Ukulele

The **ukulele** (/_ju:kəˈleɪli/ YOO-kə-LAY-lee; from Hawaiian: 'ukulele ['ʔukuˈlɛlɛ], approximately OO-koo-LEH-leh) or **ukelele**^[1] is a member of the guitar family of instruments. It generally employs four nylon or gut strings or four courses of strings. [2][3] Some strings may be paired in courses, giving the instrument a total of six or eight strings.

The ukulele originated in the 19th century as a Hawaiian adaptation of the Portuguese machete, [4] a small guitar-like instrument, which was introduced to Hawaii by Portuguese immigrants, mainly from Madeira and the Azores. It gained great popularity elsewhere in the United States during the early 20th century and from there spread internationally.

The <u>tone</u> and volume of the instrument vary with size and construction. Ukuleles commonly come in four sizes: soprano, concert, tenor, and baritone.

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Ukulele



Martin 3K Ukulele

String instrument

Classification	String instrument			
	(plucked, nylon			
	stringed instrument			
	usually played with			
	the bare thumb			
	and/or fingertips,			
	or a felt pick)			

Hornbostel	321.322			
-Sachs	(Composite			
classification	chordophone			
Developed	19th century			

Related instruments

 Bowed and plucked string instruments, in particular the cavaquinho

History

The ukulele is commonly associated with <u>music from Hawaii</u> where the name roughly translates as "jumping flea", [5] perhaps because of the movement of the player's fingers. Legend attributes it to the nickname of the Englishman <u>Edward William Purvis</u>, one of King <u>Kalākaua</u>'s officers, because of his small size, fidgety manner, and playing expertise. One of the earliest appearances of the word *ukulele* in print (in the sense of a stringed instrument) is in the <u>Metropolitan Museum of Art</u>'s *Catalogue of the Crosby Brown Collection of Musical Instruments of All Nations* published in 1907. The catalog describes two ukuleles from Hawaii: one that is similar in size to a modern soprano ukulele, and one that is similar to a tenor (see § Types and sizes). [6]

Developed in the 1880s, the ukulele is based on several small guitar-like instruments of Portuguese origin, the machete, the <u>cavaquinho</u>, the <u>timple</u>, and the <u>rajão</u>, introduced to the Hawaiian Islands by <u>Portuguese</u> immigrants from <u>Madeira</u> and <u>Cape Verde</u>. Three immigrants in particular, <u>Madeiran</u> cabinet makers Manuel Nunes, José do Espírito Santo, and Augusto Dias, are generally credited as the first ukulele makers. Two weeks after they disembarked from the <u>SS</u> <u>Ravenscrag</u> in late August 1879, the <u>Hawaiian Gazette</u> reported that "Madeira Islanders recently arrived here, have been delighting the people with nightly street concerts." The experimental street is a several small guitar-like instruments of Portuguese origin, the machete, and the machete, and the rajão, introduced to the Hawaiian Islands by <u>Portuguese</u> immigrants from <u>Madeira</u> and <u>Cape Verde</u>. The experimental street is a several small guitar-like instruments of Portuguese origin, the machete, and the machete, and the rajão, introduced to the Hawaiian Islands by <u>Portuguese</u> immigrants from <u>Madeira</u> and <u>Cape Verde</u>. The experimental street is a several small guitar-like instruments of Portuguese origin, the machete, and the machete, and the rajão, introduced to the Hawaiian Islands by <u>Portuguese</u> immigrants from <u>Madeira</u> and <u>Cape Verde</u>.

One of the most important factors in establishing the ukulele in Hawaiian $\underline{\text{music}}$ and $\underline{\text{culture}}$ was the ardent support and promotion of the instrument by King $\underline{\text{Kal\bar{a}kaua}}$. A patron of the arts, he incorporated it into performances at royal gatherings. [10]

<u>Kamaka Ukulele</u> or just Kamaka is a family-owned Hawaii-based maker of ukuleles, founded in 1916, that is often credited with producing some of the world's finest ukuleles, and created the first pineapple ukulele.

Canada

In the 1960s, educator <u>J. Chalmers Doane</u> dramatically changed school music programs across <u>Canada</u>, using the ukulele as an inexpensive and practical teaching instrument to foster <u>musical literacy</u> in the classroom. [11] 50,000 schoolchildren and adults learned ukulele through the Doane program at its peak. [12] Today, a revised program created by <u>James Hill</u> and J. Chalmers Doane continues to be a staple of music education in Canada.

Japan

The ukulele came to <u>Japan</u> in 1929 after Hawaiian-born <u>Yukihiko Haida</u> returned to the country upon his father's death and introduced the instrument. Haida and his brother <u>Katsuhiko</u> formed the Moana Glee Club, enjoying rapid success in an environment of growing enthusiasm for Western popular music, particularly Hawaiian and <u>jazz</u>. During <u>World War II</u>, authorities banned most Western music, but fans and players kept it alive in secret, and it resumed popularity after the war. In 1959, Haida founded the <u>Nihon Ukulele Association</u>. Today, Japan is considered a second home for Hawaiian musicians and ukulele virtuosos.^[13]

United Kingdom

British singer and comedian <u>George Formby</u> was a ukulele player, though he often played a <u>banjolele</u>, a hybrid instrument consisting of an extended ukulele neck with a <u>banjo</u> resonator body. Demand surged in the new century because of its relative simplicity and portability.^[14] Another British ukulele player was <u>Tony Award</u> winner <u>Tessie O'Shea</u>, who appeared in numerous movies and stage shows, and was twice on <u>The Ed Sullivan Show</u>, including the night <u>The Beatles</u> debuted in 1964.^[15] The <u>Ukulele Orchestra of Great Britain</u> tours globally, and the <u>George Formby Society</u>, established in 1961, continues to hold regular conventions.

United States mainland

Pre World War II

The ukulele was popularized for a stateside audience during the Panama–Pacific International Exposition, held from spring to fall of 1915 in San Francisco. The Hawaiian Pavilion featured a guitar and ukulele ensemble, George E. K. Awai and his Royal Hawaiian Quartet, along with ukulele maker and player Jonah Kumalae. The popularity of the ensemble with visitors launched a fad for Hawaiian-themed songs among Tin Pan Alley songwriters. The ensemble also introduced both the lap steel guitar and the ukulele into U.S. mainland popular music, where it was taken up by vaudeville performers such as Roy Smeck and Cliff "Ukulele Ike" Edwards. On April 15, 1923 at the Rivoli Theater in New York City, Smeck appeared, playing the ukulele, in Stringed Harmony, a short film made in the DeForest Phonofilm sound-on-film process. On August 6, 1926, Smeck appeared playing the ukulele in a short film His Pastimes, made in the Vitaphone sound-on-disc process, shown with the feature film Don Juan starring John Barrymore.

The ukulele soon became an icon of the <u>Jazz Age</u>. ^[22] Like guitar, basic ukulele skills can be learned fairly easily, and this highly portable, relatively inexpensive instrument was popular with amateur players throughout the 1920s, as evidenced by the introduction of uke chord <u>tablature</u> into the published <u>sheet music</u> for popular songs of the time, ^[22] (a role that

would be supplanted by the guitar in the early years of <u>rock and roll</u>).^[23] A number of mainland-based stringed-instrument manufacturers, among them <u>Regal</u>, <u>Harmony</u>, and especially <u>Martin</u> added ukulele, <u>banjolele</u>, and <u>tiple</u> lines to their production to take advantage of the demand.

The ukulele also made inroads into early country music or <u>old-time music</u>^[24] parallel to the then popular mandolin. It was played by <u>Jimmie Rodgers</u> and <u>Ernest V. Stoneman</u>, as well as by early string bands, including <u>Cowan Powers</u> and <u>his Family Band</u>, Da Costa Woltz's Southern Broadcasters, Walter Smith and Friends, The Blankenship Family, The Hillbillies, and The Hilltop Singers.

Post World War II

From the late 1940s to the late 1960s, plastics manufacturer Mario Maccaferri turned out about 9 million inexpensive ukuleles. The ukulele continued to be popular, appearing on many jazz songs throughout the 1950s, 1960s, and 1970s. Much of the instrument's popularity (particularly the baritone size) was cultivated via *The Arthur Godfrey Show* on television. Singer-musician

<u>Tiny Tim</u> became closely associated with the instrument after playing it on his 1968 hit "<u>Tiptoe</u> Through the Tulips".

Ukulele Square, the Hawaiian Quarter of New York

1916 cartoon by Louis M. Glackens satirizing the current ukulele craze



Boy in Hawaii wearing lei and holding a Maccaferri "Islander" plastic ukulele

Post 1990 revival

After the 1960s, the ukulele declined in popularity until the late 1990s, when interest in the instrument reappeared. During the 1990s, new manufacturers began producing ukuleles and a new generation of musicians took up the instrument. Jim Beloff set out to promote the instrument in the early 1990s and created over two dozen ukulele music books featuring modern music as well as classic ukulele pieces. [29]

All-time best selling Hawaiian musician <u>Israel Kamakawiwo'ole</u> helped re-popularise the instrument, in particular with his 1993 <u>reggae</u>-rhythmed <u>medley</u> of "<u>Over the Rainbow</u>" and "<u>What a Wonderful World</u>," used in films, television programs, and commercials. The song reached no. 12 on *Billboard's* Hot Digital Tracks chart the week of January 31, 2004.^[30]

The creation of YouTube was a large influence on the popularity of the ukulele. One of the first videos to go viral was <u>Jake Shimabukuro</u>'s ukulele rendition of <u>George Harrison</u>'s "<u>While My Guitar Gently Weeps</u>" on <u>YouTube</u>. The video quickly went <u>viral</u>, and as of April 2019, had received over 16 million views.^[31]

Construction

Ukuleles are generally made of wood, though variants have been composed partially or entirely of plastic or other materials. Cheaper ukuleles are generally made from <u>plywood</u> or <u>laminate</u> woods, in some cases with a soundboard of a <u>tonewood</u> such as <u>spruce</u>. More expensive ukuleles are made of solid hardwoods such as <u>mahogany</u>. The traditionally preferred wood for ukuleles is acacia koa.

Typically, ukuleles have a figure-eight body shape similar to that of a small <u>acoustic guitar</u>. They are also often seen in non-standard shapes, such as cutaway shape and an oval, usually called a "pineapple" ukulele, invented by the <u>Kamaka Ukulele</u> company, or a boat-paddle shape, and occasionally a square shape, often made out of an old wooden cigar box.

These instruments usually have four strings; some strings may be paired in <u>courses</u>, giving the instrument a total of six or eight strings (primarily for greater strumming volume.) The strings themselves were originally made of <u>catgut</u>. Modern ukuleles use <u>nylon polymer</u> strings, with many variations in the material, such as <u>fluorocarbon</u>, <u>aluminium</u> (as winding on lower pitched strings), [32] and Nylgut. [33]

Instruments with 6 or 8 strings in four courses are often called taropatches, or taropatch ukuleles. They were once common in a concert size, but now the tenor size is more common for six-string taropatch ukuleles. The six string, four course version, has two single and two double courses, and is sometimes called a Lili'u, though this name also applies to the eight-string version. [34] Eight-string baritone taropatches exist, [35] and, 5-string tenors have also been made. [36] A Javanese ukulele commonly has only three strings. It seems to be a modern innovation, as the first generation of three-stringed ukuleles were four stringed instruments with one string deliberately removed. They are now manufactured to have only three strings.



A modern red ukulele.

Types and sizes

Common types of ukuleles include soprano (standard ukulele), concert, tenor, and baritone. Less common are the sopranino (also called piccolo, bambino, or "pocket uke"), bass, and contrabass ukuleles. The soprano, often called "standard" in Hawaii, is the second-smallest and was the original size. The concert size was developed in the 1920s as an enhanced soprano, slightly larger and louder with a deeper tone. Shortly thereafter, the tenor was created, having more volume and deeper bass tone. The baritone (resembling a smaller tenor guitar) was created in the 1940s, and the contrabass and bass are recent innovations (2010 and 2014, respectively). [38][39]

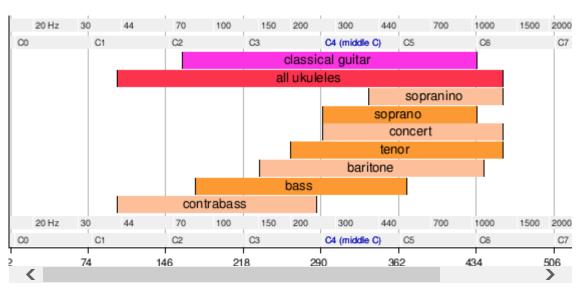




Soprano pineapple ukulele, baritone ukulele and taropatch baritone ukulele.

Туре	Alternate names	Typical length	Scale length	Frets	Range [41]	Common tuning ^[42]	
Pocket	piccolo, sopranino, sopranissimo	16 in (41 cm)	11 in (28 cm)	10 –12	G ₄ –E ₆	D ₅ G ₄ B ₄ E ₅	
Soprano	standard, ukulele	21 in (53 cm)	13 in (33 cm)	12 –15	C ₄ -A ₅ (C ⁶)	G ₄ C ₄ E ₄ A ₄ ^[43]	G ₃ C ₄
Concert	alto	23 in (58 cm)	15 in (38 cm)	15 –18	C ₄ –C ₆ (D ^{# 6})	G ₄ C ₄ E ₄ A ₄ ^[43]	
Tenor	taro patch, Liliʻu ^[44]	26 in (66 cm)	17 in (43 cm)	17 –19	G ₃ –D ₆ (E ⁶)	G ₄ C ₄ E ₄ A ₄ ("High G") G ₃ C ₄ E ₄ A ₄ ("Low G")	A ₃ D ₄ F D ₃ G ₃ I
Baritone	bari, bari uke, taropatch ^[45]	29 in (74 cm)	19 in (48 cm)	18 –21	D ₃ -A [#] ₅ (C ^{# 6})	D ₃ G ₃ B ₃ E ₄	
Bass ^[46]		30 in (76 cm)	20 in (51 cm)	16 –18	E ₂ –B ₄ (C ^{# 5})	E ₂ A ₂ D ₃ G ₃	
Contrabass	U-Bass, Rumbler ^[47]	32 in (81 cm)	21 in (53 cm)	16	E ₁ –B ₃	E ₁ A ₁ D ₂ G ₂	D ₁ /

Range of notes of standard ukulele types:





Ukuleles in a music store.

Note that range varies with the tuning and size of the instruments. The examples shown in the chart reflect the range of each instrument from the lowest standard tuning, to the highest fret in the highest standard tuning.

Tuning

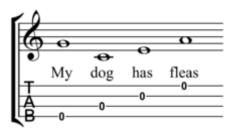
One of the most common tunings for the standard or soprano ukulele is \underline{C}^6 tuning: $G_4-C_4-E_4-A_4$, which is often remembered by the notes in the "My dog has fleas" jingle (see sidebar). The G string is tuned an octave higher than might be expected. This is known as a "reentrant tuning"; it enables uniquely close-harmony chording. A few players prefer "low G" tuning, with the G in sequence an octave lower: $G_3-C_4-E_4-A_4$, which is equivalent to playing the top 4 strings (DGBE) of a guitar with a capo on the 5th fret.

Another common tuning for the soprano ukulele is the higher string-tension D⁶ tuning (or simply D tuning), A_4 – D_4 – $F\sharp_4$ – B_4 , one step higher than the G_4 – C_4 – E_4 – A_4 tuning. Once considered standard, this tuning was commonly used during the Hawaiian music boom of the early 20th century, and is often seen in sheet music from this period, as well as in many method books through the 1980s. D⁶ tuning is said by some to bring out a sweeter tone in some ukuleles, generally smaller ones. D⁶ tuning with a low fourth string, A_3 – D_4 – $F\sharp_4$ – B_4 , is sometimes called "Canadian tuning" after its use in the Canadian school system, mostly on concert or tenor ukuleles, and extensive use by <u>James Hill</u> and J. Chalmers Doane. [49]

Whether C⁶ or D⁶ tuning should be the "standard" tuning is a matter of long and ongoing debate. There are historic and popular ukulele methods that have used each.^[50]



Ukulele C⁶ tuning Play .



"My dog has fleas" tuning.

Play

The "higher pitched" instruments (sopranino, soprano, concert) most often employ reentrant tuning, while the "lower pitched" instruments (baritone, bass, and often tenor) usually employ *linear* tuning, where the strings are tuned from low to high pitch across the instrument. For example, baritone is usually tuned to $D_3-G_3-B_3-E_4$ (like the highest four strings of a standard 6-string guitar). There are, however, exceptions, with some players preferring to place the tenor (and even, rarely, the baritone) into re-entrant tuning as well.

One of the main tuning differences between a baritone ukulele and any other ukulele is that the G string is tuned down an octave. The baritone resembles more of a guitar tuning than any other ukulele. It is also common to see electric ukuleles tuned this way (even if they are not a baritone).

Hawaiian ukuleles may also be tuned to <u>open tunings</u>, similar to the Hawaiian <u>slack key</u> style. [51]

Ukulele can be tuned like <u>Dotara</u> as well (a four string instrument played by the folk singers in <u>India</u> and <u>Bangladesh</u>) Ukulele can be tuned like Dotara in many patterns, but E-B-E-A is the easiest way to tune it as there are only two strings that need to be re-tuned.^[52]

Related instruments

Ukulele varieties include hybrid instruments such as the <u>guitalele</u> (also called guitarlele), <u>banjo ukulele</u> (also called banjolele), <u>harp ukulele</u>, <u>lap steel ukulele</u>, and the <u>ukelin</u>. It is very common to find Ukulele's mixed with other stringed instruments because of the amount of strings and the easy playing ability. There is an electrically amplified version, the <u>electric ukulele</u>. The <u>resonator ukulele</u> produces sound by one or more spun aluminum cones (<u>resonators</u>) instead of the wooden soundboard, giving it a distinct and louder tone. The <u>Tahitian ukulele</u>, another variant, is usually carved from a single piece of wood, ^[53] and does not have a hollow <u>soundbox</u>.

Close cousins of the ukulele include the Portuguese forerunners, the <u>cavaquinho</u> (also commonly known as <u>machete</u> or <u>braguinha</u>) and the slightly larger <u>rajão</u>. Other relatives include, the <u>Venezuelan cuatro</u>, the <u>Colombian tiple</u>, the <u>timple</u> of the <u>Canary Islands</u>, the <u>Spanish vihuela</u>, the Mexican <u>requinto jarocho</u>, and the <u>Andean charango</u> traditionally made of an armadillo shell. In Indonesia, a similar Portuguese-inspired instrument is the kroncong. [54]

Audio samples

See also

- Cavaquinho
- Cuatro (instrument)
- List of ukulele musicians
- Machete (instrument)
- Stringed instrument tunings

References

- "ukulele" (http://oed.com/search?searchType=dictionary&q=ukulele). Oxford English Dictionary (3rd ed.). Oxford University Press. September 2005. (Subscription or UK public library membership (http://www.oed.com/public/login/loggingin#withyourlibrary) required.)
- 2. Erich M. von Hornbostel & Curt Sachs, "Classification of Musical Instruments: Translated from the Original German by Anthony Baines and Klaus P. Wachsmann." *The Galpin Society Journal* 14, 1961: 3–29.
- 3. "Ukulele" (http://www.merriam-webster.com/dictionary/ukulele). Merriam-Webster. Retrieved 22 January 2016.
- 4. Tranquada and King (2012). The Ukulele, A History. Hawaii University Press. ISBN 978-0-8248-3634-4.
- 5. Beloff 2003, p. 13
- 6. Catalogue of the Crosby Brown Collection of Musical Instruments of All Nations. Volume III. Instruments of Savage Tribes and Semi-Civilized Peoples, Part 2. Oceania. New York: Metropolitan Museum of Art. 1907. p. 51.
- Nidel, Richard (2004). World Music: The Basics (https://archive.org/details/worldmusic00rich_0/page/312).
 Routledge. p. 312 (https://archive.org/details/worldmusic00rich_0/page/312). ISBN 978-0-415-96800-3.
- 8. Roberts, Helen (1926). Ancient Hawaiian Music. Bernice P. Bishop Museum. pp. 9–10.
- 9. King, John (2003). "Prolegomena to a History of the 'Ukulele". Ukulele Guild of Hawai'i. Missing or empty | url= (help)
- 10. "David Kalakaua (1836–1891), Inaugural Hall of Fame Inductee, 1997" (http://www.ukulele.org/?Inductees:1997-1998:David_Kalakaua). Ukulele Hall of Fame Museum. 2008. Retrieved 2008-06-11.
- Karr, Gary, and McMillan, Barclay (1992). "J. Chalmers
 Doane" (http://www.thecanadianencyclopedia.com/en/article/j-chalmers-doane-emc/). Encyclopedia of Music in Canada. University of Toronto Press. Retrieved 2008-06-09.
- 12. Beloff 2003, p. 111
- 13. Beloff, Jim (2003). The Ukulele: A Visual History. Backbeat books. p. 110. ISBN 978-0-87930-758-5.
- 14. Fladmark, Judy (2010-02-19). "Ukulele sends UK crazy" (http://news.bbc.co.uk/2/hi/uk_news/magazine/8523082.stm). BBC News.
- 15. Tranquada, Jim (2012). The Ukulele: a History. University of Hawaii Press. p. 152. ISBN 978-0-8248-3544-6.
- 16. Lipsky, William (2005). San Francisco's Panama-Pacific International Exposition. Arcadia Publishing. p. 36. ISBN 978-0-7385-3009-3.

- 17. Doyle, Peter (2005). Echo and Reverb: Fabricating Space in Popular Music Recording, 1900–1960. Wesleyan. p. 120. ISBN 978-0-8195-6794-9.
- 18. "Jonah Kumalae (1875–1940), 2002 Hall of Fame Inductee" (http://www.ukulele.org/?Inductees:2002-2003:Jonah_Kumalae). Ukulele Hall of Fame Museum. 2007. Retrieved 2008-06-02.
- 19. Koskoff, Ellen (2005). *Music Cultures in the United States: An Introduction*. Routledge. p. 129. ISBN 978-0-415-96588-0.
- 20. Volk, Andy (2003). Lap Steel Guitar. Centerstream Publications. p. 6. ISBN 978-1-57424-134-1.
- 21. Whitcomb, Ian (2000). <u>Ukulele Heaven: Songs from the Golden Age of the Ukulele</u> (https://archive.org/details/ukuleleheavenson00whit/page/11). Mel Bay Publications. p. <u>11</u> (https://archive.org/details/ukuleleheavenson00whit/page/11). ISBN 978-0-7866-4951-8.
- 22. Whitcomb, Ian (2001). *Uke Ballads: A Treasury of Twenty-five Love Songs Old and New*. Mel Bay Publications. p. 4. ISBN 978-0-7866-1360-1.
- 23. Sanjek, Russell (1988). *American Popular Music and Its Business: The First Four Hundred Years*. Oxford University Press. p. 95. ISBN 0-19-504311-1.
- 24. Rev, Lil'. "Just a few penny dreadfuls": the Ukulele and Old-Time Country

 Music" (http://www.oldtimeherald.org/archive/back_issues/volume-9/9-5/uke.html). www.oldtimeherald.org. Retrieved 2018-06-27.
- 25. Wright, Michael. "Maccaferri History: The Guitars of Mario Maccaferri" (https://web.archive.org/web/20090625165925/http://www.vguitar.com/features/brands/details.asp? AID=1071). Vintage Guitar. Archived from the original (http://www.vguitar.com/features/brands/details.asp? AID=1071) on 2009-06-25. Retrieved 2008-06-02.
- 26. <u>"The Ukulele" (https://web.archive.org/web/20111103171108/http://www.peterboroughmusicltd.com/ukulele.irs).</u>

 Peterborough Music. 3 March 2002. Archived from the original (http://www.peterboroughmusicltd.com/ukulele.irs) on 3 November 2011. Retrieved 2011-09-15. The Ukulele
- 27. "Arthur Godfrey (1903–1983), 2001 Hall of Fame Inductee" (http://www.ukulele.org/?Inductees:2000-2001:Arthur_Godfrey). Ukulele Hall of Fame Museum. 2007. Retrieved 2008-06-02.
- 28. John Shepherd (27 February 2003). Continuum encyclopedia of popular music of the world: Volumell: Performance and production (https://books.google.com/books?id=pJvzEzjahkQC&pg=PA450). Continuum International Publishing Group. pp. 450–. ISBN 978-0-8264-6322-7. Retrieved 16 April 2011.
- 29. Mighty Uke, Interview with Jim Beloff, 2010
- 30. Billboard, for the survey week ending January 18, 2004.
- 31. cromulantman (22 April 2006). "Ukulele weeps by Jake Shimabukuro" (https://www.youtube.com/watch? v=puSkP3uym5k). Retrieved 3 April 2019 via YouTube.
- 32. "Ukulele Strings C.F. Martin & Co" (https://www.martinguitar.com/strings/ukulele/). Retrieved 30 November 2016.
- 33. "Aquila Nylgut Ukulele Strings, wholesale source for retailers and dealers" (http://www.aquilausa.com/uke_strings.html). Retrieved 30 November 2016.
- 34. <u>"110mb.com Want to start a website?" (https://web.archive.org/web/20130621113819/http://stringedinstrumentdatabase.110mb.com/u.htm)</u>. Archived from the original (http://stringedinstrumentdatabase.110mb.com/u.htm) on 2013-06-21. Retrieved 30 November 2016.
- 35. <u>"Kamaka Baritone 8 String HF-48" (http://www.theukulelesite.com/kamaka-baritone-8-string-hf-48.html)</u>. Retrieved 30 November 2016.
- 36. "Kala -KA-ATP-CTG Solid Cedar Top Tenor Slothead -Gloss Finish" (http://www.theukulelesite.com/shop-by/popular-models/kala-ka-atp5-ctg-solid-cedar-top-5-string-tenor.html). Retrieved 30 November 2016.
- 37. "Lamorinda Music" (http://www.lamorindamusic.com/uke_101.htm). Retrieved 30 November 2016.
- 38. <u>"The story behind the wildly popular Kala U-Bass" (http://forbassplayersonly.com/news-features-the-story-behind-the-kala-u-bass/)</u>. 7 January 2015. Retrieved 30 November 2016.

- 39. "Uke Baritone Bass w/Preamp Tattoo Luna Guitars" (http://www.lunaguitars.com/query?upc=819998182960). Retrieved 30 November 2016.
- 40. The "scale" is the length of the playable part of the strings, from the nut at the top to the bridge at the bottom.
- 41. Exact range depends on the tuning and the number of frets.
- 42. On the soprano, concert, and tenor instruments, the most common tuning results in a "bottom" string that is *not* the lowest in *pitch*, as it is tuned a 5th higher than the next string (and a major 2nd below the "top" string). This is called *re-entrant tuning*.
- 43. "Ukulele/Banjouke" (http://www.aquilacorde.com/modern-instrument-sets/modern-instrument/3190/ukulele/?lang=en). 2 January 2014. Retrieved 30 November 2016.
- 44. Tenor ukuleles exist in a variety of styles, with 4, 5, 6, and 8 strings. What the tenor is called depends on which style it has been designed in.
- 45. Eight-string "taropatch" baritone ukuleles have been made; however, they are very rare. See, for example, the **Kamaka** *HF-48*
- 46. See the **Luna** Uke Bass and the **Kala** U-Bass
- 47. U-Bass and Rumbler are trade names of the Kala ukulele company
- 48. "Ukulele in the Classroom" (https://ukuleleintheclassroom.com/tunings.htm). Retrieved 30 November 2016.
- 49. "James Hill FAQ" (http://jameshillmusic.com/faq#tuning). Retrieved 30 November 2016.
- 50. Tranquada, J.; *The Ukulele: A History*; University of Hawaii Press; Honolulu: 2012. 0824-83634-0 According to Tranquanda, ""This is an old and seemingly never-ending argument. While the pioneering methods of Kaai (1906) and Rollinson (1909) both use C tuning, a sampling of the methods that follow give a sense of the unresolved nature of the debate: Kealakai (1914), D tuning; Bailey (1914), C tuning; Kia (1914), D tuning; Kamiki (1916), D tuning; Guckert (1917), C tuning; Stumpf (1917), D tuning."
- 51. Kimura, Heeday. How to Play Slack Key Ukulule.
- 52. Ovi, Rahatul Islam (24 April 2017). <u>"Ukulele Dotara Style Tuning ইউকালেলি দোতারা স্টাইল</u> টিউনিং" (https://www.youtube.com/watch?v=Fyr1iT27MzE). Rahatul & Dukulele. Retrieved 24 April 2017 via YouTube.
- 53. University of the South Pacific. Institute of Pacific Studies (2003). <u>Cook Islands culture</u> (https://books.google.com/books?id=vycNAQAAMAAJ). Institute of Pacific Studies in Association with the Cook Islands Extension Centre, University of the South Pacific, the Cook Islands Cultural and Historic Places Trust, and the Ministry of Cultural Development. <u>ISBN</u> 978-982-02-0348-8. Retrieved 15 September 2012.
- 54. <u>Jeremy Wallach</u> (22 October 2008). <u>Modern Noise, Fluid Genres: Popular Music in Indonesia, 1997–2001</u> (https://books.google.com/books?id=IYVm57GRa9kC&pg=PA268). Univ of Wisconsin Press. pp. 268–. <u>ISBN</u> <u>978-0-299-22904-7</u>. Retrieved 15 September 2012.

Bibliography

- Beloff (2003) [1997]. *The Ukulele: A Visual History* (Revised & Expanded ed.). San Francisco: Backbeat Books. ISBN 0-87930-758-7.
- Tranquada, Jim; King, John (2012). *The Ukulele: A History*. Honolulu, Hawaii: University of Hawaii Press. ISBN 978-0-8248-3634-4.

External links

- "Bass Ukulele utilizing Ashbory strings" (http://www.largesound.com/ashboryarticle/concept/ukulele).
 largesound.com.
- "The Ukulele & You" (http://www.museumofmakingmusic.org/ukulele). *Museum of Making Music*. Carlsbad, CA. An exhibition that details the ukulele's history and waves of mainstream popularity.

"Ukulele Brand name database" (http://www.tikiking.com/uke_database.html). Tiki King. Information about over 600 ukulele makers past and present.

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