

No need to be a singer, you can still smash a glass of water with singing

Is this right? How can a healthy voice do it?

Many people believe that **the singer opea** owns a high-pitched voice, extremely strong enough to break a glass of wine. And there was a rumor in the world about opera singer **Enrico Caruso** - who was supposed to be capable of breaking a glass of wine with his voice alone.

Is this right? How can a healthy voice do it?

The truth is that anyone can . shatter the glass, no need for a singer

Theoretically, this is entirely possible, based on **resonance** . When the sound hits the object, it will affect the molecules inside, causing them to vibrate and under pressure until they break.

Material types will have different structures, so they have a specific **resonance frequency** . And if you choose a sound wave with a frequency that matches the resonant frequency of the object, it will vibrate much faster and faster.



This means that you just need to choose **the same frequency sound of glass** , you can completely break the glass without having to be a professional opera singer.

According to **Dara O Briain** , an expert in the US Science Science program, to break the voice cup (sing) you need to determine the resonant frequency of the glass based on the sound emitted when you type in it. After that, you just need to reproduce that sound - sing or shout anything, with a volume of about 100db - equivalent to the

sound of a vacuum cleaner.

You see, the sound created is not as terrible as the top opera singers, you can still . shatter a glass of water.

A **trick that** makes it easier to do this is to put a **straw** inside the glass and you can rely on the vibration level of the straw to adjust your voice. Wet your fingers and rotate evenly around the body of the cup to help you hear the continuous tone of the resonant capacity. At that time, the sound is usually up to octaves (the middle interval between a high sound and another high sound has a frequency equal to half or double) or more to break a glass.

However, if it's a legless cup, you won't be able to do that.

The reason is because the drinking glasses are quite special: narrow above, bulging in the middle. Therefore, you can hold the glass without affecting the resonant vibration of the cup.

In addition, the more expensive cups are brittle, because they are often made from **crystal** - extremely fragile materials, designed to be thinner than normal cups. The glasses of old wine are also more fragile, because they often have microscopic fractures in the molecule due to the effects of time.

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