



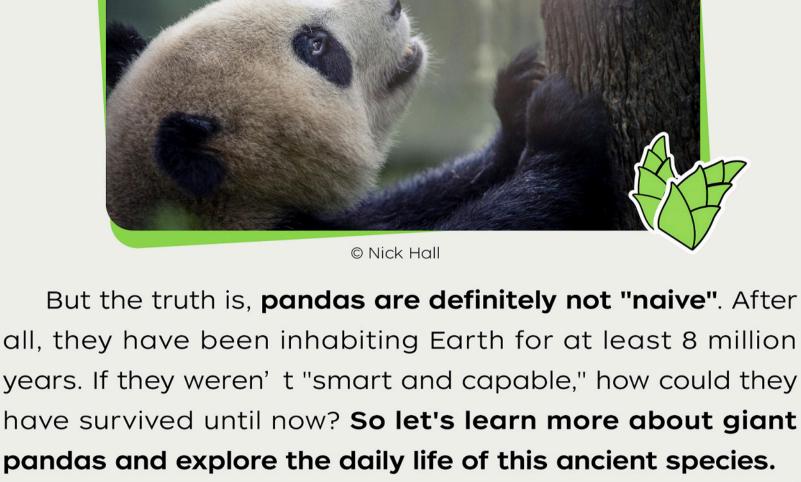
## The Daily Life of

The world-renowned "superstar" giant panda, an en-

demic species of China, is known by many names: the cat

bear, the bamboo bear, the iron eater... With fluffy, rounded

bodies, naive behaviors, and captivating "dark eye circles", coupled with the fact that they often appear slow, sitting or lying down while enjoying bamboo or fruits, giant pandas are loved by people all over the world.



Why don't giant pandas eat meat, is it because they don't like it?

Let's start from the beginning.

So, why do pandas primarily choose bamboo as their main food source? The answer is simple: conve**nience.** Bamboo is not the most nutritious food, but it is abundant and

The fact is that giant pandas belong to the order Car-

nivora. They haven't really evolved the long intestines and

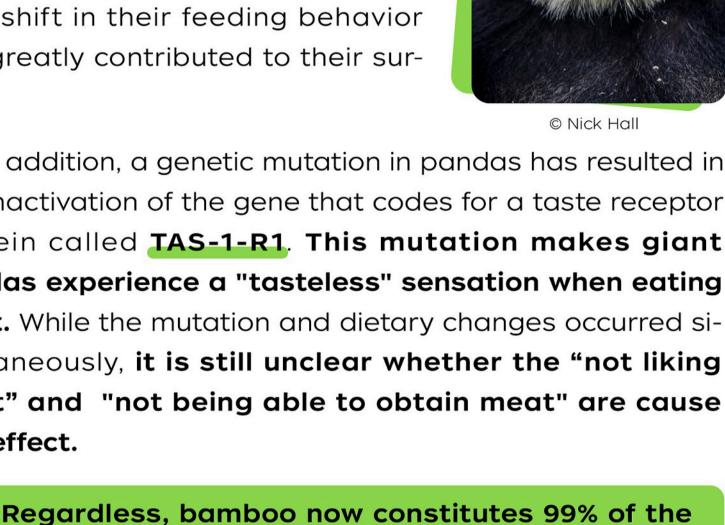
complex stomachs that herbivores have, so they have very

little digestion of bamboo. However, they are not strict veg-

etarians and won't turn down meat if it's readily available.

widely available. Additionally, since fewer animals feed on bamboo, giant pandas have fewer conflicts with animals over food. This signifi-

cant shift in their feeding behavior has greatly contributed to their survival. In addition, a genetic mutation in pandas has resulted in the inactivation of the gene that codes for a taste receptor protein called TAS-1-R1. This mutation makes giant pandas experience a "tasteless" sensation when eating meat. While the mutation and dietary changes occurred simultaneously, it is still unclear whether the "not liking meat" and "not being able to obtain meat" are cause and effect.



In general, pandas employ a

strategy of "massive feeding and

rapid defecation" to obtain suffi-

cient energy from food. They con-

sume an average of up to 20 ki-

lograms or more of bamboo a

day and can defecate up to an

astonishing 40 times! To con-

serve energy, pandas have low

activity intensity, covering an av-

erage daily distance of only

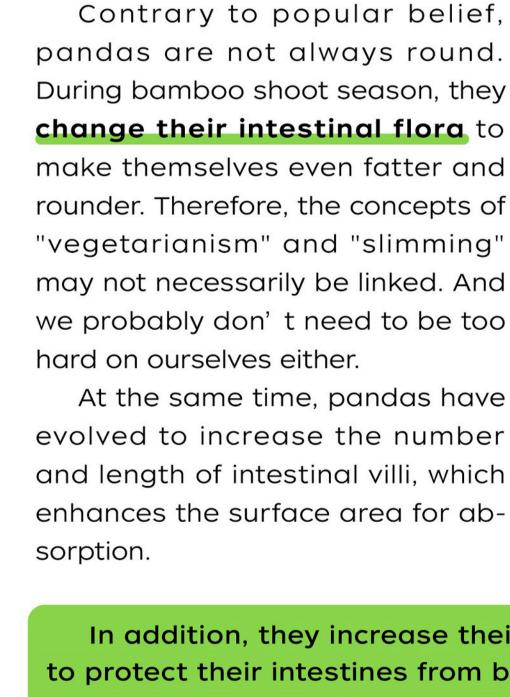
400-500 meters.

pandas' diet, and they probably do prefer vegetarian food over meat. "Eat more and poop more" than many species could ever hope to.

EAT, EAT, EAT!

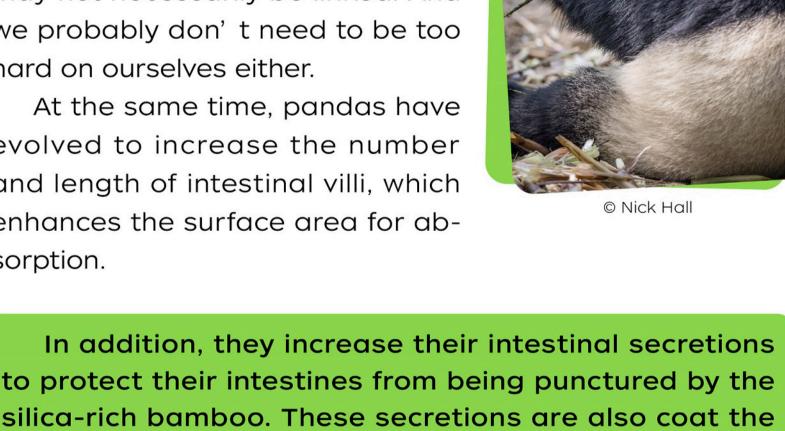
pandas, they have adopted a straightforward response:

Because bamboo provides low nutritional value for giant



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Furthermore, pandas possess a "False Thumb" specialized carpal sesamoid bone known as the "false thumb", which gives the pandas a unique grip that

other bears do not have. The pres-

ence of this "false thumb" is extreme-

ly important as it greatly improves

the pandas' dexterity in holding slip-

kingdom.

pery bamboo.

vival challenges.

Avoiding hunting \(\begin{array}{c}\) Do nothing at all

pandas are trying really hard to eat bamboo.

First of all, we know that bamboo is strong enough to

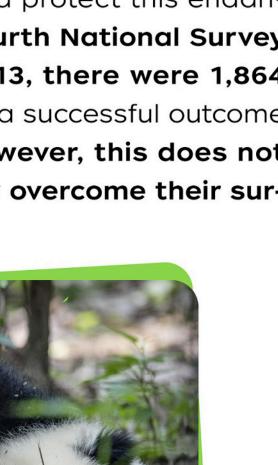
From adapting their diet to developing specialized features like the "false thumb", the giant panda's million-year journey of survival has been filled with hardships. As we all know, significant efforts have been made by China, along with global partners, to conserve and protect this endangered species. According to The Fourth National Survey on Giant Pandas, by the end of 2013, there were 1,864 wild pandas in the country, marking a successful outcome of long-term conservation work. However, this does not

servation efforts must continue.

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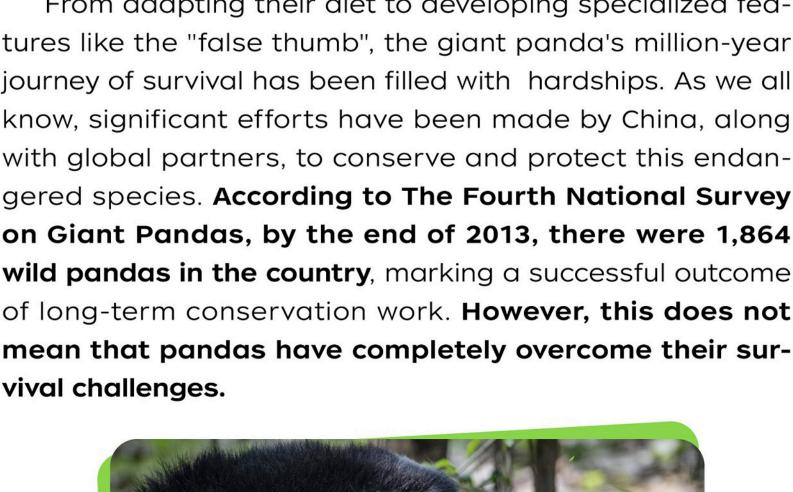


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be used as building materials, and even the hardness of fresh bamboo cannot be underestimated. As a panda, being an everyday bamboo "blender" is not easy. Fortunately, as members of the bear family, giant pandas possess strong jaw muscles. Through evolution, they have adapted to eating bamboo by developing solid canines suitable for biting and slicing bamboo, as well as wide molar teeth suitable for chewing and grinding. In fact, some studies suggest that the molars of giant pandas may be among the most powerful chewing teeth in the animal



In reality, wild pandas continue to face significant pressures, and their situation remains critical. Our con-

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