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Didgeridoo

The **didgeridoo** (/_dɪdʒəri'du:/; also known as a **didjeridu**) is a <u>wind</u> <u>instrument</u>. The didgeridoo was developed by <u>Indigenous Australians</u> of northern Australia, likely within the last 1,500 years and is now in use around the world. It is a wooden <u>trumpet</u> "drone pipe" classified by <u>Musicologists</u> as a <u>brass aerophone</u>.^[1]

A didgeridoo is usually <u>cylindrical</u> or <u>conical</u>, and can measure anywhere from 1 to 3 m (3 to 10 ft) long. Most are around 1.2 m (4 ft) long. Generally, the longer the instrument, the lower its pitch or key. However, flared instruments play a higher pitch than unflared instruments of the same length.

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Origin

There are no reliable sources of the exact age of the didgeridoo. Archaeological studies suggest that people of the <u>Kakadu</u> region in Northern Australia have been using the didgeridoo for less than 1,000 years, based on the dating of

<u>rock art paintings.^[2] A clear rock painting in Ginga Wardelirrhmeng, on the northern edge of the Arnhem Land</u> plateau, from the freshwater period^[3] (that had begun 1500 years ago)^[4] shows a didgeridoo player and two songmen participating in an Ubarr Ceremony.^[5]

Didgeridoo



Baritone horn, Bronze Age Irish Horn

Etymology

The name "Didgeridoo" is not of aboriginal origin and is considered to be an <u>onomatopoetic</u> word. The earliest occurrences of the word in print include a 1908 edition of the *Hamilton Spectator*,^[6] a 1914 edition of <u>The Northern Territory</u> <u>Times and Gazette</u>,^[7] and a 1919 issue of <u>Smith's Weekly</u> where it was referred to as a "didjerry" which produced the sound – (phonic) "didjerry, didjerry, didjerry and so on ad infinitum".^[8]

A rival explanation, that didgeridoo is a <u>corruption</u> of the <u>Irish</u> <u>Gaelic language</u> phrase *dúdaire dubh* or *dúidire dúth*, is controversial.^[9] <u>Dúdaire/dúidire</u> is a noun that, depending on the context, may mean "trumpeter", "<u>hummer</u>", "crooner" or "puffer" while *dubh* means "black" and *dúth* means "native".

Other names

Didgeridoo and clapstick players performing at Nightcliff, Northern Territory

There are numerous names for the instrument among the Aboriginal peoples of <u>northern Australia</u>, none of which closely resemble the word "didgeridoo" (see below). Some didgeridoo enthusiasts, scholars and Aboriginal people advocate

using local language names for the instrument.^[10] However, in everyday conversation, some Aboriginal people will often use the word "didgeridoo" interchangeably with the instrument's name in their local language.

Yidaki (sometimes spelt *yirdaki*) is one of the most commonly used names although, strictly speaking, it refers to a specific type of the instrument made and used by the <u>Yolngu</u> people of north-east <u>Arnhem Land</u>. Yolngu also use the synonym *mandapul* to refer to the instrument.

There are numerous other, regional names for the didgeridoo. The following are some of the more common of these.^[11]



People	Region	Local name
Anindilyakwa	Groote Eylandt	ngarrriralkpwina
Arremte	Alice Springs	ilpirra
Djinang	Arnhem Land	yiḏaki
Gagudju	Arnhem Land / Kakadu	garnbak
Gupapuygu	Arnhem Land	yiraka
Iwaidja	Cobourg Peninsula	artawirr
Jawoyn	Katherine / Nitmiluk / Kakadu	gunbarrk
Kunwinjku	Arnhem Land / Kakadu	mako ^[12]
Mayali	Alligator Rivers	martba
Ngarluma	Roebourne, W.A.	kurmur
Nyul Nyul	Kimberleys	ngaribi
Pintupi	Central Australia	paampu
Warray	Adelaide River	bambu
Yolngu	Arnhem Land	mandapul (yi <u>d</u> aki)

Construction

Traditional didgeridoos are usually made from <u>hardwoods</u>, especially the various <u>eucalyptus</u> species that are <u>endemic</u> to northern and central Australia.^[13] Generally the main trunk of the tree is harvested, though a substantial branch may be used instead. Traditional didgeridoo makers seek suitably hollow live trees in areas with obvious <u>termite</u> activity. Termites attack these living eucalyptus trees, removing only the dead heartwood of the tree, as the living sapwood contains a chemical that repels the insects.^[14] Various techniques are employed to find trees with a suitable hollow, including knowledge of landscape and termite activity patterns, and a kind of tap or knock test, in which the bark of the tree is peeled back, and a fingernail or the blunt end of a tool, such as an axe, is knocked against the wood to determine if the hollow produces the right resonance.^[15] Once a suitably hollow tree is found, it is cut down and cleaned out, the bark is taken



A wax mouthpiece can soften during play, forming a better seal.

off, the ends trimmed, and the exterior is shaped; this results in a finished instrument. A rim of <u>beeswax</u> may be applied to the <u>mouthpiece</u> end.

Non-traditional didgeridoos can be made from native or non-native hard woods (typically split, hollowed and rejoined), glass, fiberglass, metal, agave, clay, hemp (in the form of a bioplastic named <u>zelfo</u>), PVC piping and carbon fibre. These typically have an upper inside diameter of around 1.25" down to a bell end of anywhere between two and eight inches and have a length corresponding to the desired key. The end of the pipe can be shaped and smoothed to create a comfortable mouthpiece or an added mouthpiece can be made of any shaped and smoothed material such as rubber, rubber stopper with a hole or beeswax.

Modern didgeridoo designs are distinct from the traditional Australian <u>Aboriginal</u> didgeridoo, and are innovations recognized by <u>musicologists</u>.^{[16][17]} Didgeridoo design innovation started in the late 20th century using non-traditional materials and non-traditional shapes.

Decoration

Didgeridoos can be painted by their maker or a dedicated artist using traditional or modern paints while others retain the natural wood grain with minimal or no decoration.

Playing the didgeridoo

The didgeridoo is played with continuously vibrating lips to produce the drone while using a special breathing technique called <u>circular breathing</u>. This requires breathing in through the nose whilst simultaneously expelling stored air out of the mouth using the tongue and cheeks. By use of this technique, a skilled player can replenish the air in their lungs, and with practice can sustain a note for as long as desired. Recordings exist of modern didgeridoo players playing continuously for more than 40 minutes; <u>Mark Atkins</u> on *Didgeridoo Concerto* (1994) plays for over 50 minutes continuously.

An Aboriginal man playing the didgeridoo

The didgeridoo functions "...as an aural kaleidoscope of timbres"^[18] and that "the extremely difficult virtuoso techniques developed by expert performers find no parallel elsewhere."^[18]

Physics and operation

A termite-bored didgeridoo has an irregular shape that, overall, usually increases in diameter towards the lower end. This shape means that its resonances occur at frequencies that are not harmonically spaced in frequency. This contrasts with the <u>harmonic</u> spacing of the resonances in a cylindrical plastic pipe, whose resonant frequencies fall in the ratio 1:3:5 etc. The second resonance of a didgeridoo (the note sounded by overblowing) is usually around an <u>11th</u> higher than the fundamental frequency (a frequency ratio somewhat less than 3:1).

The vibration produced by the player's lips has harmonics, i.e., it has frequency components falling exactly in the ratio 1:2:3 etc. However, the non-harmonic spacing of the instrument's resonances means that the harmonics of the

fundamental note are not systematically assisted by instrument resonances, as is usually the case for Western wind instruments (e.g., in the low range of the <u>clarinet</u>, the 1st, 3rd, and 5th harmonics of the reed are assisted by resonances of the bore).

Sufficiently strong resonances of the vocal tract can strongly influence the <u>timbre</u> of the instrument. At some frequencies, whose values depend on the position of the player's tongue, resonances of the vocal tract inhibit the oscillatory flow of air into the instrument. Bands of frequencies that are not thus inhibited produce <u>formants</u> in the output sound. These formants, and especially their variation during the inhalation and exhalation phases of circular breathing, give the instrument its readily recognizable sound.



Didgeridoo street player in Spain

Other variations in the didgeridoo's sound can be made by adding vocalizations to the drone. Most of the vocalizations are related to sounds emitted by Australian animals, such as the <u>dingo</u> or the <u>kookaburra</u>. To produce these sounds, the players simply have to use their vocal folds to produce the sounds of the animals whilst continuing to blow air through the instrument. The results range from very high-pitched sounds to much lower sounds involving interference between the lip and vocal fold vibrations. Adding vocalizations increases the complexity of the playing.

In popular culture

Modern performances using the didgeridoo include combining it with <u>beatboxing</u>. It was featured on the British children's TV series *Blue Peter*.^[19]

The didgeridoo also became a role playing instrument in the experimental and avant-garde music scene. Industrial music bands like Test Department generated sounds from this instrument and used them in their industrial performances.

It is very often used in the music project Naakhum which combines Extreme Metal and Ethnic music.

Early songs by the acid jazz band Jamiroquai featured didgeridoo player Wallis Buchanan (until he left the band in 1999). A notable song featuring a didgeridoo is the band's first single "When You Gonna Learn", which features prominent didgeridoo playing in both the introduction and solo sections.

The instrument is commonly used by ambient artist <u>Steve Roach</u> as a complement to his produced soundscapes, in both live and recorded formats. It features prominently in his collaborative work <u>Australia: Sound of the Earth</u> (with Australian Aboriginal artist David Hudson and cellist Sarah Hopkins) as well as *Dreamtime Return*.

It is used in the Indian song "Jaane Kyon" from the film *Dil Chahta Hai*.

Chris Brooks, lead singer of the New Zealand <u>hard rock</u> band <u>Like a Storm</u> uses the didgeridoo in some of the band's songs including "Love the Way You Hate Me" from their album *Chaos Theory: Part 1.*

Kate Bush made extensive use of the didgeridoo (played by Australian musician Rolf Harris) on her album *The Dreaming*, which was written and recorded after a holiday in Australia.

Charlie McMahon, who formed the group <u>Gondwanaland</u>, was one of the first non-Aboriginal players to gain fame as a professional didgeridoo player. He has toured internationally with <u>Midnight Oil</u>. He invented the <u>didjeribone</u>, a sliding didgeridoo made from two lengths of plastic tubing; its playing style is somewhat in the manner of a <u>trombone</u>, hence the portmanteau name.

Cultural significance

Traditionally, the didgeridoo was played as an accompaniment to ceremonial dancing and singing and for solo or recreational purposes. For Aboriginal peoples of northern Australia, the didgeridoo is still used to accompany singers and dancers in cultural ceremonies. Today, most Didgeridoo playing is recreational but it has become an important commercial activity in tourism and a more limited professional activity in music performances and recordings.

Pair sticks, sometimes called <u>*clapsticks*</u> (*bilma* or *bimla* by some traditional groups)^[20], establish the beat for the songs during ceremonies. The rhythm of the didgeridoo and the beat of the clapsticks are precise, and these patterns have been handed down for many generations. In the <u>Wangga</u> genre, the song-man starts with vocals and then introduces *bilma* to the accompaniment of didgeridoo.^[21]

Gender-based traditional prohibition debate

Traditionally, only men play the didgeridoo and sing during ceremonial occasions and playing by females is sometimes discouraged by Aboriginal communities and elders. In 2008, publisher <u>Harper Collins</u> apologized for its book *The Daring Book for Girls*, which openly encouraged girls to play the instrument after some Aboriginal academics described such encouragement as "extreme cultural insensitivity" and "an extreme faux pas ... part of a general ignorance that mainstream Australia has about Aboriginal culture."^{[2][22][23]} However, Linda Barwick, an <u>ethnomusicologist</u>, says that though traditionally women have not played the didgeridoo in ceremony, in informal situations there is no prohibition in the <u>Dreaming Law</u>.^[24] For example, Jemima Wimalu, a Mara woman from the Roper River is very proficient at playing the didgeridoo and is featured on the <u>record Aboriginal Sound Instruments</u> released in 1978. In 1995, musicologist Steve Knopoff observed Yirrkala women performing *djatpangarri* songs that are traditionally performed by men and in 1996, ethnomusicologist Elizabeth MacKinley reported women of the Yanyuwa group giving public performances.

While there is no prohibition in the area of the didgeridoo's origin, such restrictions have been applied by other Indigenous communities. The didgeridoo was introduced to the <u>Kimberleys</u> almost a century ago but it is only in the last decade that Aboriginal men have shown adverse reactions to women playing the instrument and prohibitions are especially evident in the South East of Australia. The belief that women are prohibited from playing is widespread among non-Aboriginal people and is also common among Aboriginal communities in Southern Australia; some ethnomusicologists believe that the dissemination of the *Taboo* belief and other misconceptions is a result of commercial agendas and marketing. Tourists generally rely on shop employees for information when purchasing a didgeridoo. Additionally, the majority of commercial didgeridoo recordings



An Indigenous Australian man playing a didgeridoo



Musician playing a Travel or Reticulated Didgeridoo

available are distributed by multinational recording companies and feature non-Aboriginals playing a <u>New Age</u> style of music with <u>liner notes</u> promoting the instrument's spirituality which misleads consumers about the didgeridoo's secular role in traditional Aboriginal culture.^[2]

The Taboo belief is particularly strong among many Indigenous groups in the South East of Australia, where it is forbidden and considered "cultural theft" for non-Indigenous women, and especially performers of *New Age* music regardless of gender, to play or even touch a didgeridoo.^[2]

Health benefits

A 2005 study reported in the <u>British Medical Journal</u> found that learning and practising the didgeridoo helped reduce <u>snoring</u> and <u>obstructive sleep apnea</u> by strengthening muscles in the upper airway, thus reducing their tendency to collapse during sleep. In the study, intervention subjects were trained in and practiced didgeridoo playing, including <u>circular</u>

<u>breathing</u> and other techniques. Control subjects were asked not to play the instrument. Subjects were surveyed before and after the study period to assess the effects of intervention.^[25] A small 2010 study noted improvements in the asthma management of Aboriginal teens when incorporating didgeridoo playing.^[26]

See also

- Aboriginal Centre for the Performing Arts
- Alphorn
- Erke
- Indigenous Australian music
- List of didgeridoo players
- Mayan trumpet

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External links

- iDIDJ Australian Didgeridoo Cultural Hub (http://www.ididj.com.au/)
- The Didjeridu W3 Server (http://www.dreamtime-didjeriduw3server.com/)
- The physics of the didj (http://www.phys.unsw.edu.au/~jw/dij/dij.html)
- Didgeridoo acoustics (http://www.phys.unsw.edu.au/jw/didjeridu.html) from the University of New South Wales
- Database of audio recordings of traditional Arnhem Land music, samples included, many with didgeridoo (http://www.manikay.com)
- The Didjeridu: A Guide (http://imaginariumdev.com/wp-content/uploads/2015/10/The-Didjeridu-A-Guide.pdf) By Joe Cheal – General info on the didgeridoo, with citations and references
- BioloDidje (http://www.biolodidje.com) (translations available)
- Yidakiwuy Dhawu Miwatjngurunydja (http://www.yidakistory.com/) comprehensive site by traditional owners of the instrument

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