

Dave Gilberd loves making things. When he was a boy, he spent a lot of time building toy planes and boats out of wood. He's been making things ever since. Now Dave works full-time building beautiful ukuleles and guitars. When Dave was at high school, he learnt to play the ukulele. He enjoyed playing it so much that he decided he would like to make a ukulele himself. Dave went to see a luthier (a person who makes stringed instruments, such as violins, guitars, and ukuleles). The luthier taught Dave how to make a ukulele.

Dave's first ukulele didn't look very good, but it sounded OK. What's more, Dave really enjoyed making it, so he made another ... and another. Now, Dave is a luthier himself.



Making a ukulele

The first thing Dave does when he makes a ukulele is to draw a plan. The plan shows the size and shape of all the pieces he will need to make and how all the pieces will fit together.



Then Dave chooses the wood for the ukulele. The wood needs to look and sound beautiful and be strong but flexible (easy to bend). Dave taps the wood to hear if it makes a nice sound. Dave draws the shape of the ukulele body on one of the pieces of wood, then he cuts a hole in it. This is the "sound hole". It makes the sound of a ukulele louder. Then Dave cuts out the shape.





Next, Dave cuts out the other pieces of wood and sands each piece to make it smooth.

Then he takes the strips of wood for the sides of the ukulele and wets them. He uses a hot iron to bend the wet wood into the right shape.



Bending the wet wood

Now it's time to start putting the ukulele together. Carefully, Dave puts the pieces into a frame called a jig. The jig has little posts that help Dave make sure the pieces are in the right place and that keep the ukulele still while he works on it. The jig also has slots for ties posts to go through.

Dave adds each piece in a particular order. He puts the top down first. Then he glues bracing to the inside of the top. The bracing will make the ukulele stronger.

Next, Dave glues the neck to the top. He uses a clamp to hold the pieces in the right place. Then he waits for the glue to dry.

Next, he glues the sides in place, and ... waits for the glue to dry.

The ukulele with the sides glued on



The ukulele in the jig

sides



Then, he glues on the back, puts ties through the slots to hold it in place, and ... waits for the glue to dry.

He uses a hammer to put the frets (small pieces of metal) into their slots along the fretboard. (The frets show where to press the strings to play each note.)

Finally, Dave glues on the fretboard and the bridge, and ... waits for the glue to dry.







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It takes about a week to make a ukulele. A lot of that time is spent waiting for glue to dry!

Once everything *is* dry, Dave sands the ukulele to smooth away any rough edges. Then he paints it with a clear oil to help keep it strong.

Then he screws the tuning pegs into place.









missing, though. Can you guess what it is?



Now the new ukulele is ready to play.







The Ukulele Maker

by Bronwen Wall

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