armin van Buuren and Steve Aoki, to name a few. You'll be rubbing shoulders with a well-dressed crowd of locals and foreigners alike, with Luxy's famous bartenders and chefs dishing up awesome food and arguably the best cocktails in Taipei. Of course all that does come at a price, so be prepared to spend a little. But after all, you're worth it! Tip: Mention my name (Elizabeth Kamaldin) and you may, or may not get to cut the queue. No promises :)

ROOM 18

Nan Tian Street | www.fb.com/dreamsdisco

For a hip, slightly younger venue, head to Room 18, one of Taipei's premier nightlife destinations. It boasts a large dance floor usually packed with the young, the beautiful, and the wealthy. The music here consists of a mashup of techno and house, as well as high-energy hip-hop. The club keeps itself fresh and interesting with its décor changing often. It's usually packed on weekends, and is known for having a fair share of celebrities who sometimes pop by for an impromptu performance. Drinks are priced around NT\$250, and the club stocks itself up with a good selection of whiskey, brandy, and rum. Cover charges change every night, and can be as high as NT\$700 on a weekend with 2 drinks included, making it pricey compared to a run-of-the-mill watering hole, but then this isn't a run-of-the-mill watering hole.

This enormous club can accommodate 1000 people



KAOSIUNG

DREAMS

Song Ren Rd | www.room18.com.tw

Located right behind SOGO department store is the enormous nightclub, Dreams, which holds over a thousand people. If that sounds crowded it is, but that's because it's an awesome place. And if that all gets too much for you, you can just hang out at the impressively stocked bar... with beers for NT\$150 and mixed drinks at NT\$200 - very reasonable prices for the Taipei scene - you're sure to find something to keep yourself occupied. There's also a 2nd floor VIP lounge and suspended DJ booth. Tuesday is Free Entry Night and Wednesdays is Ladies Night (guys pay NT\$500 with 2 drinks - which conveniently equals one for you gentlemen and one for a lady :).

Party hard in Kaohsiung at Dreams



TAICHUNG

18TC

Dachuan St | www.18tc.com.tw

Opened just 2 years ago, 18TC is THE clubbing scene in Taichung. Drawing a decidedly young, happening crowd, guest DJs spin heart-thumping tunes, and there's numerous theme nights and events every week.

If you're sensing a family resemblance, good guessing you! 18TC is in fact the younger cousin to Taipei's clubbing institution - Room 18. Like you'd expect, 18TC boasts fancy lighting, major sound system, and luxury décor. Tip#1: Show up earlier (but obviously not too early) because after midnight, the club gets very packed & exclusive with long queues. Tip #2: Gentlemen: if you show up after midnight, try and bring a large group of good looking ladies with you. Hunks with entourage usually have a golden ticket to cut the queue after midnight. Cover charge is NT\$500 for both guys and girls alike including 2 drinks.

18TC



Fancy lighting features at 18TC



18TC

Team Jomash

CONCERTS

HO-HAI-YAN GONGLIAO ROCK FESTIVAL

Famous Ho-Hai-Yan Gongliao Rock Festival is Taiwan's biggest music festival and a major stop on the international concert circuit. Founded in 2000, the festival's grown to include epic lineups of both indie and mainstream bands side by side, along with art education, workshops and a huge, friendly campground atmosphere; held at beautiful Fulong Beach, it's easy to see the appeal of a rock festival with golden sand and palm trees. Best of all, admission's free so just dust off your old Zouk Out board shorts or bikini, and you're good to go.

Last year, there were 222 bands performing throughout the 5-day festival, which attracted over 870,000 visitors, with local boys Mayday (Wu Yue Tian) rounding out the proceedings.

HO HAI-YAN GONGLIAO FESTIVAL



Last year's festival attracted 870,000 people

weibo.com/thistownto



URBAN NOMAD OPENING PARTY

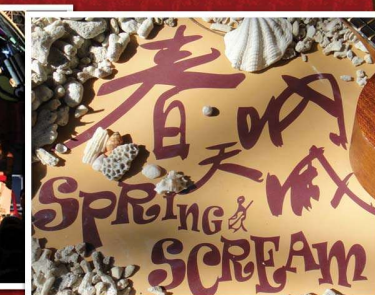
urbannomadfilmfest.blogspot.sg

Started in 2002, the annual Urban Nomad Film Fest is a festival primarily for short films and documentaries, but it also features bands, DJ performances, video screenings and art performances. Held every spring, you can party to electronic, dubstep, dancehall and reggae hits, with this year's event happening at Huashan 1914 Creative Park, with a lineup including Tokyo's Mop of Head, South Rakkas Crew and Juicy Lero Lero - check their website for details, schedules and ticket prices.

URBAN NOMAD OPENING PARTY



SPRING SCREAM



SPRING SCREAM

www.springscream.com

At nearly 2 decades, another household name in the local music scene is Taiwan's most venerable festival - Spring Scream. Each year thousands of fans come from around Taiwan and abroad, with this year's Spring Scream held in Kenting National Park, with 260 bands and DJs spread across the 4-day event.

For more tours, check out www.taiwan.net.tw



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Cheat Sheet

#26 History of Comics

Bleach and Naruto are some of the famous mangas worth reading

For those looking to enter the comic book sphere, the first stop often involves deciding what type of comic to immerse in because not only are they pigeonholed into various genres.

JAPANESE COMICS

Ubiquitously known as manga, this black-and-white art dates back to the scrolls that were created during the feudal period in Japan. However, manga truly found its footing when it adopted western elements in its comics in the early 20th century.

For many manga fans, anime is a rite of passage and this can be ascribed to 'Astro Boy', created by Osamu Tezuka. - otherwise known as the 'god of manga' - his manga received an animation version and was televised across the globe.

Compared to their American counterparts, who had the government clamp down hard on their content, manga was able to explore different avenues from sci-fi and adventure to scatology and even pornography.

With most of the drawings sporting signature characteristics like large eyes or small mouths, the crux of manga drawings is essentially about exaggerated emotions.

Manga to try reading: Naruto by Masahi Kimimoto, Bleach by Tite Kubo and Fairy Tail by Hiro Mashima

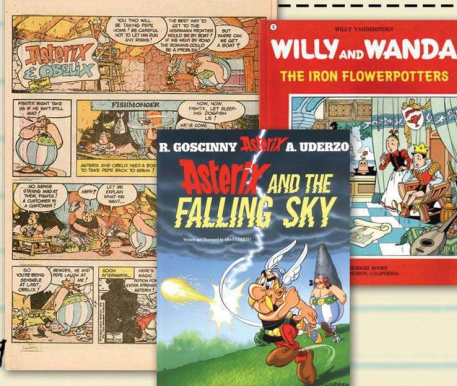
EUROPEAN COMICS

Flourishing after the success of Zig et Puce, which is a comic book about two teenagers and their misfit adventures, the comic bubble in Europe grew specifically among the French and Belgian audience with its full-colour comic books and newspaper strips.

Known as BDs, which is a contraction for bandes dessinées, the style adopted by these comics are made to look as realistic possible (called Ligne claire style), using less exaggerated emotions and facial features and compared to American and Japanese comics, the colour tones peddled by Franco-Belgian comics also tend to be more dynamic.

Often translated to other European languages like Italian and Spanish, Franco-Belgian comics may not be as popular as

Colours tones are more dynamic



the art form varies greatly across the globe. So here's a guide to help you maneuver through the expansive comic maze.

AMERICAN COMICS

First appearing as newspaper comic strips in the early 1900s, humour dominated much of these strips. However, it was only in 1938 with the establishment of Action Comics (now known as DC Comics) that American comics found their success with Superman.

The superhero genre flourished for a while till other genres like crime, horror and romance started popping up everywhere. This led to the bowdlerising of the comic industry, as most of the readers were young boys, which eventually reestablished the superhero genre.

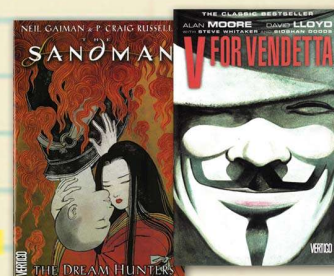
Often regarded as lowbrow art, it wasn't until graphic novels like The Watchmen, A Contract with God and The Dark Knight Rises that comics started gaining their momentum.

Drawings in American comics are comparatively varied when measured up against manga, however it does depend on the artist, as there have been artists like Frank Miller who are said to have drawn inspiration from manga artists.

Comics to try reading: The Sandman by Neil Gaiman, V for Vendetta by Alan Moore and Sleeper by Ed Brubaker



Watchmen was one of the first graphic novels



its other counterparts, but there have been plenty of animations that have hailed from these comics like The Smurfs and The Adventures of Tintin.

Comics to try reading: Asterix by Rene Goscinny, The Adventures of Nero by Marc Sleen and Spike and Suzy by Willy Vandersteen (which has an American version called 'Willy and Wanda')

KICKASS VILLIANS

BY ANNABELLE MARIA JEFFREY

THE BATTLE BETWEEN GOOD AND EVIL HAS ALWAYS BEEN A HOT TOPIC, AND WHEN IT'S A BATTLE BETWEEN SUPERHEROES AND VILLAINS, MORE OFTEN THAN NOT, IT IS THE SUPERHERO THAT ENDS UP CALLING THE SHOTS. HOWEVER, WITHOUT A VILLAIN TO FIGHT AGAINST, MOST SUPERHEROES WOULD BE RENDERED USELESS, SO WE'RE CHOOSING TO HONOUR SOME OF THE BEST VILLAINS THAT HAVE NOT ONLY DENTED POWERFUL FACES, BUT LEFT AN IMPRESSION.

CATWOMAN (DC)



Not an actual villain, but more familiarly coined as an anti-hero, Catwoman is one of the boldest female characters to come out of the Batman series. Tenacious, independent and often known to be morally conflicted, Catwoman is constantly jumping through hoops to outsmart Batman, but at times, she does join the righteous team to fight against the bad guys. Having Batman on a leash, romantically that is, Catwoman's villainous style does confound many because no one is ever going to know which side she is fighting for.

LOKI (MARVEL)



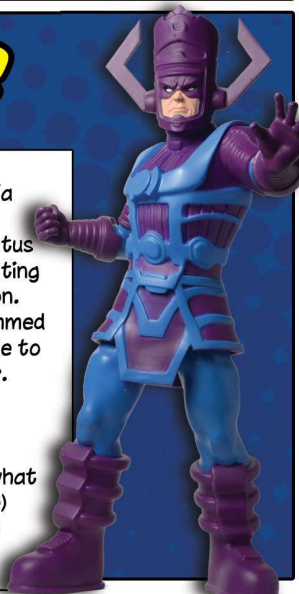
A villain known for his wit, charm and magic tricks in both the comic and movie, Loki, the trickster Norse god and half-brother of Thor is one of the most powerful villains in this Norse-centric comic. With incredible powers like shapeshifting, sorcery, and psychic abilities, Loki is also quite the athlete with his superhuman speed, strength and regeneration powers. However, even with strength and agility Loki still prefers his mischief by conning his enemies over ambushing them with brute strength.

DARK PHOENIX (MARVEL)



Dark Phoenix, a.k.a the dark Jean Grey, is a superhero-turned-villain in the X-men comic series who does not have any control over her Phoenix person, which results in disastrous effects in the Marvel universe. Having complete control over all matter, Dark Phoenix, who destroyed billions of lives while fighting against Darkseid, is said to be a great threat especially with her telepathic and telekinetic abilities, which have not only killed populations but entire planets too.

GALACTUS (MARVEL)



The only survivor from his planet Taa (a world known for its technological advancement), the powers that Galactus possess are boundless, from manipulating matter and levitation to teleportation. Powerful by nature, his energy is stemmed from feeding on planets which are able to sustain life - making him even deadlier. Galactus also possesses scientific knowledge that is way beyond human understanding or interpretation. His hunger for consuming energy is also what created the Silver Surfer (his protegee) and also his defeat brought on by the Fantastic Four.

DARKSEID (MARVEL)



Reigning over the planet Apokolips - known for its ruthless warriors - Darkseid is not known to attack unless provoked, but if he does, the aftermath involves demolished worlds. Like every villain, Darkseid has the desire to conquer and control, which he wants to achieve by solving the Anti-Life Equation - a formula created to establish mind control over all living beings, and to banish the idea of free will, giving him the power to rule. Besides the determination, this dictator is able to teleport, disintegrate or resurrect, all with just his ray beams. On one occasion, Darkseid even resorted to kidnapping Supergirl and brainwashing her into becoming the leader of his clan of female gods - the Female Furies - just so he could have a posse while attacking Superman and Earth.

NEKRON (MARVEL)



The king of all evil is none other than Nekron, the ruler of the Land of the Undying - a purgatory-like realm where confused souls of the departed reside before Judgement. The mastermind of the Black Lantern Corps, Nekron is also the creator of the black power rings, which helps to reanimate the dead, thus creating zombies that could serve as his army. The ring also helps to get the good guys to join his evil force; on some occasions he has successfully converted many Green Lantern soldiers into Black Lanterns, which also happened to include the famous Hal Jordan - the first human to join Green Lantern.

Freedom on Wheels

Holidays are best when you've got the freedom to do whatever you want. Which is what self-drive holidays are all about. And when it comes to travelling around Australia, a self-drive makes for great memories - as the movie '3 Peas In A Pod' testifies. Here are some recommended road trips Australia has to offer.



DOWNLOAD AUSTRALIA SELF-DRIVE GUIDE

Designed and developed by car rental company for car rental enthusiasts
www.hertz.com/AU/DrivingGuide



Image from South Australian Tourism Commission

kangaroo island

Visit Seal Bay and walk amongst a colony of 600 Australian sea lions, or head to Remarkable Rocks and Admirals Arch for a scenic backdrop shaped over centuries by the weather.

Don't forget to follow the local produce trail: from Clifford's Honey Farm to regional cheeses and jams, the island is a favourite amongst gourmands.



Scan this code for the Young Renters offer!

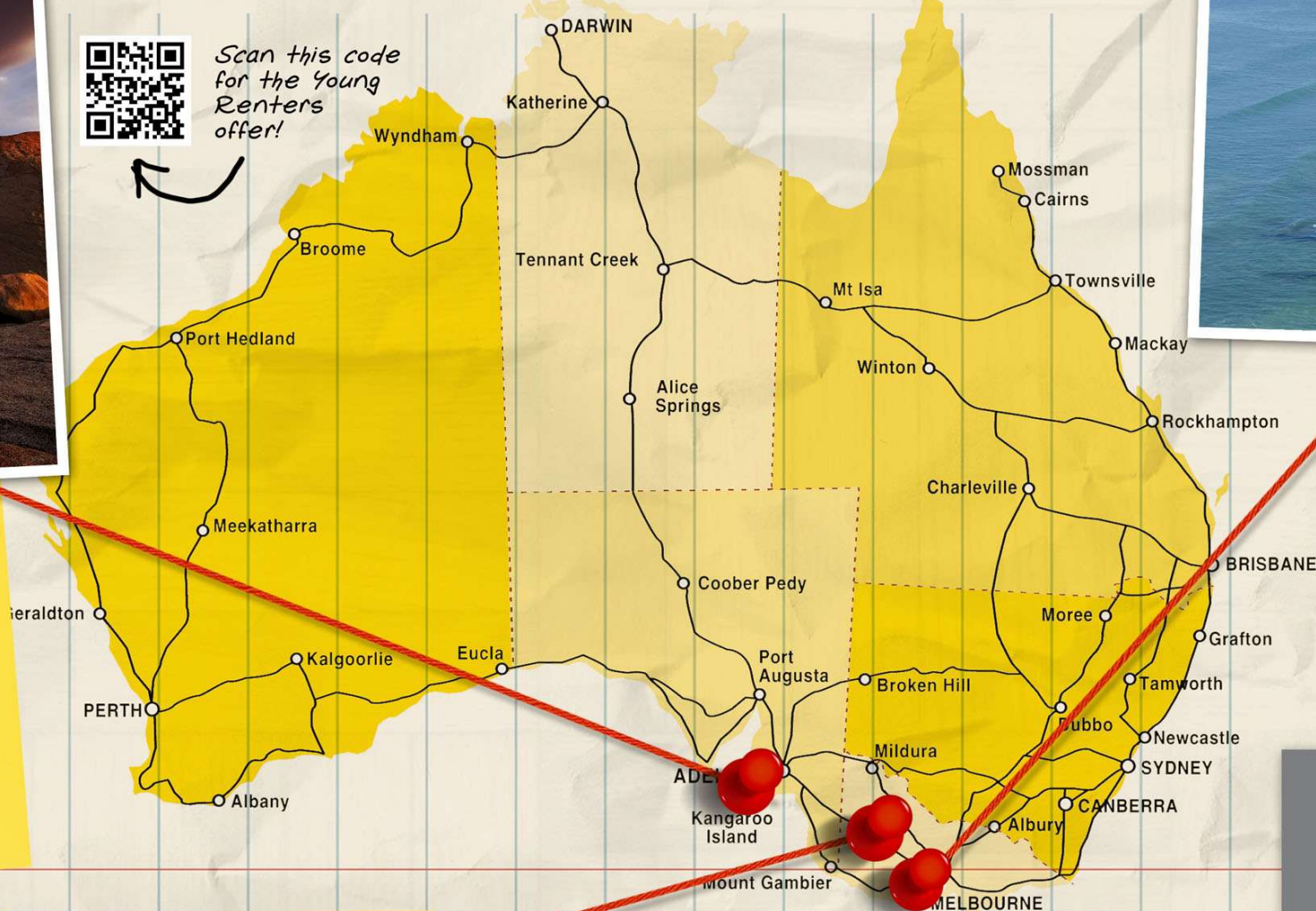


Image from Tourism Victoria

great ocean road

Visit the rugged coastline and rock formations at Port Campbell National Park, highlighted by the limestone stacks of the Twelve Apostles.

Base yourself at Apollo Bay and enjoy superior seafood (especially the local fish & chips). Go koala spotting in their natural habitat at nearby Kennet River.

SAVINGS AND MORE SAVINGS

Considering a Drive vs Flight from Melbourne to Adelaide? Skip the hours waiting at the airport. Share a comfortable road trip, stop along scenic spots at will and top it off with Hertz discounts, young renter waiver for renters aged 21-24, etc.

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the grampians

Get snapshots of kangaroos and emus at dusk or dawn at Halls Gap in the Grampians National Park.

Explore the national park - for a dash of adrenalin, try mountain biking, abseiling or 4WD tours through the rugged terrain. Marvel at the spectacular wildflowers bloom in spring and enjoy the breathtaking mountain vistas from Boroka Lookout, Reid Lookout, just to name a few.



Image from Huat Films

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PLAUSIBLE SUPERHEROES FROM SINGAPORE

We've all seen superheroes who fight for justice, and some for vengeance. But closer to home, we've neglected Singapore's unsung superheroes who 'fight' for their own sets of beliefs. Here is a list of our (made up) uniquely Singaporean heroes:

THE DISPATCHER

Identified by his signature backwards jacket (aka "cape"), the Dispatcher zooms around Singapore's streets as a messenger on two wheels. Sometimes seen lurking around coffee shops drinking teh halia and smoking with fellow superheroes.

SUPERPOWER:

No matter what he's couriating – be it an urgent letter, extra-large pizzas or fried chicken – he's able to weave between traffic at high speeds and has the occasional battle with taxis and traffic lights. Parking poses no problem, as he's able to do so on sidewalks and even on five foot ways.

WEAKNESS:

Rain. He'll have to take a break from superhero duties under a bridge.

MORAL AUNTIE

With her signature puffy hair and permanent scowl, the MA is all about enforcing morality – be it giving seats to the elderly in public transport or more recently, policing youths against underboobs.

SUPERPOWER:

The MA engages her enemies with her eye-power. The queen of a stare-down contest, she always manages to get her

TEXTER

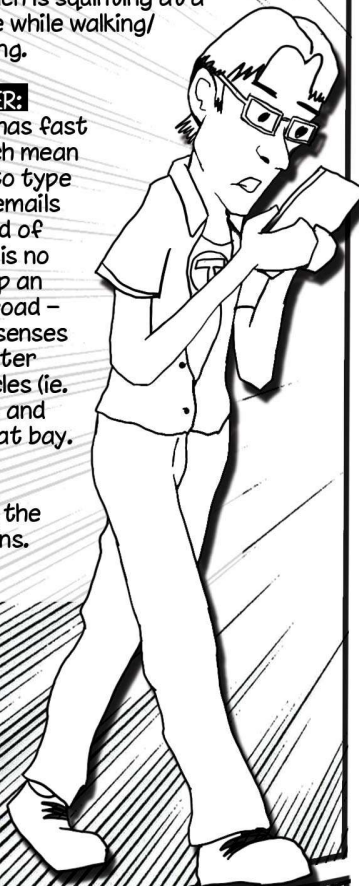
Whether you're on a bus or walking on the streets, you'll see Texter focused on the task at hand: which is squinting at a smartphone while walking/sitting/eating.

SUPERPOWER:

The Texter has fast fingers which mean the ability to type messages/emails at the speed of light. There is no need to keep an eye on the road – keen sonar senses help the Texter keep obstacles (ie. pedestrians and lampposts) at bay.

WEAKNESS:

Sometimes the lamppost wins.



BENG MAN

Often spotted at joints that serve whisky (ie. Chivas), the BM also fights crimes with chauvinism, although we're not quite sure how. If you don't see him, you'll definitely hear him.

SUPERPOWER:

The BM is a special hero who sees himself as an encyclopedia of everything in the universe. Often seen with images of random sports cars (not theirs) as their FB icons, they have an uncanny ability to insult their foes by demeaning them before verifying any facts. Other powers include nose-excavation, spitting and swearing.

incoherent curses in broken English/Hokkien/Mandarin.

WEAKNESS:

None of their powers work overseas simply because nobody understands them. And most of their powers don't work in Singapore either, since it's hard to take them seriously in any country.

Seen mainly around shopping malls, the BB is all about getting things done his way. Stubbornness triggers him to unleash his superpower.

SUPERPOWER:

The BB is capable of screaming his lungs out to overpower his weak-willed foes to get his way/ice cream/new toy/iPad. His persuasive powers are aided by his rotund bulk, which some folks consider endearing and therefore find it hard to resist. The trademark banshee-like scream of 'Mumeeee Mumeeee' can sometimes be heard for miles, which annoys the shit out of passers by.

WEAKNESS:

As this superhero is very young, their brains have yet to develop so they may be overpowered by mere ignorance or cake.

BRAT BOY

Known to many as the SPG, the SPG patrols watering holes around Singapore to hunt down her prey: the ubiquitous Ang Mo.

SUPERPOWER:

Like many young heroines, the PG wields her power through her curves. Her costume is key: the less she wears the more powerful she is and the faster the Ang Mo is overpowered. A strange foreign-like accent is often used to lure in her prey.

WEAKNESS:

Only able to fight in Ang Mo terrain, since in other local bars her attention span is extremely short (see BM's prowling grounds).



TAXI UNCLE

No stranger to Singapore's roads, the TU is a much-loved hero thanks to his ability to get us to places no bus has gone before.

SUPERPOWER:

To get to places fast, the TU unleashes his F1 high-speed weave, which he uses a lot on highways like the ECP, probably channelling his inner Schumacher. On streets where other cars try to take his lane, his weapon is The Staredown which can go on till the next traffic light. Passengers can always rely on his tips on where to get good chow, or his enlightened insights on CPF, ERP, etc.

WEAKNESS:

His taxi runs on diesel, or sometimes, vegetable oil so you can hear them coming easily.



PARTY GIRL

by Annabelle Maria Jeffrey & Lakshmi Ganesen

THE LIST

TOP-EARNING SUPERHERO MOVIES



THE AVENGERS

Dominating not just the American market but the overseas one as well, The Avengers, helmed by Joss Whedon, sees Marvel's mightiest heroes - Iron Man, The Hulk, Captain America, Black Widow, Hawkeye and Thor - fighting against the mischievous Loki. It has not only earned the title of third-highest grossing film of all time worldwide with more than SGD1.6 billion in the bank, it has also beat other high-grossing franchises like Harry Potter.

THE DARK KNIGHT FRANCHISE

Spearheaded by Christopher Nolan, The Dark Knight franchise is the highest earning Caped Crusader flick with SGD1.2 billion, leaving Tim Burton's and Joel Schumacher's version far behind. The movie within the franchise that received the most earnings is The Dark Knight Rises, which had appearances from Catwoman and Batman's formidable archenemy - Bane.



IRON MAN FRANCHISE

Billionaire, playboy and philanthropist, Tony Stark - played by Robert Downey Jr. - has taken the world by storm with his charming wit, and sturdy iron suit that shaped him to be America's undefeatable machine. The franchise which raked in over SGD3.03 billion had its surge of earnings from the third installment, which starred Ben Kingsley as The Mandarin.

SPIDER-MAN FRANCHISE

Kickstarting the superhero movie industry, Sam Raimi may not have been the first to direct a superhero flick, but after his bold move in the early 2000s, many directors followed suit. Bringing Spider-Man to the big screen, this franchise garnered over SGD1.6 billion with the third installment, featuring Venom, grossing in the highest earnings and winning an Academy Award for Visual Effects.



THE INCREDIBLES

Not the conventional superhero flick, this Disney animated movie has surpassed many other superhero films to reach the highest-grossing list with SGD 3.2 billion. However, unlike the other superhero movies listed above, this is family-friendly movie deals with less punches and more quirky dialogues, and it even has a baby that can turn into fire, steel or a devil.

It could be the physique, the ability to fly or superhuman strength, or maybe even the secret identity we all wished we had. Whatever the reason, superhero flicks are making headlines every time they're released. Here's a look at some of the highest grossing movies/franchises that has Hollywood rolling in dough.

THE REAL LIFE BAD GUYS

BY LAKSHMI GANESAN

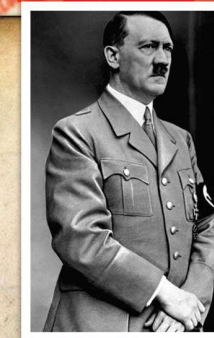
DICTATORS

VILLAINS IN REALITY AREN'T AS APPEALING OR SEXY AS THE BAD BOYS IN COMIC BOOKS OR MOVIES. YET, THEY'RE VICIOUS ENOUGH, WITH THE MASSACRES AND STARVATION THEY'VE

INFLECTED ON MILLIONS OF PEOPLE. SO HERE'S A LIST OF SOME OF THE MOST EVIL-DOERS EVER. THEY'VE NOT ONLY EARNED AN INFAMOUS PLACE IN HISTORY AS REAL VILLAINS, BUT HAVE WRECKED PLENTY OF HAVOC TO GET THERE.

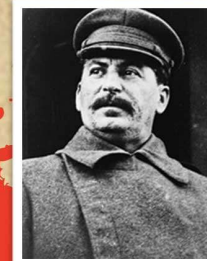
ADOLF HITLER (1889 - 1945)

Known for bringing Europe to its knees, as well as his signature moustache and Nazi salute, Hitler is one of the first few people that come to mind when the term 'dictator' is mentioned. The Holocaust is a state-sponsored murder spree which killed millions of innocent Jews as well as gypsies, Poles, Czechs and countless others he blamed for all Germany's ills. Ironically part-Jewish himself, he didn't let hypocrisy stop his insane plans for an Aryan master race, and remains a potent symbol of hate (and stupidity) among simple-minded bigots everywhere.



IDI AMIN DADA (1925 - 2003)

Preferring to go by the nickname 'Big Daddy', Idi Amin, who had once praised Hitler, plunged Uganda into economic darkness with numerous stunts he enforced, like expelling the largest make up of the workforce there - the Asians. He also earned the title 'Butcher of Uganda' because it was accounted that roughly 500,000 people were killed during his eight-year reign. The high death count also meant that Uganda was littered with corpses, and sticking to his cold-blooded nature he dumped bodies in the River Nile, chopped them up and fed them to wild animals, etc. Citizens that were alive weren't spared from the cruelty either, as most of them were starved to death and anyone that tried to step out of line was immediately tortured by Idi Amin's death squad.

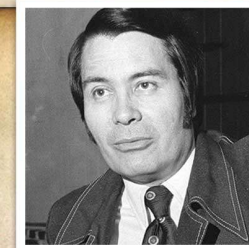


JOSEPH STALIN (1878 - 1953)

One of the key leaders behind the rise of communism, Joseph Stalin's rise to becoming a Soviet Union ruler involved plenty of calculated moves. However, as soon as he was in power, the ruthless dictator's disregard for people's lives surfaced. Looking to practise the fundamentals of communism which involves collectivism, he slayed citizens that would not comply with his rule, which led to what the world knows now as the Great Purge - a period which involved plenty of surveillance, mass starvation and the killing of millions of Russians.

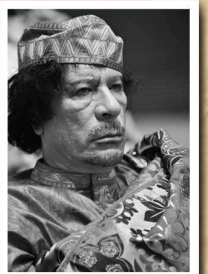
JIM JONES (1931 - 1978)

Engineering a 'revolutionary suicide' in 1978, Jim Jones, a minister from America, was looking to provide solace for the socially tormented, so he established the Peoples Temple. Housing this cult in Guyana on a piece of land he bought, Jim Jones' righteous view soon turned ugly, as his followers had to work brutally long hours and live in cabins that were cramped and gender-segregated, preventing married couples from living together. When some followers wanted out, he held them hostage. Eventually an American official flew to Guyana, where he was murdered by Jones' followers. Jones took that as a message from God, that his followers should all commit ritual suicide - whereupon armed guards made everyone drink poison, killing over 1,000 people.



MUAMMAR GADDAFI (1942 - 2011)

In the beginning, Gaddafi (or 'The Guide' to his petrified people) seemed normal enough. He claimed to be a liberator of women and purported to use Libya's oil wealth to help the oppressed. In reality, he spent most of his time indulging in ritualised sexual brutality against abducted girls, boys and dissidents. When not torturing, he avidly sponsored international terrorism - like the famous bombing of PanAm Flight 103. And like any eccentric super-villain, he had a huge ego, surrounding himself with an elite 'Amazonian' corp of female bodyguards, many of whom had been abducted, raped and brainwashed as children. His rambling 'Green Book', basically The Guide's guide to life, was required reading for his terrified population, and while there're still some 'loyalists' in Libya today, almost no one was sad to see him dead.



OUT AND ABOUT

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CAMPUS.SINGAPORE

OPEN HOUSE

Raffles College of Higher Education

Date: February 2014
Location: Raffles Education Square, 51 Merchant Road

LASALLE College of the Arts

Date: 17-18 January 2014 | **Time:** 11am - 5pm
Location: LASALLE College of the Arts

GIGS

25 Jan 2014 | 11am
The Meadow, Gardens by the Bay
Tickets: \$150

Laneway Festival Singapore 2014

A 12-hour festival that features three Singapore artists: Gemma, Vandetta & The Observatory along with other international artists & bands such as James Blake, Savages, Chvrches and more.

11 Jan 2014 | 7.30pm
Esplanade Concert Hall
Tickets: \$15 - \$72

Strauss Festival: Symphonia Domestica

The Strauss Festival presents the works of the Strauss household, as well as an unpublished work (Mozart's Concerto No.23 composed in 1786) by extraordinary pianist Fou Ts'ong.

2 PAIRS TIX



MOVIES



LONE SURVIVOR

(January 1, 2014)

Cast: Eric Bana, Mark Wahlberg, Ben Foster, Emile Hirsch

Based on a true story, Lone Survivor circles around a band of soldiers involved in 'Operation Red Wings', - a covert mission set out to neutralize the leader of the Taliban. Centered around this conflict between the patriotic soldiers and hostile Taliban members in the Hindu Kush region of Afghanistan, this biopic not only details the timeline of the failed mission, it exhibits the heroism and camaraderie deep-seated in these soldiers.

PRODUCTIONS



13-22 Dec 2013 | 2pm-8pm
Esplanade Theatre
Tickets: \$19 - \$127

Crazy Christmas Ting Tong Belles

Get ready to watch the Dim Sum Dollies in action, with Broadway Beng's Sebastian Tan and Kumar crashing their party adding laughter, fun, and joy to the festive spirit of Christmas! Be sure to also catch the newest addition to the Dollies - Denise Tan.

17 Dec 2013 - 5 Jan 2014 | 2pm, 8pm
Grand & Mastercard Theatres, Marina Bay Sands
Tickets: \$55-\$175

Notre Dame de Paris

After winning best show in France, Spain and Canada, Notre Dame is in Singapore to mesmerise audiences with acrobatic feats and dances that add to the heart-stirring romance between Quasimodo, the Hunchback of Notre Dame and his love, the gypsy Esmeralda.



1 PAIR TIX

Friday Freebies!

To win these, follow us on [facebook](#) [campus.singapore](#)

Trying to figure out what to give your friends for Christmas? Here are some gift ideas for you this season - from classic socks to cakes and nostalgic knick-knacks, we've got you covered. What's more, follow our Facebook page **TO WIN THEM FOR FREE!**



Friskybox

Need to add some flair to your outfit? Make a bold statement with socks from Friskybox. With designs ranging from aztec prints to polka dots and stripes, you'll be spoiled for choices. In addition to the various designs, they have various cuts too, from ankle socks to knee-high socks. Friskybox caters to both men and women and retails at several Tangs and Robinsons outlets.

emicakes

Indulge in Christmas goodies with emicakes' Christmas Dreamland Collection, which comprise 4 types of log cakes. There's Chocolate Wishes (a moist chocolate mousse and ganache cake filled with almonds), the Truffle Sparkle (a dark chocolate cake smothered in dark chocolate mousse) and the Tiramisu Wonderland - a non-alcoholic recipe with moist and fluffy vanilla cake with strong hints of coffee. For durian lovers, there's the creamy D24 Dreams, which is packed with luscious D24 filling.



Kapap Academy

Looking to defend yourself, but not sure how to? From hand-to-hand combat to defense strategies, Kapap Academy covers different forms of self-defense. They even have classes like 'How to survive a knife attack' or the 'Use of Improvised Weapon for Self Defense', which teaches you to protect yourself with everyday objects like a pen. So, before the year ends, equip yourself with a useful skill!

Campus readers! Just show this magazine to get a FREE trial lesson! Call 96182607 to book an appointment.



Centerpiece Creation

Marrying old school classics with modern artwork, these aesthetically pleasing and unique mugs will have your friends envying you as you make your drinks. The tiffin carriers, on the other hand, will have you bringing homemade food back in trend. A spin-off from traditional motifs of flowers and auspicious Chinese symbols, the tiffin carriers are not just practical, it's pleasing to the eye.



Statement

Statement retails t-shirts and bags with some of the most local and cheeky sayings. Those of you who don't mind causing a little mischief can carry the "suspicious looking article" tote bag on the MRT. A t-shirt for every occasion, like if you're late for school, the "i'm on the way" might just be up your alley. For those playful days, just don the "KNNBCCB" shirt and you'll be getting a few glares and snickers.



welovezakka

The cute 'Pony DIY Calendar' from welovezakka is cute, and is a great gift for friends who love their stationery. welovezakka sells a range of adorable stationery products as well as many odd bits and pieces - such as the REW wire keepers, which will come in handy for spooling your earphone wires in style. From Ninja post-its to charming notebooks, stationery shopping will no longer be boring.



AUTHENTIC SUPERHERO ABILITIES

BY LAKSHMI GANESAN

If you thought the special abilities that superheroes have only lie in fiction then you're wrong. Similar to how Flash can run at superhuman speeds, there are a few extraordinary individuals that have surpassed the human limit. Here are some of the most unbelievable tales that exist (or have existed) in real life.



THE REAL "MAGNETO"

Just like the X-Men villain Magneto who is able to control anything metallic, Liew Thow Lin – a Malaysian – has been bestowed human magnetism too. Nicknamed Magnet Man, this 79-year-old has even passed down his magnetic abilities to his progeny. With the capacity to attract up to 36kg of metal, scientists have attributed this mesmerising skill to the high levels of friction found on his body, which in turn gives him suction properties thus the illusion of attracting metal.

THE REAL "DEADPOOL"

Isao Machii, also known as the Modern Samurai, has amazing swordsman skills similar to that of Deadpool, who in comic books is known to be a blade wizard. This Japanese warrior who is able to slice a speeding pellet 4,000 times smaller than the size of a baseball, travelling at a speed of over 322 km/h) is said to process audio and visuals faster than the average human. Through an experiment conducted, Isao was able to slice a bullet from a gun before it could hit him.



THE REAL "ICE MAN"

Many know Wim Holf as the 'Ice Man' as he has climbed some of the iciest peaks including Mount Everest, donning only bike shorts and shoes. Holding over 20 Guinness world records for enduring extreme temperatures, Wim Holf claims his secret lies in meditating and a special breathing technique he's mastered. While many think he possesses a unique ability, Holf firmly believes that this is a skill that any human can acquire, and is currently working with researchers to prove this theory.



HULK JUNIOR

Putting weightlifters to shame, Liam Hoekstra who is just 8 years old is known for his superhuman strength because at the tender age of 2 days old, he was already able to walk. Before we start marveling at this extraordinary feat, Liam was actually born with a genetic condition that doesn't allow him to store fat, which has his muscles growing exponentially faster than most kids his age. This allowed him to do chin-ups at 12 months and move around bulky furniture at 18 months.



THE REAL "SHE-HULK"

Varya Akulova could be our very own She-Hulk. With the ability to carry 340kg in weights, this 21-year-old Ukrainian girl is the world's strongest girl and even holds a Guinness World Record for it. Without the need for supplements and just relying on her training and brute strength, Varya is able to carry weights that are four times her body weight.

THE REAL "FLASH"

Dean Karnaze, the man known to be always running, has run 50 marathons in 50 states over 50 days. He's even done a running stint in the South Pole under freezing temperatures of -25C. You might wonder where on earth this man gets the time and energy from? To start with, he actually eats while running. Along with that, he's mastered "sleep running", where his eyes are shut, but his body is still in motion. Another shocking skill that comes with this cross-country runner is that he does not feel the fatigue that happens with exercising. Scientists attribute all of this to his body's extraordinarily ability of removing lactic acid (the body chemical known to cause cramps and sore muscles) while running.



Photos by
Kiat Tan Weijie

SUPERHEROES OF COVERME CAMPUS

BEFORE ANY SUPERHERO MAKES HIS OR HER DEBUT, THERE IS ALWAYS A TRANSFORMATION. HERE IS WHAT WENT ON BEHIND THE SCENES AT OUR COVERME SUPERHERO PHOTOSHOOT...

SONY
make.believe

MAKE UP FOR EVER
PROFESSIONAL - PARIS

I*CON
by shunji matsuo

SKIN
2009

6

Jabra
YOU'RE ON

JRunway
from TOKYO

DEAL.com.sg

THE BOYS...

WHO SAYS BOYS DON'T CARE FOR THEIR HAIR? SOME OF THEM WERE WARY OF HAVING THEIR HAIR CUT OR RESTYLED BY SOMEONE ELSE. BUT THEY WERE GOOD SPORTS, AND ALLOWED ICON TO GIVE THEM A NEW LOOK...



THE GIRLS...

ALL OUR DAMSELS CAME WITH LONG TASSELS, WHICH SUITED THEIR SUPERHERO PERSONAS PERFECTLY. ISABELLE FINALLY GOT BANGS, WHILE TRISHNA GOT HER HAIR STRAIGHTENED AND CHERYL GOT A TEMPORARY PERM...



THE MAKEUP...

AFTER GETTING THEIR HAIR AND WARDROBE SETTLED, IT WAS OFF TO MAKEUP FOR THE FINAL AND CRUCIAL TRANSFORMATION!



ARE YOU READY TO SEE THEM IN THEIR SUPERHERO PERSONAS?

FLIP THE PAGE >>

CAMPUS
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SUPERHEROES OF COVERME CAMPUS

PHOTOS BY KIAT TAN WEIJIE

THEY CAME TO US AS MERE MORTALS, AND WERE TRANSFORMED INTO SUPERHEROES. HERE ARE OUR SIX COVERME FINALISTS...

SPECIAL THANKS TO
OUR SPONSORS:

MAKE UP FOR EVER
PROFESSIONAL - PARIS

I★CON
by shunji matsuo



CASPER LIM AS

CAPTAIN
AMERICA



ISABELLE NG AS

ELEKTRA



YUBIN OOH AS

CONSTANTINE

CHERYL ANN AS

WONDER
WOMAN

TRISHNA GOKLANI AS

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Yokohama Walkabout



Sankeien Garden

Located in southern Yokohama, the Sankeien Garden mixes natural beauty and historical buildings collected from around Japan, like the impressive 550 year-old Tomyoji Pagoda. Changing dramatically each season, the garden is festooned with plenty of plum and cherry blossoms, and vibrant flowers. Take in all the sights with a cup of freshly-made matcha at the teahouse.



Chinatown

Adjacent to Motomachi is Japan's largest Chinatown, which is filled with souvenirs shops, street food hawkers and affordable restaurants – a great place to try unique, Japanese-style Chinese food. The nearby Trick Art Museum is a great place to be amazed, with crazy art pieces that will dazzle your eyes and jumble your brain.



Orbi Yokohama

Orbi combines SEGA's hi-tech gaming technology with BBC Nature's knowhow to create a nature-themed amusement park. Its huge screens and simulators take you across 8 experience zones (from the African Savannah to the -20°C Antarctica) as part of its 'Animalpedia', letting you interact with life-sized projections of animals. There's also a theatre and an organic café.



Shin Yokohama Ramen Museum

More than just a food-themed amusement park, the museum lets you sample noodles from around Japan, with displays on how it's all made. There're 9 different ramen restaurants in the museum's "streets" (which is modeled to look like 1950s Tokyo) with over 28 different flavours. There's even halal (non-pork) and vegetarian options!



This issue, Campus Magazine gave away a fantastic trip for 2 to Yokohama, Japan – and here are the exciting sites, sounds and tastes that winners Ang Yu Ting and Sim Kok Tiong experienced!

Yokohama Royal Park Hotel

Located in the heart of Yokohama, the hotel is attached to a shopping mall & close to a train station, making it an ideal base. Plus, occupying the high floors of Landmark Tower, it has a spectacular view of Yokohama harbour, the vibrant city lights, and on a clear day – Mount Fuji.



Motomachi

Motomachi is a five-block long stretch of trendy boutiques and shops. Known for its assortment of fashion stores with hints of Western influence, a walk through Motomachi makes it tough not to want to buy a little something (or two!).



Hello Kitty Café Restaurant

A short walk from Motomachi, the Hello Kitty Café Restaurant is a must for any fan of Japan's favourite feline. Decked out in everything Hello Kitty, the eatery even has friendly, kawaii waitresses. Known for its apple pie, the café has also latte artists that will make you adorable Hello Kitty lattes with amazing feline-3D art.

Cup Noodles Museum

The CUPNOODLES MUSEUM is more than just eating – it showcases the innovation behind the iconic food and visitors can customise their own noodles, from the packaging right down to the soup and toppings at the My CUPNOODLES Factory. You can also learn to make Chicken Ramen from scratch, or simply dine on noodles from around the world at their in-house bazaar.



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YOKOHAMA ROYAL PARK HOTEL



COMICS MANGA

contributed by Lim Yen Siu

As any serious fan already knows, when it comes to comics – there are two major types out there: Western (like DC, Marvel etc.) and Japanese manga.

SIZE

The most obvious difference between manga and comics is their size.

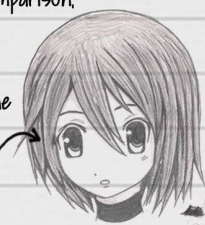
Western comics started off as 17 x 26 cm paperbacks, although these days you can get both paperback and hardcover versions ranging from 50-100+ pages. By comparison, most Japanese manga are usually paperbacks printed in half the size (making them very portable), often running to 100+ pages.



STYLE

As you'd expect, Western comics are read front to back, left to right. In comparison, manga are written back to front and read top to bottom.

Western comics are normally done in full colour, while manga are predominantly printed in black and white.



AUDIENCE

In terms of writing style, Western comics often appeal mostly to teen cum young adults – even though the genre is varied – thanks to the language style and content.

Manga has a very wide audience, from young children to retirees, as genres and language style are very wide-ranging (from wine appreciation to Doraemon).

While comic book fans are often considered 'nerds', manga-reading in Japan is as common among different age groups as reading the newspaper.

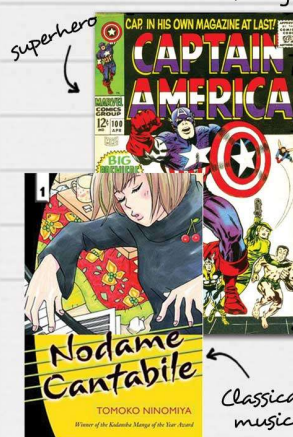


PLOT

While there is plenty of similarity in plots between comics and manga, the difference lies in their popularity. In Japan, there is almost no topic that manga doesn't cover. From competitive bakers to classical music, manga about these can be considered

'mainstream'. In comics, the dominant style is the superhero or action genre, which has dominated the US since the 1960s.

Although this isn't universal, there is no true 'heroine' in manga, even though they may appear strong, there is always an inherent weakness that often necessitates the help of men. Conversely, in Western comics the damsel in distress storyline has been largely relegated to the pages of history. Also, crossovers of title heroes often happen in superhero comics (ie. Batman Superman), but not in manga.



Classical music

And while you no doubt already know your Silver Surfer from your One Piece, here's a quick guide to the inner workings of each style.

CHARACTERS

Maybe the most obvious difference between Western and Japanese comics is the way the characters are drawn.

In Western comics, characters are carefully drawn, then dutifully rendered in all their accurate, coloured glory page after page. The lines are often neat and clearly inked.

In manga, there are 2 main forms for most characters: normal and chibi ("mini"). Even serious characters can suddenly turn chibi when conveying emotions like embarrassment or envy. Also, many popular titles aren't exactly what you'd call "well rendered".

Superheroes are usually more muscular



Manga heroes are decidedly slimmer



When it comes to depicting 'heroes', the men in comics are often portrayed as muscle-bound and mostly on the beefy side. In manga's shounen genre, the heroic men, while muscular, are decidedly slimmer.

When it comes to depicting women, both comic and manga portray them with roughly the same body proportions (although in manga, the legs tend to be exaggerated). The major difference is usually in the face: manga eyes are often 1/3 the size of the face, not so in Western comics.

PUBLICATION

Manga chapters are often serialised in weekly/monthly magazines (ie. Shounen Jump) – which include works from other artists – chapter by chapter. These chapters are then compiled into a tankoubon "book". Popular titles will have a series, some of which run to hundreds of volumes (ie. Naruto, Bleach, etc) and will only ever be produced by the original artist.

In contrast, comics are sold weekly or monthly as standalone issues from the start, with popular titles having multiple issues out at a time. Titles (ie. Superman) may be produced by many different authors and artists and have different plots, as well as crossovers with other titles (ie. Avengers). Popular titles may have alternative options for cover art designed by various artists.

Reading a manga (following a visual storyline) is fairly easy, as there's fast story progression. Comics often involve heavier dialogue and busier art, and allow you to appreciate the work at a slower pace.



FAILED SUPERHEROES

BY KIAT TAN WEIJIE

There are superheroes that can rip through metal or run faster than the speed of light, and then there are those that are blessed with abilities that will have you scratching

your head. Not all superheroes are made to be adored, and we've compiled a bunch of them that will have you wondering what made the writers create them in the first place.

ARM-FALL-OFF BOY (DC COMICS)

As the name suggests, Arm-fall-off boy is bestowed with the power of detaching his arms and using it as a melee weapon. So when it comes to fighting the bad guys, he detaches one arm and uses the other to land a hit or fend off. Even with his superhero status, he was turned down by the Legion of Superheroes (a superhero team in DC universe) as they felt that his powers weren't just up to par.



SQUIRREL GIRL (MARVEL COMICS)

Squirrel Girl started her superhero career at 14 wanting to be Iron Man's sidekick. To prove her worth, she defeated Iron Man's arch-nemesis, Doctor Doom by attacking him with her squirrel army. She has defeated other A-list superheroes such as Wolverine in hand-to-hand combat too, so maybe being a squirrel is not that useless after all.



RAZORBACK (MARVEL COMICS)

At first glance, Razorback looks like a pig on steroids; however, the superhero is actually a muscular trucker who fights crime by... donning a wild boar cowl. While he can charge at you like a wild boar, Razorback's paramount ability is that he can virtually operate any mode of transport, including a spacecraft (pigs in space?). This odd-looking vigilante also has an electrified mane, which presumably is off while he's driving.



BOUNCING BOY (DC COMICS)

Bouncing Boy literally inflates himself into a giant beach ball and attacks his enemies by bouncing on them. Apparently, Bouncing Boy inherited his powers by downing a liquid-form of plastic formula, which he mistook for soda pop. While he was initially well-received due to the comical nature of his power in 1961, his popularity eventually flattened.



COLOUR KID (DC COMICS)

Another failed applicant that tried for the Legion of Superheroes is Color Kid. Having the ability to change the color of objects like changing the color of the sky and ground to confuse his enemies, Colour Kid's fate took a turn when he was given the title Color Queen after being exposed to a germ released by Infectious Lass - a female superhero that releases contagious diseases.



STARFOX (MARVEL COMICS)

The lothario of the Marvel universe, Starfox has the usual superhero abilities like superhuman strength, stamina and agility, but he prefers working on his one strength - attracting women. Also able speak over 500 extraterrestrial languages, this cunning linguist is always seen seducing anything that walks in a skirt; a hedonistic life that has resulted in many male superheroes wanting to knock his lights out.



STRESS RELIEF

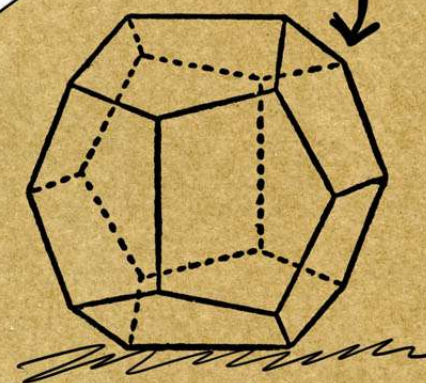
It's the end of the year and if you're running out of ideas on what (free) things to give your friends for the festive holidays, you can try giving them a gift that lasts for at least one entire year: yup, a CALENDAR! It's cheap, and you can claim it's handmade (your friends will be amazed... at the fact you can do things with your hands).

INSTRUCTIONS

1. Cut out the item in white
2. Photocopy a larger version if you need bifocals to read it
3. Cut along the straight lines, and crease along the dotted lines
4. Use your art/gaming/geometry skills to fold it into a dodecahedron (Google it if you don't know what it is)



It should look roughly like this



You can proudly place it on your desktop!





MEET SOME OF KAPLAN'S
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*SUBJECT TO MEETING ENTRY
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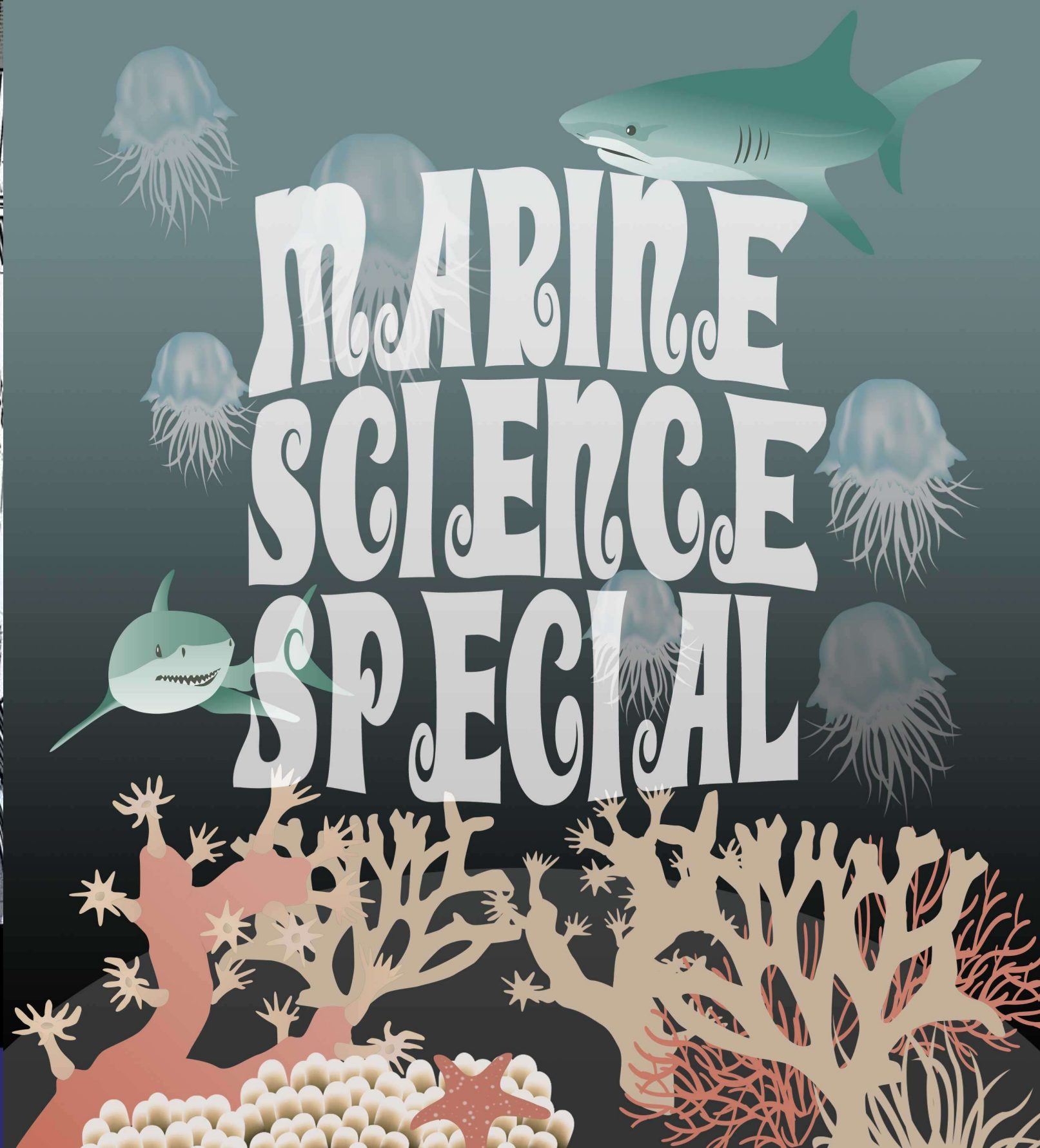


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**MARINE
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OCEAN IN DANGER

WHY MARINE SCIENCE IS MORE IMPORTANT THAN YOU THINK

ALIEN INVADERS

What: Nomura jellyfish swarm
Why it matters: Jellyfish have already decimated the Black Sea's billion-dollar industry and Ireland's salmon farms, and now Japan's feeling the pressure from the Nomura.

At this very moment, Japan's oceans are silently being invaded by giant, floating aliens: the Nomura jellyfish.

These 200kg monsters are nothing new, and massive invasions or "blooms" (with hundreds of thousands seen at a time) would only happen once in a lifetime. However these days, Nomura are now an annual threat.

In their wake, they devour huge amounts of plankton, the cornerstone of the marine food chain, decimating entire fish populations. They are the bane of Japanese fishermen; they poison any fish they touch, and at 200kg, accidentally netting just a few can capsize a fishing boat.

They also clog and destroy machines, disabling everything from water filtration systems to a nuclear power plant's cooling system. It sounds unbelievable, but with possible scenarios of Nomura population explosions, it's plausible they could destroy the world's marine ecosystem as we know it.



The invasive Nomura jellyfish destroys fish populations



EMPTY OCEANS

What: Overfishing
Why it matters: Overfishing + food wastage could lead to shortage of supply, higher prices and the collapse of marine life.

Globally, 25% of fishing grounds are already exhausted. And yet the global fishing industry as a whole is so poorly run and regulated, that to get 1kg of shrimp to your table, 10kg of marine life is caught, killed and discarded – constituting just part of the 27,000,000 tonnes of fish we waste annually.



Keeping only the fin

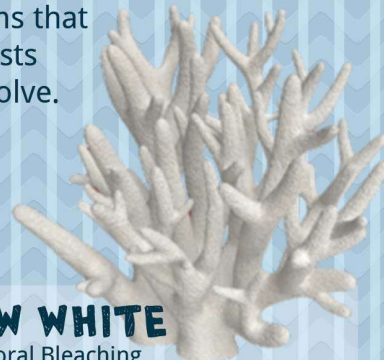
A high-profile case of population collapse is the killing of millions of sharks (using just the fins and discarding the body) simply to make soup, a practice which reduces the apex predators of the ocean, and causes the death of many coral reefs. Or eco tragedies like the over-fishing of the Patagonian toothfish into actual extinction in just 2 short years. Gone are the days when sustainable fishing is practised, as in the case of the dwindling Ama-chan divers of Japan who catch seafood without the aid of an air supply – their approach to fishing will soon go extinct with the last of the working women.

With our global population on the rise, how do we manage the ocean population to sustain and feed us for the long run? Good question.



The Patagonian toothfish – extinct in just 2 years

The marine world is in peril – from the attack of Nomura jellyfish swarms to overfishing and coral bleaching – putting the underwater ecosystem at risk. If you think only affects ocean-goers, think again. These are just some of the problems that marine scientists are trying to solve.



SNOW WHITE

What: Coral Bleaching
Why it matters: Coral protects shorelines and could provide the next medical breakthrough.

Coral reefs are the richest, most vibrant ecosystem in our oceans and are in fact huge, living underwater cities. The colours you see are the algae that live in their tissues – without them, corals would turn 'bleached' or white, which leave them very vulnerable.

When temperatures rise or fall according to normal weather patterns – like El Nino and La Nina – bleaching happens. With global warming, the bleaching becomes erratic and can affect marine life and the fishing industry (and all who eat seafood) that depend on it. Without coral reefs, there would be no shoreline buffer against waves, storms and floods; it even leads to coral litter on beaches, meaning countries that survive on beach tourism would be hit hard.

Together with melting ice, rising waters and super-storms, coral bleaching is one of the most devastating side effects of global warming on our seas.

Global warming causes coral bleaching



WHAT LIES BENEATH

Icy cold, pitch black and largely unexplored, the harsh deep sea is no playground for humans but it is definitely home ground for some of the most bizarre animals. With physical characteristics like glowing eyes, oddly long tentacles or even razor-sharp fangs, it is hard to believe that these animals exist but they actually do, and some of them even have roots dating back to prehistoric times.



FRILLED SHARK (*Chlamydoselachus anguineus*)

This eel-like fish has its ancestors tracing back to the days dinosaurs walked the earth. The Frilled Shark, which can be found in the depths of 1.5km and grow up to 2m long, got its name from the frill-like gills that cover its sides – which is said to look like a ruffled pirate collar. Feeding on squid, fishes and other smaller sharks, the Frilled Shark can be found in Pacific Ocean and some parts of Atlantic Ocean.



BARRELEYE (*Macropinna microstoma*)

Also known as the Spookfish, the barreleye comes with a transparent head and tubular eyes, which allows it to rotate its eyes within the socket, giving this fish the advantage to scout for its prey – like tiny jellyfish and crustaceans – from any angle. Inhabiting the depths of over 1km where darkness reigns, this ghostly-looking fish (which are no longer than 20cm) can be found specifically in the Pacific Ocean.

GIANT TUBE WORM (*Riftia pachyptila*)

Alternatively known as 'black smokers' because of the dark ink-like substance they eject, the giant tube worms – which reside in Pacific Ocean – can grow up to 2m and have no digestive tracts or mouths. Sharing a symbiotic relationship with the bacteria living inside them by depending on them for food, the worms reproduce by releasing their eggs into the water to be fertilised, after which the young larvae swims back down and attaches itself to rocks.

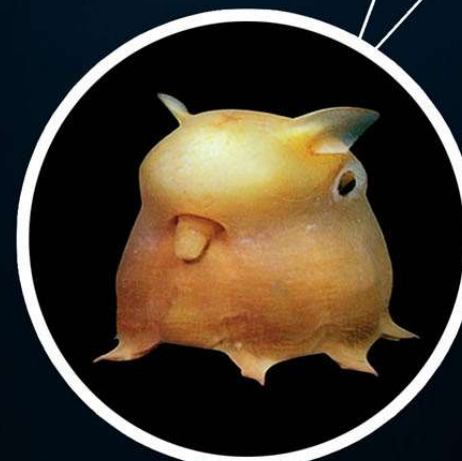


VIPER FISH (*Chauliodus sloani*)

Looking like it stepped out of the Alien vs Predator flick, the viperfish is easily recognised from its needle-like fangs that protrude from the edge of its mouth. Trolling the depths of over 4km, this savage-looking fish reaches lengths of up to 60cm, and attracts its prey by emitting light from its belly. Feeding mainly on crustaceans and small fish, the viperfish is native to the northern Pacific Ocean and its body colour ranges from black and blue to green.

DUMBO OCTOPUS (*Grimpoteuthis*)

Not as grody looking as other deep-sea creatures, the Dumbo Octopus has over 30 species that range from 20cm to 2m. Living at depths of 7km, the dumbo octopus hovers over the seabed feeding on small crustaceans and worms. It gets around by flapping its elephant ear-like fins, and when the dainty octopus is attacked, it thrusts its tentacles forward and shoots out a jet of water. Found in most oceans, the dumbo octopus is probably the deep sea's cutest denizen.



BLOBFISH (*Psychrolutes microporos*)

Found largely in the deep seas of Australia and New Zealand, the football-sized blobfish is a rare species that can be found inhabiting the depths of 800m. Due to the pressure found in these depths, this sad-faced fish does not require muscle, so instead it looks like a blob of gelatinous mess. Hovering just above the seafloor, the blobfish feeds on crabs and sea pens by leaving its mouth open to let these critters drift in.

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With an increasing focus on the role of oceans to provide food, pharmaceuticals and resources for our growing populations, the next generation of marine scientists will play a major part in ensuring we protect and manage our oceans. Careers range from marine biology to fishery management, oceanography and even biomedical science.

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UQ's Heron Island Research Station

WORLD-CLASS MARINE SCIENCE RESEARCH

Using UQ's significant marine and laboratory research infrastructure, UQ scientists tackle a broad range of marine science issues. They also contribute to teaching and learning at undergraduate and postgraduate levels.

PROFESSOR CRAIG FRANKLIN

What: Salt water crocodiles
Why: Monitoring of crocodiles with remote sensing technology to track movement patterns and responses to changing environmental conditions.



PROFESSOR JUSTIN MARSHALL

What: Mantis shrimps
Why: Investigation of the unique visual system of mantis shrimps, cuttlefish, lungfish and other deep sea animals.
www.uq.edu.au/ecovis



ASSOCIATE PROFESSOR BRYAN FRY

What: Seasnakes
Why: Exploring novel toxins from venomous snakes (including sea snakes) for use as lead compounds in drug design and development.



ASSOCIATE PROFESSOR IAN TIBBETTS

What: Marine grazers
Why: Discovering the role herbivorous fish and invertebrates play in maintaining the balance between slower growing corals and faster growing algae.



DR. KATHY TOWNSEND

What: Marine turtles
Why: Investigating the effects of plastic waste on endangered marine turtles to inform future environmental policies on sea discharge of waste.

STUDYING MARINE SCIENCE AT UQ

UQ's Bachelor of Science (Marine Science major) will allow you to study a wide range of marine disciplines – from physical and molecular science and engineering through to ecology, nature conservation and global change science.

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- planning and management
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- the fishing industry
- universities & marine science institutes
- wildlife conservation

Marine-based industries are worth more than \$16 billion annually and offer broad scope in the variety of job opportunities available to graduates.

TAKING ON THE BIG ISSUES

As the global population climbs towards 8 billion, solutions need to be found for immediate problems such as food production, disease control and more efficient use of water, fertiliser and fuel.

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UNIVERSITIES AUSTRALIA



UNIVERSITAS

GROUP OF EIGHT

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Photo: UQ's Heron Island Research Station by Bluedog Photography.

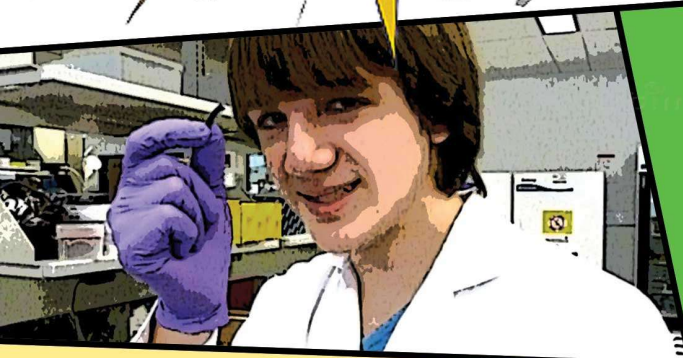
YOUNG SUPERHEROES OF SCIENCE

You may have heard about scientists who've invented life-saving devices, discovered alternative fuel sources or made the internet a better place to surf, but you may be surprised to find that many of these scientists made it big before they were even out of their teens.

JACK ANDRAKA (16 years old)

An average teen who loves to kayak, Jack's invented a revolutionary test for pancreatic cancer that's 168 times faster, 26,000% cheaper and more accurate than any test on the market. It's one of the toughest cancers to detect - it's what killed Steve Jobs - and there's a 1 in 70 chance you can get it.

At age 14, he wrote to 200 different research labs with his theory of using nanotubes to detect cancer cells, and got rejected by 199 labs before Johns Hopkins said yes. He then interned nights, weekends and holidays for months to finish his invention, which could be in the market in the next 5-10 years.



ISHA JAIN (22 years old)

Isha was mapping the chemical structures of candy before the age of ten; a breakthrough experiment which is now used in secondary school chemistry lectures around the world.

By age 16, she had published 6 scientific papers, won a \$100,000 research grant after determining the cause of rapid bone-growth spurts, and was consulting Harvard University on its Symposium for the Advancement of Women in Science. Today, at age 20, she's one of the most promising young scientists in the world, as well as an accomplished dancer, nationwide beauty pageant winner and avid athlete.



PEYTON ROBERTSON (11 years old)

At only 11 years old, Peyton Robertson's revolutionised the humble sand bag. Incredibly useful in an emergency flood, they're traditionally heavy (18kg) and hard to transport.

Peyton's sandbags are filled with a mixture of salt and polymer - the recipe of which he tested at beaches and bathtubs until he achieved a ratio that weighs 2kg when dry but expand to 15kg when wet. Plus, his bags are designed to interlock with each other, thus creating a seamless barrier. And when the bags are dry, they can be reused again. As a tournament golfer, he has also invented a golf ball warming device for golfing in colder weather.



SARA VOLZ (17 years old)

By age 17, Sara Volz had figured out how to generate biofuel from the oils in algae by growing them in glass flasks under her bed.

This technology may save millions of hectares of rainforest from being cut to make way for so-called "biofuels" (algae can be grown in areas not used in agriculture), and it can also be grown using wastewater while absorbing large amounts of carbon dioxide, thus reducing the impacts of climate change while powering vehicles of the future.



LUIS VON AHN (27 years old)

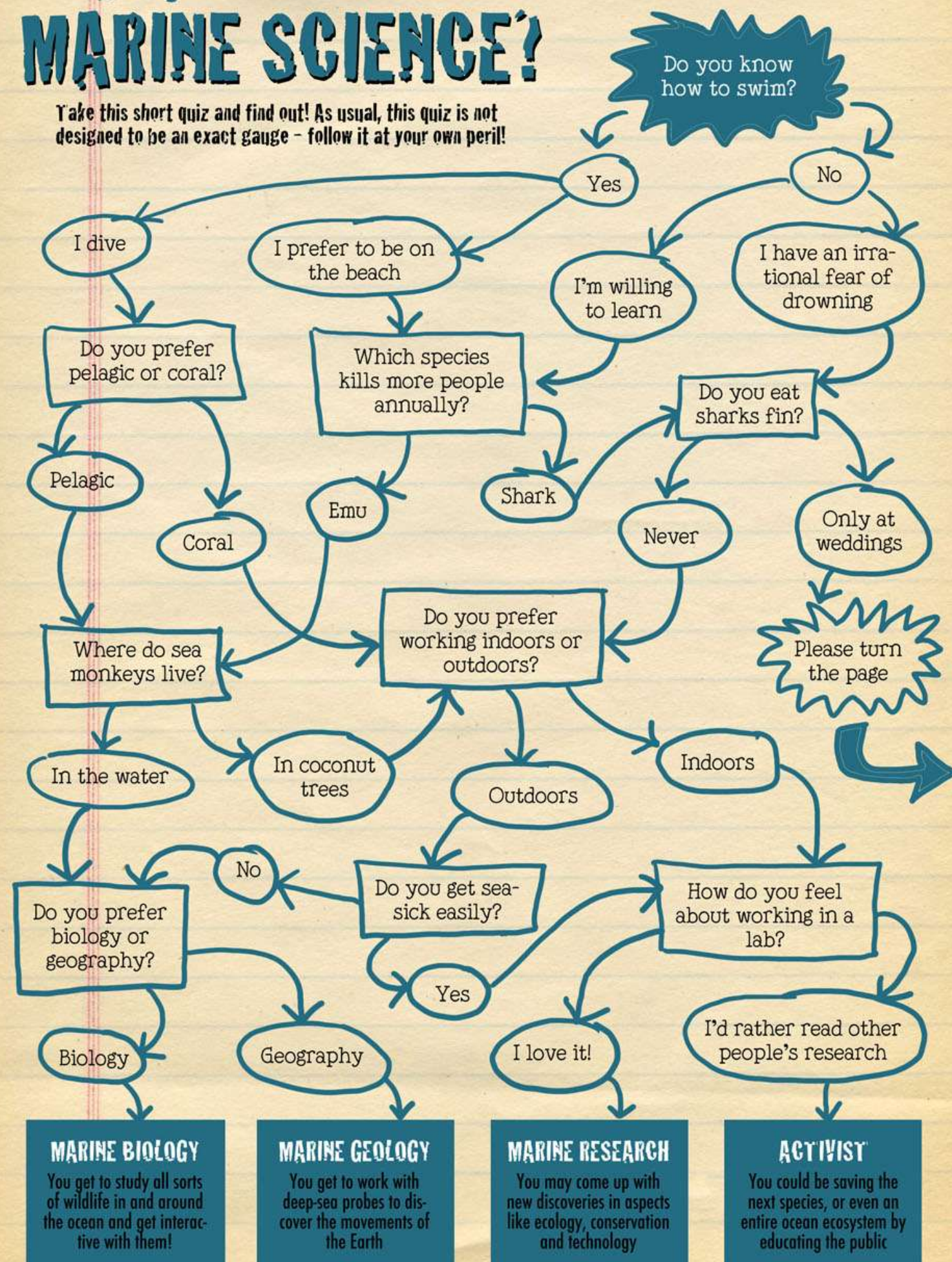
At age 27, millionaire-entrepreneur and Carnegie Mellon Professor Luis von Ahn developed scientific ways to crowd-source answers from humans for problems that are too complex or subtle for computers to solve.

For example, how do you accurately label every single image on the internet so you can do a more accurate Google search, when even super-computers can't understand what differentiates a #funnycatpicture from a dud? You make it into a game for people to join. Wanna play? Check out espgame.org.



Are you cut out for MARINE SCIENCE?

Take this short quiz and find out! As usual, this quiz is not designed to be an exact gauge - follow it at your own peril!



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- Alfa Romeo Young Designer 2012
- Graduate Fashion Week, Gold Award Winner 2011

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