



- MOVIES: THE HIGHWAYMEN
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- MUSIC: RATED PG BY PETER GABRIEL
- LIFESTYLE: WHEN PEOPLE DOWNSIZE TO TINY HOUSES

# times Extra

weekend Guide

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# WORLD

**There are notable differences in health research findings on tobacco and marijuana. The juxtaposition strikes some as jarring after generations of people have gotten the message that smoking endangers their health**

NEWS OF THE WORLD

Jennifer Peltz, AP

As more states make it legal to smoke marijuana, some government officials, researchers and others worry what that might mean for one of the country's biggest public health successes: curbing cigarette smoking.

"We're trying to stop people from smoking all kinds of things. Why do you want to legalize marijuana?" a New York City councilman, Republican Peter Koo, asked at a recent city hearing about the state's potential legalization of so-called recreational pot use.

Marijuana advocates say there's no comparison between joints and tobacco cigarettes. A sweeping federal assessment of marijuana research found the lung-health risks of smoking weed appear "relatively small" and "far lower than those of smoking tobacco," the top cause of preventable death in the U.S.

Unlike for cigarettes, there's evidence of certain health benefits from marijuana, such as easing chronic pain. And marijuana can be used without smoking it. Most states now have legal medical pot programs; 10 states and the District of Columbia have approved recreational use.

"They're different products, and they need to be treated differently," says Mason Tvert, a spokesman for the pro-legalization Marijuana Policy Project.

At the same time, studies have shown crossover between mari-

# Smoking pot vs. tobacco: What

juana and tobacco use. And while smoking cannabis may be less dangerous than tobacco to lung health, pot doesn't get an entirely clean slate.

Some health officials and anti-smoking activists also worry about inserting legal marijuana into the growing world of vaping, given uncertainties about the smoking alternative's long-term effects.

## SMOKING POT VS. TOBACCO

While cigarette smoking is the top risk factor for lung cancer, some of scientific evidence suggests there's no link between marijuana smoking and lung cancer. That's according to a 2017 federal report that rounded up nearly two decades of studies on marijuana, research that's been limited by the federal government's classification of marijuana as a controlled substance like heroin.

While cigarette smoking is a major cause of heart disease, the report concluded it's unclear whether marijuana use is associated with heart attacks or strokes.

But there's strong evidence linking long-term cannabis smoking to worse coughs and more frequent bouts of chronic bronchitis,



according to the report from the National Academies of Sciences, Engineering and Medicine.

The report also looked at other effects, finding a mix of possible risks, upsides and unknowns. For example, the report said marijuana can ease chemotherapy-related nausea and adults' chronic pain

but also found evidence the drug is linked to developing schizophrenia and getting in traffic crashes.

In recent weeks, studies have echoed concerns about high-potency pot and psychosis and documented a rise in marijuana-related emergency room visits after legalization in Colorado.

Tobacco and marijuana use can also go together. Blunts — marijuana in a cigar wrapper that includes tobacco leaves — have gained popularity. And studies have found more cigarette smokers have used pot, and the other way around, compared to non-smokers.

DRIVE IN

Mark Kennedy, AP Entertainment Writer

## HAPPY HUNTING BONNIE AND CLYDE IN 'THE HIGHWAYMEN'

It's hard to begin watching the Netflix movie "The Highwaymen" and not think about the way it will inevitably end — in a famous ambush and a hail of bullets.

That's what happened to Bonnie Parker and Clyde Barrow on May 23, 1934, the day the law finally caught up to the couple who had spent years on a multi-state murder spree.

For film fans of a certain age, we've practically seen the fatal ambush. "The Highwaymen" is haunted by the 1967 film "Bonnie and Clyde," which had at its final scene a torrent of gunfire riddling Faye Dunaway and Warren Beatty.

That film romanticized the criminal duo who killed 13, and their fatal ambush seemed less like a necessary law enforcement action than a gutless slaying. Now, 52 years later, comes the reverse view with "The Highwaymen," screenwriter John Fusco's tale of how two handkerchief-wiping, retired Texas Rangers tracked them down. If Bonnie and Clyde were

the heroes of director Arthur Penn's 1967 film, lawmen Frank Hamer (Kevin Costner) and Maney Gault (Woody Harrelson) are the ones here — gruff, taciturn and hard-nosed officers. Director John Lee Hancock is so unwilling to glamorize the young outlaws that he virtually never focuses his camera on Bonnie and Clyde, instead using dreamlike filters or odd angles.

Like its predecessor, there's lots of cultural commentary going on in the moody and enjoyable Netflix take — issues of criminal determinism, ageism, poverty, moral compromising and, of course, celebrity.

A cult sprang up around Bonnie and Clyde — including women aping Bonnie's fashion — and fans gland-handed the pair like movie stars. Harrelson's character notes that while talent used to lead to fame, "now you just shoot people."

There's a throw-back, Western feel to the film, with its flabby, creaky heroes begged to come out of retirement,

just this once, to hunt down the killers, only to endure guff by the new generation for their old-fashioned methods.

"Your time has past, cowboy," one young officer tells them, revealing that law enforcement has become addicted to wire taps and aerial surveillance. Instead, Hamer and Gault have their gut instincts and tested skills, like looking at footprints in dirt. Hamer knows where to find the duo: "Outlaws and mustangs always come home," he says.

The film has been gestating so long that it was once going to star Robert Redford and Paul Newman, which raises all kinds of nostalgia issues. (Think about the leads of "Butch Cassidy and the Sundance Kid" and "The Sting" donning fedoras and dark suits, getting into Depression-era Fords and fighting on the OTHER side of the law).

Costner plays his Hamer like a classic Costner role; silent and focused, with a moral charisma and a sly hint of



From left, Woody Harrelson, Kevin Costner and Thomas Mann in a scene from "The Highwaymen"

sweetness underneath the grumpy exterior. Harrelson turns in another fine performance, just the kind of sassy, good ol' boy you'd want next to you on a stakeout. "I'm above ground and ready to go," he tells his partner. They're a great odd couple. The script at times tries too hard — "There's always blood at the end of the road" is one clunky line — and lingers a little too much on symbols (like greyhound hood ornaments). There's a very

evocative score by Thomas Newman and Hancock's style is cool and unrushed, letting the miles of highway roll and making his action sequences feel all the more electric when they occur.

Now, when it comes to the end, this film describes the final shoot-out in a very different way than "Bonnie and Clyde." (Hint, the cops had some honor.) The film often feels in many ways as an attempt to correct history, or at least the previous Dunaway-

-Beatty-led portrayal of a bumbling Hamer.

But there are moments of beautiful stillness and nicely-filmed sequences — like a nifty car chase in dust clouds — that make the hunt enjoyable. You'll know how it ends, but this time things are different: The good guys win.

"The Highwaymen," a Netflix release, is rated R for violence and language. Running time: 132 minutes. ★★★★★

# science says about lighting up



“One substance reinforces the use of the other, and vice versa, which can escalate a path to addiction,” says Dr. Sterling McPherson, a University of Washington medical professor studying marijuana and tobacco use among teens. The National Academies report found pot use likely increases the

risk of dependence on other substances, including tobacco. To some public health officials, it makes sense to legalize marijuana and put some guardrails around it. “For tobacco, we know that it’s inherently dangerous and that there is no safe amount of tobacco to use,” says New York City Health

Department drug policy analyst Rebecca Giglio. Whereas with marijuana, “we see this as an opportunity to address the harms of criminalization while also regulating cannabis.” But health department opinions vary, even within the same state: New York’s Association of County

Health Officials opposes legalizing recreational weed.

Vaping — heating a solution into a vapor and inhaling it — has been pitched as a safer alternative to smoking.

Experts have said vaping pot is probably less harmful to the lungs than smoking it, though there’s little research on the health effects over time, and they worry about its potency when vaped.

The American Lung Association is concerned that vaping will ultimately prove damaging to lung health and is alarmed about a surge in underage e-cigarette use. And adding legal marijuana to the picture “only makes it a more complicated issue,” says Erika Sward, an assistant vice president. Others, though, think policymakers should view vaping as a relatively safe way to use pot.

“I would say the risks are going to be less with that form of consumption,” says Rebecca Haffajee, a University of Michigan health policy professor who co-wrote a 2017 piece calling for recreational marijuana programs to allow only nonsmokable forms of the drug. Meanwhile, some local governments have adjusted public smoking bans to cover both vaping and pot. The Los Angeles County

Board of Supervisors tweaked its prohibition just last month.

## TWO VIEWS

As a former cigarette smoker, New Yorker Gary Smith is dismayed that his home state might OK smoking pot.

He knows research hasn’t tied smoking marijuana to lung cancer, which killed three cigarette smokers in his family and struck him 20 years after he quit; he’s been treated. But he fears the respiratory risks of marijuana smoking aren’t fully known.

“It’s crazy that the government, in order to raise (revenue from) taxes, they’re permitting people to suck this stuff into your lungs,” says Smith, 78, an accountant from Island Park.

Hawaii physician and state Rep. Richard Creagan feels no less strongly about cigarettes. The ex-smoker and Democrat from Naalehu this year unsuccessfully proposed all but banning them by raising the legal age to 100.

Meanwhile, he’d like Hawaii to legalize recreational marijuana, an idea that fizzled in the state Legislature this year.

Creagan, 73, thinks pot benefits people’s well-being more than it risks their health, and he expects non-smoking alternatives will reduce the risks. Plus, he figures legal marijuana could replace cigarette tax revenue someday.

“That coupling,” he says, “was sort of in my head.”

## BOOK IT

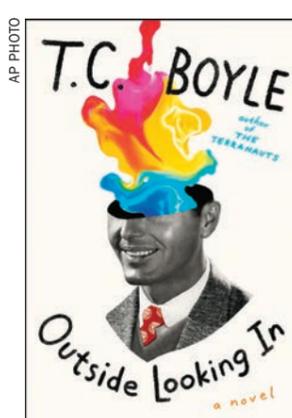
### T.C. BOYLE SPINS A FAMILY DRAMA FROM THE LSD ERA

Just as he did in his last novel about scientists inhabiting Arizona’s Biosphere 2 in the 1990’s (“The Terranauts”), T.C. Boyle’s latest takes a real-world event — Harvard psychologist Timothy Leary’s LSD experiments in the 1960’s — and imagines some of the people who went along for the trip.

Meet the Loneys: Grad student Fitzhugh, his wife, Joanie, and their son, Corey. Seeking to ingratiate himself in Harvard’s psych department, Fitz convinces Joanie to attend one of Dr. Leary’s “sessions” at his home. Before they know it they’re swallowing a “beginner’s dose” (20 milligrams) of psilocybin, a precursor to LSD. And before they know that, they’re having the best sex of their lives and apologizing to the babysitter for being so late. The story moves fast from there. From Newton, Massachusetts, to Zihuatanejo, Mexico, and finally to Millbrook, New York, the Loneys immerse themselves in

Leary’s communes, altering their minds regularly and testing the limits of what it means to be a family. The historical references may intrigue some readers and thankfully there’s Google for that. But the heart of the story is the Loney family. As their drug dependencies deepen, husband and wife move in opposite directions — Fitz starts being convinced that Leary is on the cutting edge of science, while Joanie appreciates the intimacy LSD creates after 13 years of marriage. Three-hundred pages later, nothing is what it was and Boyle’s writing doesn’t provide much hope for the family’s future.

“Nothing quite fit right, as if the world were a suit of clothes that had shrunk in the dryer and had to be pinched and tugged till it stretched back out again,” writes Boyle after Fitz comes down from a week-long trip sequestered with a teenage girl in a Millbrook cottage. The novel poses some interesting questions about



“Outside Looking In” (Ecco) by T.C. Boyle

the nature of belief and the very existence of God, but like the hallucinations they sprout from, the questions dissolve as the drug’s effects dissipate. What Boyle leaves us with, instead, is a cautionary tale. No matter how hard humans try, we can’t escape the messy realities of life in a world where there are rules of behavior and consequences for those who don’t follow them.

Rob Merrill, AP

## TTUNES

### PETER GABRIEL’S SKILL WITH FILM SONGS STARS ON ALBUM

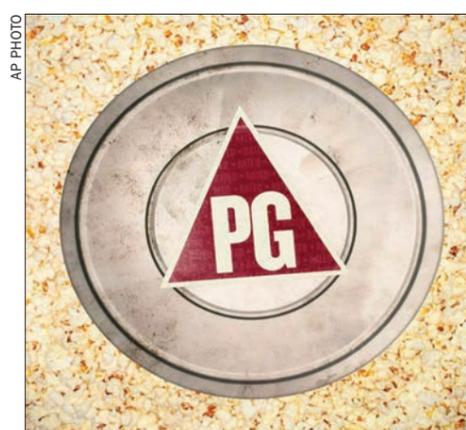
If you’re a fan of Peter Gabriel, you probably know his popular hits like “Sledgehammer” and “Big Time,” as well as maybe some older classics like “Games Without Frontiers.”

But even the most rabid of fans might not know Gabriel recorded music for the 2012 political drama “The Reluctant Fundamentalist.” Or put a gem of a song in the 2017 animated film “Birds Like Us.”

For those fans — and a reminder to everyone else of Gabriel’s impressive sonic mutability — comes “Rated PG,” a collection of 10 songs he’s supplied for films.

Because each tune is married to its movie — from dark dramas to cute animated movies, all spanning decades — coherence is not baked into the new album. But as a showcase for a singular artist, it’s a welcome trip.

Some of the songs are well-known, like “In Your Eyes,” which is familiar thanks to John Cusack blasting it from a boombox in “Say Anything,” or the anthemic “Down to Earth” from “Wall-E.” Others are welcome reminders



Peter Gabriel, “Rated PG” (Real World)

of gems trapped in celluloid, like the frightening duet with Nusrat Fateh Ali Khan “Taboo” from “Natural Born Killers” or the addictive “Walk Through the Fire” from “Against All Odds.”

But “Rated PG” also resurrects lost tracks that outshined their films, like “This Is Party Man” from the forgettable

1995 Denzel Washington flick “Virtuosity” or the dark and slinky, previously unreleased “Nocturnal” from 2001’s “Les Morsures de l’Aube.”

Gabriel superfans will finally get their hands on that track, as well as “Speak (Bol),” which never made the official soundtrack for “The Reluctant Fundamentalist”; “That’ll Do,” a Randy Newman song that ended up on “Babe 2: Pig in the City”; as well as new edits of previously released songs.

So rich is Gabriel’s catalogue that he hasn’t added tracks from his own soundtracks, like the ones he did for Alan Parker’s “Birdy” or Martin Scorsese’s “The Last Temptation of Christ.”

Mark Kennedy, AP Entertainment Writer

**LIFESTYLE**

Maria Saxton, Virginia Tech

Interest is surging in tiny homes – livable dwelling units that typically measure under 400 square feet. Much of this interest is driven by media coverage that claims that living in tiny homes is good for the planet. It may seem intuitively obvious that downsizing to a tiny home would reduce one’s environmental impact, since it means occupying a much smaller space and consuming fewer resources. But little research has been done to actually measure how people’s environmental behaviors change when they make this drastic move.

For my doctorate in environmental design and planning, I sought to fill this gap in knowledge by developing a study that could provide measurable evidence on how downsizing influences environmental impacts. First I surveyed 80 downsizers who had lived in tiny homes for a year or more, to calculate their ecological footprints in prior housing and current ecological footprints in their tiny

**WHEN PEOPLE DOWNSIZE TO TINY HOUSES, THEY ADOPT MORE**

houses. Then I conducted nine in-depth interviews to learn about behaviors that changed after downsizing. I found that among 80 tiny home downsizers located across the United States, ecological footprints were reduced by about 45% on average. Surprisingly, I found that downsizing can influence many parts of one’s lifestyle and reduce impacts on the environment in unexpected ways.

**THE UNSUSTAINABLE US HOUSING MODEL**

In recent decades, the building trend has been to “go big.” Newly constructed homes in the United States generally have a larger average square footage than in any other country in the world.

In 1973 the average newly constructed U.S. home measured 1,660 square feet. By 2017 that average had increased to 2,631 square feet – a 63% increase. This growth has harmed



DAN DAVID COOK/WIKIMEDIA, CC BY-SA

the environment in many ways, including loss of green space, increased air pollution and energy consumption, and ecosystem fragmentation, which can reduce biodiversity.

The concept of minimalist living has existed for centuries, but the modern tiny house movement became a trend only in the early 2000s, when one of the first tiny home building companies was founded. Tiny homes are an innovative housing approach that can reduce building material waste and excessive consumption. There is no universal definition for a tiny home, but they generally are small, efficient spaces that value quality over quantity.

People choose to downsize to tiny homes for many reasons. They may include living a more environmentally friendly lifestyle, simplifying their lives and possessions, becoming more mobile or achieving financial freedom, since tiny homes typically cost significantly less than the average American home.

Many assessments of the tiny-house movement have asserted without quantitative evidence that individuals who downsize to tiny homes will have a significantly lower environmental impact. On the other hand, some reviews hint that tiny home living may lend itself to unsustainable practices.

**UNDERSTANDING FOOTPRINT CHANGES**

This study examined tiny home downsizers’ environmental impacts by measuring their individual ecological footprints. This metric calculates human demand on nature by providing a measurement of current consumption behaviors.

To do this, I calculated their spatial footprints in terms of global hectares, considering housing, transportation, food, goods and services. For reference, one global hectare is equivalent to about 2.5 acres, or about the size of a single soccer field.

I found that among 80 tiny home downsizers located across the United States, the average ecological footprint was 3.87 global hectares, or about 9.5 acres. This means that it would require 9.5 acres to support that person’s lifestyle for one year. Before moving into tiny homes, these respon-

dents’ average footprint was 7.01 global hectares (17.3 acres). For comparison, the average American’s footprint is 8.4 global hectares, or 20.8 acres.

My most interesting finding was that housing was not the only component of participants’ ecological footprints that changed. On average, every major component of downsizers’ lifestyles, including food, transportation and consumption of goods and services, was positively influenced. As a whole, I found that after downsizing people were more likely to eat less energy-intensive food products and adopt more environmentally conscious eating habits, such as eating more locally and growing more of their own food. Participants traveled less by car, motorcycle, bus, train and airplane, and drove more fuel-efficient cars than they did before downsizing. They also purchased substantially fewer items, recycled more

**RESTAURANTS**

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VIP Hotel Lobby, MGM MACAU

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**SHANGHAI**

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Estrada da Vitoria  
T: 28552222

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Grande Praça, MGM MACAU



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06:30 - 22:00

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Opening Hours  
Dinner: 5:30 - 11:00



**VIDA RICA (RESTAURANT)**  
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**MORTON'S OF CHICAGO**  
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mortons.com  
• Bar  
Open daily at 3pm  
• Dining Room  
Monday - Saturday: 13:00 - 23:00  
Sunday: 17:00 - 22:00

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**ABA BAR**  
5pm - 12midnight  
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Grande Praça, MGM MACAU

**COPA STEAKHOUSE**  
3/F, Sands Macao Hotel  
OPENING HOURS:  
Cocktails: 4:30 pm - 12:00 am  
Dinner: 5:30 pm - 11:00 pm  
Tel: +853 8983 8222



**PASTRY BAR**  
10am - 8pm  
T: 8802 2324  
Level 1, MGM MACAU

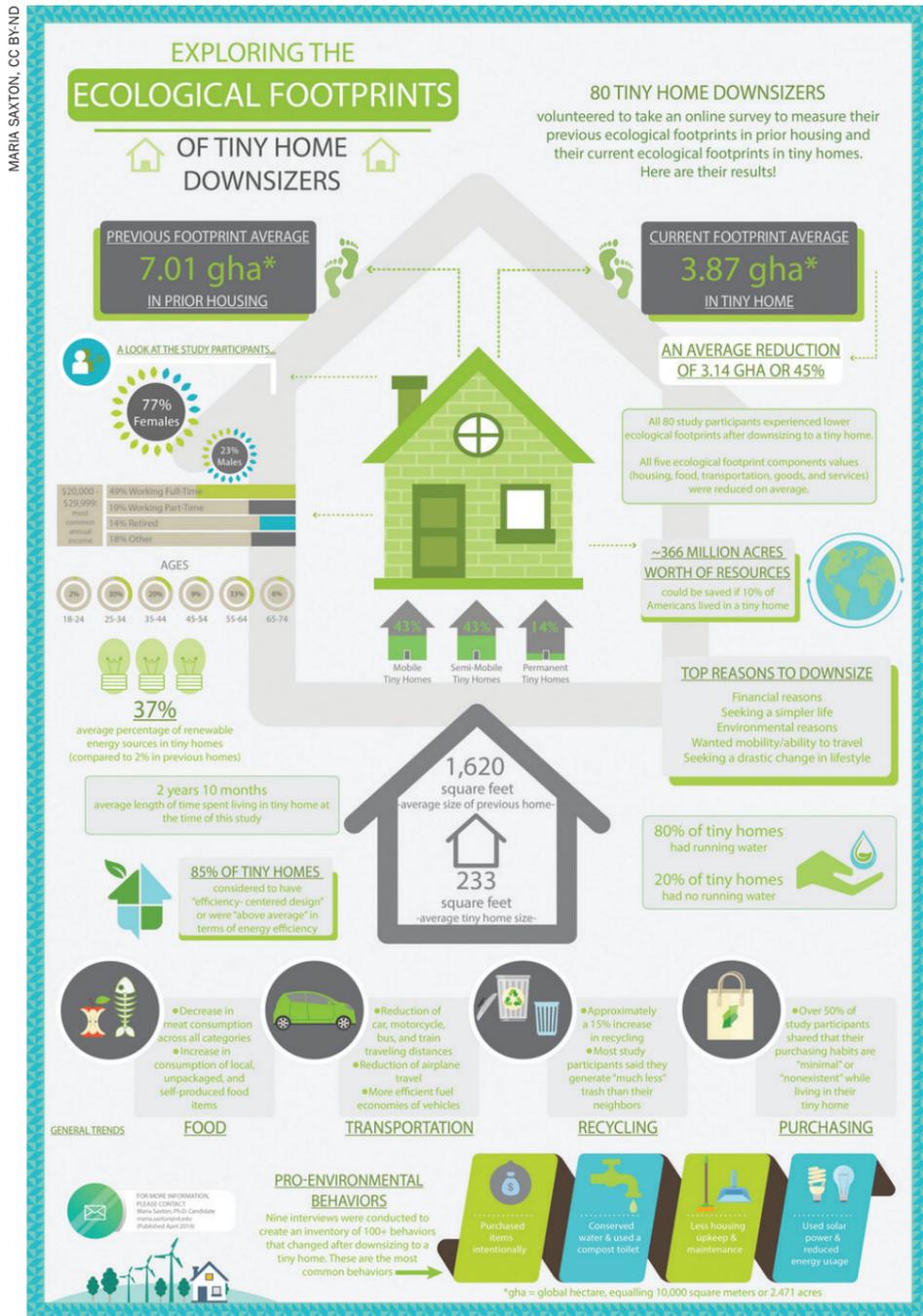


**ROSSIO**  
7am - 11pm  
T: 8802 2372  
Grande Praça, MGM MACAU



**NORTH BY SQUARE EIGHT**  
11am - 1am  
T: 8802 2388  
Level 1, MGM MACAU

# ENVIRONMENTALLY FRIENDLY LIFESTYLES



plastic and paper, and generated less trash. In sum, I found that downsizing was an important step toward reducing ecological footprints and encouraging pro-environmental behaviors. To take these findings a step farther, I was able to use footprint data to calculate how many resources could potentially be saved if a small portion of Americans downsized. I found that about 366 million acres of biologically productive land could be saved if just 10% of Americans downsized to a tiny home.

## FINE-TUNING ANALYSES

My research identified more than 100 behaviors that changed after downsizing to a tiny home. Approximately 86% had a positive impact, while the rest were negative. Some choices, such as harvesting rainwater, adopting a capsule wardrobe approach and carpooling, reduced individual environmental impacts. Others could potentially expand people's footprints – for example, traveling more and

eating out more often. A handful of negative behaviors were not representative of all participants in the study, but still are important to discuss. For instance, some participants drove longer distances after moving to rural areas where their tiny homes could be parked. Others ate out more often because they had smaller kitchens, or recycled less because they lacked space to store recyclables and had less access to curbside recycling services.

It is important to identify these behaviors in order to understand potential negative implications of tiny home living and enable designers to address them. It is also important to note that some behaviors I recorded could have been influenced by factors other than downsizing to a tiny home. For instance, some people might have reduced their car travel because they had recently retired. Nonetheless, all participants in this study reduced their footprints by downsizing to tiny homes, even if they did

not downsize for environmental reasons. This indicates that downsizing leads people to adopt behaviors that are better for the environment. These findings provide important insights for the sustainable housing industry and implications for future research on tiny homes. For instance, someone may be able to present this study to a planning commission office in their town to show how and why tiny homes are a sustainable housing approach. These results have the potential to also support tiny home builders and designers, people who want to create tiny home communities and others trying to change zoning ordinances in their towns to support tiny homes. I hope this work will spur additional research that produces more affordable and sustainable housing choices for more Americans.

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**南苑**  
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24hrs  
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Level 1, MGM MACAU

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next to swimming pool  
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**PORTOFINO**  
Casino Level 1, Shop 1039,  
The Venetian Macao  
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**FW RIO GRILL & SEAFOOD MARKET**  
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12:30 - 15:00 / 19:00 - 23:00

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12:00 - 21:30

## THAI

**NAAM**  
THAI RESTAURANT

**NAAM**  
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956-1110 Avenida da Amizade, The Resort  
T: 8793 4818  
12:00 - 14:30 / 18:30 - 22:30  
(Close on Mondays)

## BARS & PUBS



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Altrira Macau,  
Avenida de Kwong Tung, 38/F Taipa  
Sun-Thu: 13:00 - 02:00  
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15:00 - 03:00

**R BAR**  
Level 1, Hard Rock Hotel  
Opening Hours  
Sun to Thu:  
11:00 - 23:00  
Fri & Sat:  
11:00 - 24:00

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Level One, The St. Regis Macao  
Cuisine: Light Fare  
Atmosphere: Multi-Concept Bar  
Setting: Refined, Inviting  
Serving Style: Bar Menu  
Dress Code: Casual  
Hours: 12:00 PM - 1:00 AM; Afternoon Tea: 2:00PM - 5:30 PM  
Phone: +853 8113 3700  
Email: stregisbar.macao@stregis.com

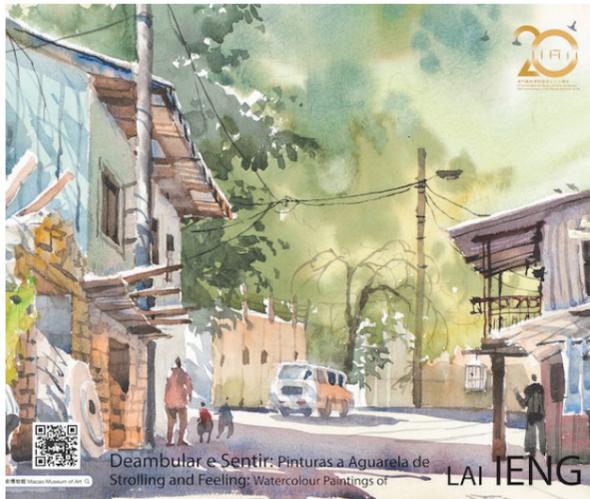


**D2**  
Macau Fisherman's Wharf  
Edf. New Orleans III  
Macao

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2/F, Avenida Dr. Sun Yat Sen, NAPE  
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Friday: 12:00 - 01:00  
Saturday: 14:00 - 01:00  
Sunday: 14:00 - 00:00

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Friday to Saturday: 18:00 - 02:00  
Sunday: 18:00 - 24:00

**WHAT'S ON**



**TODAY (APR 12)**  
STROLLING AND FEELING: WATERCOLOUR PAINTINGS OF LAI IENG

Lai Ieng is one of a number of Chinese painters using watercolours and hailing from Macau, that came to prominence in either the middle or the latter part of the 20th century. Their works not only depict aspects of contemporary society and the reality of local people pursuing their livelihoods, but also seek often to capture some of Macao's most memorable settings. Lai Ieng's work featured in the recent collective exhibition "Landscape of Change - Macao Watercolour Paintings from the MAM Collection". His pieces are now the subject of this solo showcase.

TIME: 10am-7pm (no admittance after 6:30pm; closed on Mondays)  
UNTIL: June 16, 2019  
VENUE: Macao Museum of Art  
ADMISSION: Free  
ORGANIZER: Macao Museum of Art  
ENQUIRIES: (853) 8791 9814  
www.mam.gov.mo



**TOMORROW (APR 13)**  
HARRY POTTER™ FILM CONCERT SERIES

Maestro Shih-Hung Young is conducting the Orchestra Italiana del Cinema to interpret some of the film music canon of composer John Williams. The orchestra's Macao mini season features performances of the musical scores of four films in the Harry Potter series. As the orchestra plays, the respective film inspired by author J.K. Rowling's work will be shown in high-definition format on MGM Theater's indoor LED screen at the MGM Cotai resort. The screen is described as the world's largest facility of that type. Since the world premiere of the Harry Potter Film Concert Series in June 2016, more than 1.3 million fans have enjoyed these experiences. The entire world tour is scheduled to include more than 900 performances across more than 48 countries from 2016 to 2019.

HARRY POTTER AND THE SORCERER'S STONE™ IN CONCERT  
TIME: 2pm & 8pm (April 13)  
8pm (April 18 & 25)

HARRY POTTER AND THE CHAMBER OF SECRETS™ IN CONCERT  
TIME: 4pm (April 14)  
2pm & 8pm (April 19)  
8pm (April 26)

HARRY POTTER AND THE PRISONER OF AZKABAN™ IN CONCERT  
TIME: 2pm & 8pm (April 20 & 27)

HARRY POTTER AND THE GOBLET OF FIRE™ IN CONCERT  
TIME: 10am & 4pm (April 21 & 28)  
2pm & 8pm (May 4)

VENUE: MGM Theater, MGM Cotai  
ADMISSION: MOP480, MOP680, MOP880, MOP1080  
ORGANIZER: Chinese Performing Arts Production International  
ENQUIRES: (853) 8802 3833  
www.mgm.mo/en/cotai/entertainment  
TICKETING SERVICE: (853) 2855 5555  
www.macauticket.com



CLUB CUBIC 8TH ANNIVERSARY FT. TIËSTO

Club Cubic is celebrating its 8th anniversary with a very special present for its fans, a return to Macao by the legendary Dutch electronic dance music DJ Tiësto. The award-winning artist was crowned "The Best DJ of All Time" by Mixmag in 2011, and has been ranked by DJ Mag as among the top five DJs in the world for 13 years in a row. In 2014 he won a Grammy Award for Best Remixed Recording thanks to his interpretation of John Legend's "All of Me". The Dutch master has also performed at some of the biggest festivals around the world, such as Ultra Music Festival, Tomorrowland, Electric Daisy Carnival, Coachella and Burning Man.

TIME: 10pm  
VENUE: Club Cubic, City of Dreams  
ADMISSION: MOP480, MOP680  
ORGANIZER: Club Cubic  
ENQUIRIES: (853) 6638 4999  
www.cubic-cod.com



**SUNDAY (APR 14)**  
PHOTO-SCRIPTS

After a long career as a lawyer, Macau-based João Miguel Barros has only recently begun to exhibit his work as a photographer. Last year alone he won two international awards. After a six-month run at Portugal's Museu Coleção Berardo, João Miguel Barros is now bringing his "Photo-Scripts" exhibition to town. The showcase features

14 images that tell short stories, ranging from landscapes to portraits, all independent from each other, but which can be read like a book.

TIME: 10am-7pm (closed on Mondays)  
DATE: April 13-June 2, 2019  
VENUE: Macao Contemporary Art Center - Navy Yard No.1  
ADMISSION: Free  
ENQUIRIES: (853) 8988 4000  
ORGANIZER: Cultural Affairs Bureau  
www.icm.gov.mo



**MONDAY (APR 15)**  
STAMPS AROUND THE WORLD – LIECHTENSTEIN, KINGDOM OF STAMPS

The Communications Museum is holding Macao's first exhibition dedicated to the postage stamps of a single issuing country, in this case the tiny European principality of Liechtenstein. The display is divided into three collections, starting with "Princely Treasures" stamps that commemorate some of the finest works of art in that country. Another collection, "Chinese Signs of the Zodiac" began in 2012 with the "Dragon" stamp, which was named in one appraisal as "Most Beautiful Stamp in the World" that year.

TIME: 9am-5:30pm (closed on public holidays)  
UNTIL: May 31, 2019  
VENUE: Temporary Gallery, Communications Museum  
ADMISSION: MOP10  
ORGANIZERS: Liechtenstein National Museum; Philately Liechtenstein  
ENQUIRIES: (853) 2871 8063 / 2871 8570  
www.cmm.gov.mo



**TUESDAY (APR 16)**  
SPACE READER: FILL IN THE ONE HOUR

Space Reader was formed in 2016 by a group of young artists in the Taiwan region, and aims to carry out collective experiments in the arts, as well as research projects. Outside people with distinct creative skills are invited by the group to join them on a per-project basis. Four of the group's own artists, Huang Xuan, Yao Min, Zeng Yong-Xiu, and Jiang Yu-Jie, are bringing their "Fill in the one hour" exhibition to Macao, offering a combination of installation and performance. The curator for the event is artist Cai Guo Jie.

TIME: 12pm-7pm (closed on Mondays)  
UNTIL: April 28, 2019  
VENUE: Post-Ox Warehouse Experimental Site  
ADMISSION: Free  
ENQUIRIES: (853) 2853 0026  
ORGANIZER: Ox Warehouse  
oxwarehouse.blogspot.com



**WEDNESDAY (APR 17)**  
COMMUNITY INVOLVEMENT WITH MUSIC

Macao Chinese Orchestra is using music to create fresh ties with the community, and to promote and popularise traditional Chinese music. This month the orchestra performs a free concert in an unfamiliar setting, the terrace garden of one of the city's public health facilities, Conde de S. Januário Hospital.

TIME: 4pm  
VENUE: Terrace Garden, Conde de S. Januário Hospital  
ADMISSION: Free  
ENQUIRIES: (853) 8399 6699  
ORGANIZER: Macao Chinese Orchestra  
www.icm.gov.mo/oohm



**THURSDAY (APR 18)**  
SEE SAW ZINE?

Taipa Village Cultural Association has invited three artists from Hong Kong-based collective Zine Coop, namely Forrest Lau, Beatrix Pang, and Rane Ng, to exhibit its extensive collection of 'zines' and other printed materials such as broadsheets, and documents produced by Risograph - a 1980s brand of Japanese duplicating machine - to a Macau audience. "See Saw Zine?" is also aimed at prompting collaboration with local associations and creative groups regarding independent publishing, workshops and 'zine' making. The term "zine" is short for "fan magazine," i.e., a hand-made, low-cost publication that can feature all manner of topics, and can include text, sketches, images, diagrams, photos and illustrations.

TIME: 12pm-8pm (closed on Tuesdays)  
DATE: April 17-July 12, 2019  
VENUE: Taipa Village Art Space  
ADMISSION: Free  
ENQUIRIES: (853) 2857 6212/ 2857 6118  
ORGANIZER: Taipa Village Cultural Association  
taipavillagemacau.org.mo

# Sands WEEKEND



**SANDS MACAO ANNIVERSARY EXCLUSIVE MOP15\* DINING OFFERS**

Until 30 April 2019  
Sands Macao

Enjoy special anniversary offers for just MOP15\* at selected restaurants from now till 30 April! Enjoy this fabulous dining offer to celebrate 15 years since Sands Macao's opening. Book now for infinite flavours.

For more details visit [www.sandsmacao.com](http://www.sandsmacao.com) or call +853 8983 8222

\*Subject to 10% service charge.



**PARISIAN GOURMET FESTIVAL**

Until 9 June 2019  
Level 7, Eiffel Tower, The Parisian Macao

Join the Parisian Gourmet Festival with friends and family to enjoy French food, wine and live entertainment in a vibrant, al fresco atmosphere and more at the Eiffel Tower of The Parisian Macao. Featuring freshly shucked oysters, aperitif, seafood platter, waffles and a range of beers, wine and champagne.

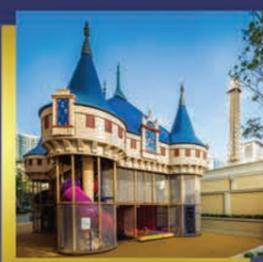
Time: 4pm - 10pm (Wed, Thu & Sun) | 4pm - 12 midnight (Fri & Sat)  
Price: Free Admission  
[SandsResortsMacao.com/Parisian-gourmet](http://SandsResortsMacao.com/Parisian-gourmet)



**SHOP, SAIL AND SAVE UP TO 50% ON COTAI WATER JET TICKETS**

Shoppers who spend MOP250 or above in a single transaction in any shop at Sands Shoppes can enjoy discounted Cotai Water Jet full fare adult ticket, both Cotai Class and Cotai First, on the same day as the date of the transaction. Spend MOP250-499 for a 15% discount on Cotai Class and 30% discount for Cotai First; spend MOP500-999 for a 30% discount on both classes and MOP1,000 or above for a 50% discount on Cotai Class and Cotai First.

Further details: [www.cotaiwaterjet.com/ferry-promotion/2019-retail-new.html](http://www.cotaiwaterjet.com/ferry-promotion/2019-retail-new.html)



**QUBE KINGDOM**

Level 6, The Parisian Macao

Our Qube Kingdom measures over 1,858sqm and covers both indoor and outdoor play areas. We designed it to be the perfect antidote for boredom at any age - climbing nets and slides sit next to a carousel straight out of Les Jardins de Luxembourg, a ball pool is perfectly placed for a pretend snowball fight, and gaming consoles offer a more low-key option for tweens.

Time: Daily 9:30am - 9:30pm  
Price: MOP130 per person



澳門金沙度假區  
**Sands**  
RESORTS MACAO



# World of Wonder

EXPLORING THE REALMS OF HISTORY, SCIENCE, NATURE AND TECHNOLOGY  
By Laurie Triefeldt

Order: Primates  
Family: Ponginae  
Genus and species: *Pongo pygmaeus* (Bornean) and *Pongo abelii* (Sumatran)

# ORANGUTANS

The orangutan is the world's largest tree-dwelling animal and the only great ape of Asia. It is sometimes called the "gardener of the forest" because it disperses the seeds of so many plant species.

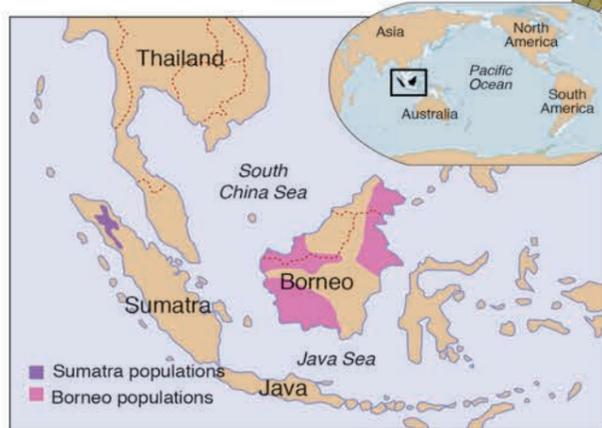
## In a word

In Malay, "orang" means "person" and "utan" is derived from "hutan," which means "forest." Thus, orangutan literally means "person of the forest."

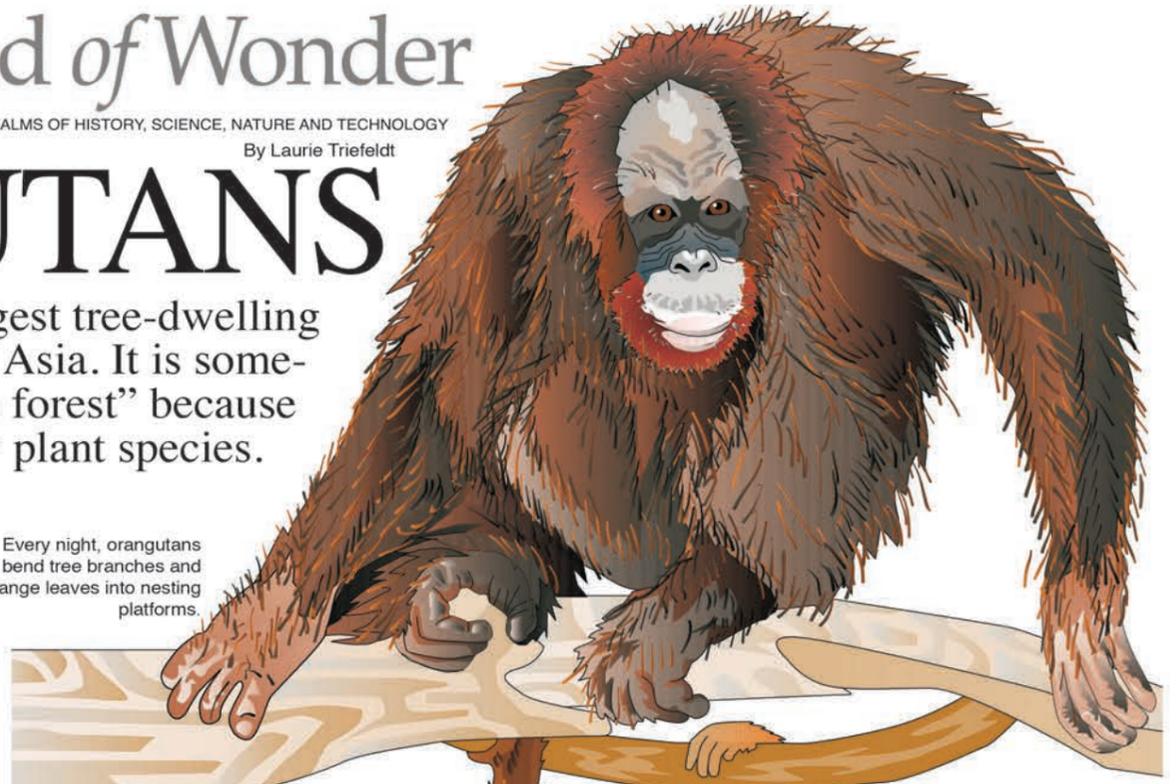
## Where in the wild?

Orangutans once ranged throughout Southeast Asia. They were found well into southern China and all over the islands of Java, Borneo and Sumatra. Today, they are found only on Borneo and Sumatra.

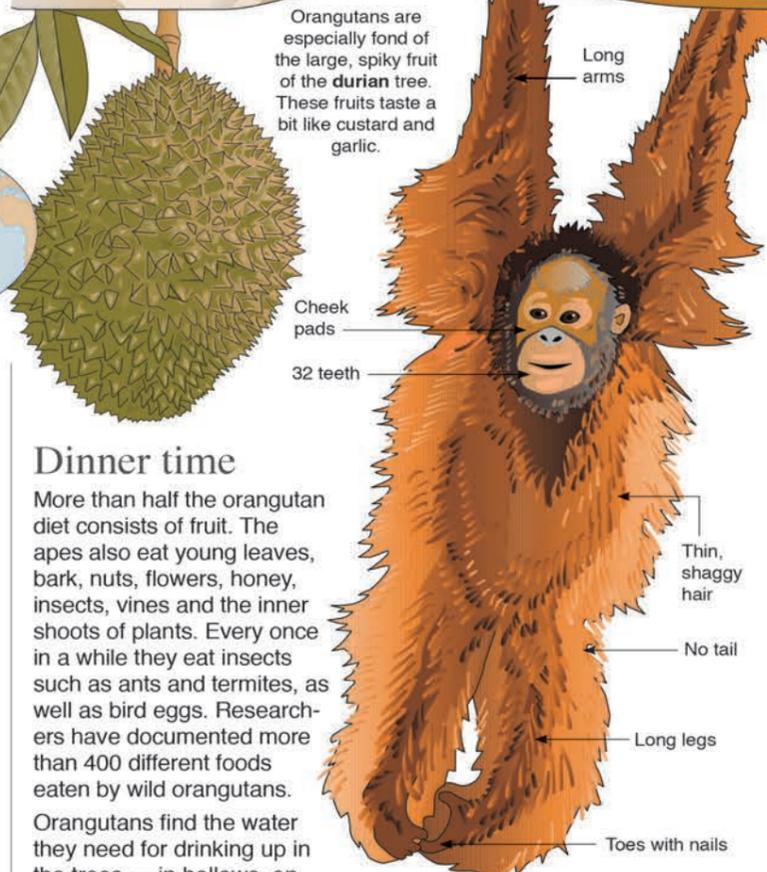
Orangutans on both islands live primarily in swampy lowlands and hilly tropical rain forests at altitudes lower than 3,281 feet (1,000 m) above sea level.



Every night, orangutans bend tree branches and arrange leaves into nesting platforms.



Orangutans are especially fond of the large, spiky fruit of the durian tree. These fruits taste a bit like custard and garlic.



## Did you know?

- Orangutans share about 97 percent of their DNA with humans.
- When on the ground, orangutans walk on all fours, using their palms or fists. Unlike the African apes, they are not morphologically built to be knuckle-walkers.
- When males fight, they charge each other, grapple and bite each other's heads and cheek pads. They sometimes look like sumo wrestlers.
- Like humans, orangutans have opposable thumbs. Their big toes are also opposable. Unlike humans, about one-third of all orangutans do not have nails on their big toes.
- Orangutans are super-strong, which allows them to swing and hang upside-down from branches for long periods.
- Orangutans are losing their homes in the rain forest. Tropical rain forests are being cut down for wood to make paper and furniture, and the land is cleared to grow palm oil for fuel and food. Baby orangutans are also taken from their mothers to be sold as pets.

## Dinner time

More than half the orangutan diet consists of fruit. The apes also eat young leaves, bark, nuts, flowers, honey, insects, vines and the inner shoots of plants. Every once in a while they eat insects such as ants and termites, as well as bird eggs. Researchers have documented more than 400 different foods eaten by wild orangutans.

Orangutans find the water they need for drinking up in the trees — in hollows, on leaves and even on their own fur after a rain.

Orangutan bodies are adapted to their unique method of arboreal locomotion, called **quadrumanous scrambling**.

Older male orangutans grow a beard and mustache. Some also grow cheek pads and throat pouches called **flanges**.

Orangutans in the wild make umbrellas for themselves out of big leaves when it rains. They use sticks to get honey from beehives.

Orangutans' arms stretch out longer than their bodies — up to 8 feet (2.4 m) from fingertip to fingertip.

## Endangered

One hundred years ago, 315,000 orangutans lived in the wild, but today there are fewer than 7,000 Sumatran orangutans and 50,000 Bornean orangutans. The Sumatran orangutan is listed as critically endangered, and the Bornean orangutan as endangered. Without the help of humans, all orangutans could become extinct in the wild within 10 to 20 years.

## Physical characteristics

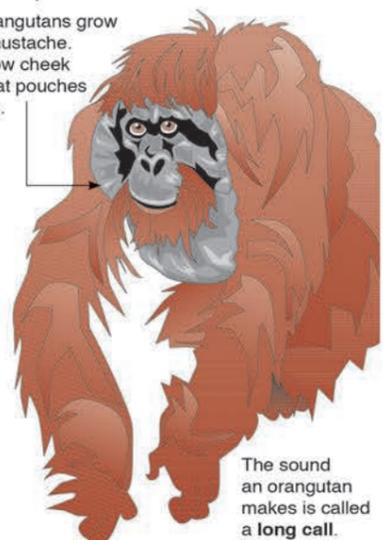
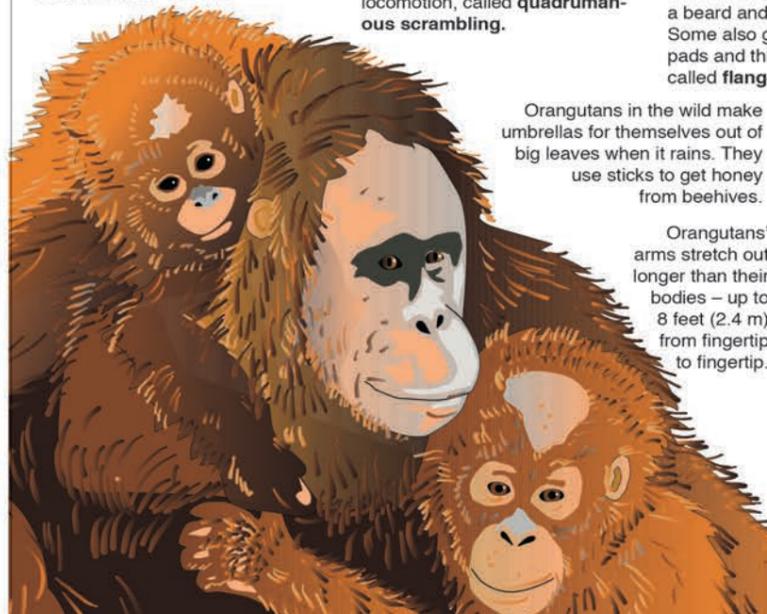
Male and female orangutans look quite different. Both have long arms and reddish-brown hair, but males are much larger than females. Fully mature males can reach 5 feet 9 inches (1.8 m) in height and weigh more than 260 pounds (120 kg). Females grow to 4 feet 2 inches (1.3 m) and about 100 pounds (45 kg). Mature males can also be distinguished by their prominent cheek flanges and longer hair.

## Growing up

Female orangutans have their first offspring at age 15 or 16. (In captivity, females as young as 8 years old have given birth.) They have one baby at a time. Baby orangutans are held by their mothers until they are about 5 years old. The young stay with their mothers until they are 7 or 8 years old — longer than any other mammal except humans.

Males attain sexual maturity in their teens, but they do not reach full size or have fully developed flanges until they are in their 20s or 30s. Females tend to prefer the larger males with flanges.

In the wild, orangutans may live 45 years or more. The oldest captive orangutan was a male called Guas at the Philadelphia Zoo who lived to age 58.



The sound an orangutan makes is called a **long call**.

SOURCES: World Book Encyclopedia; www.orangutan.org; kids.nationalgeographic.com; Smithsonian National Zoological Park; www.orangutans.com; www.orangutans-sos.org/kids/orangutan\_facts; WWF

At a bookstore near you: Two full-color World of Wonder compilations: "Plants & Animals" and "People & Places."