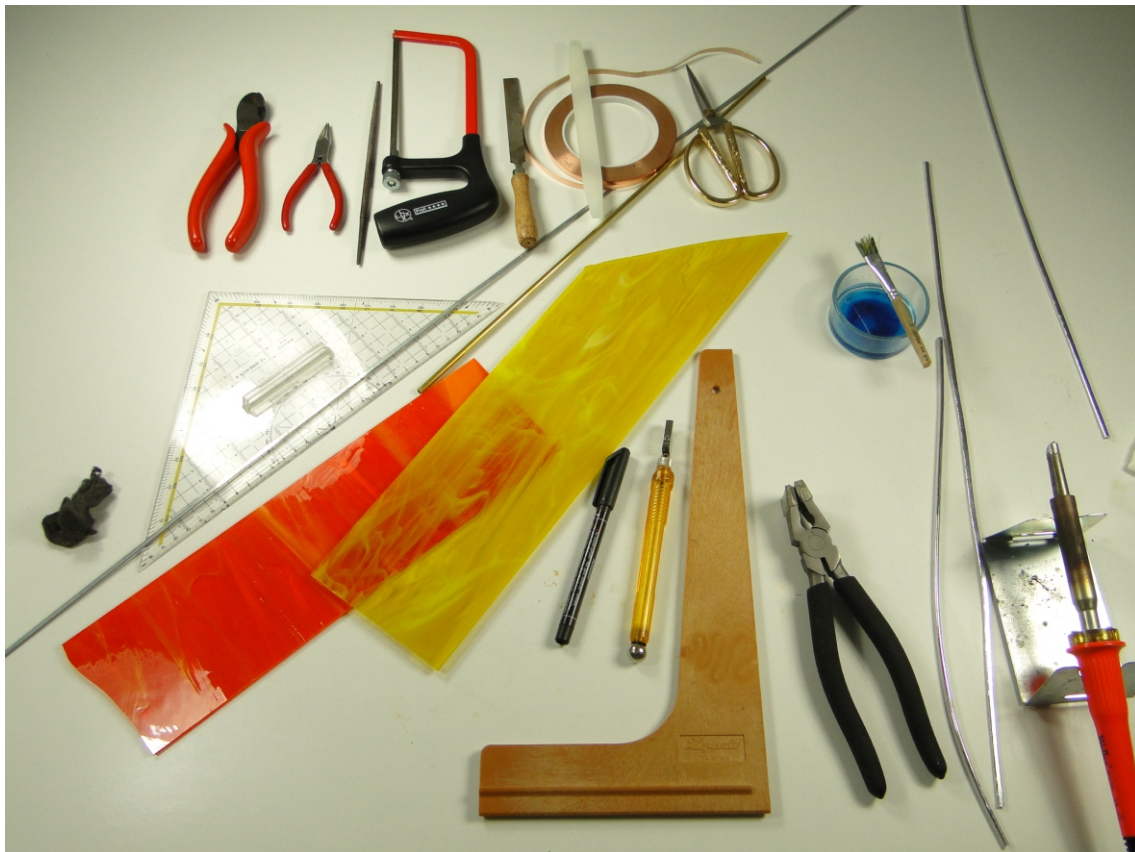


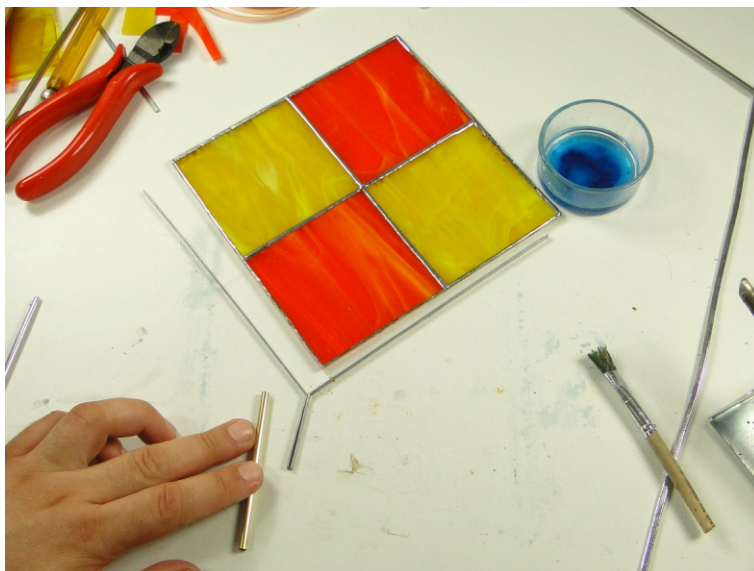
Gardenstick - Construction guide of metal frame

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Garden Stick

Step by step - Construction guide of metal frame



The principle is simple ..
Around the actual glass work,
solder on a metal frame.

Use a stainless steel rod
as a stand – and you're all set.

These instructions show the
construction of metal hardware,
identifies the materials and
describes their processing.



Here is an overview of all required Materials and tools:

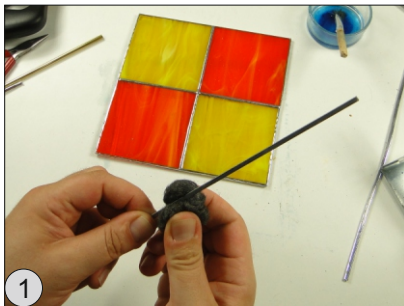
Metal parts:

1 piece 9cm: brass tube with a diameter of 5mm and wall thickness of about 0.45 mm

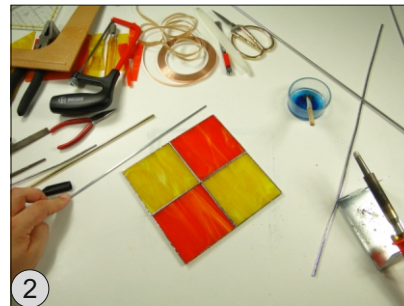
1 meter: metal strip 3.6 x1mm

1 stainless steel rod 4mm thick.

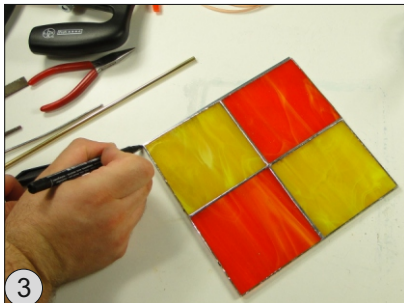
As a stained glass I have chosen Spectrum Glass yellow 369-1 and orange 379-1.



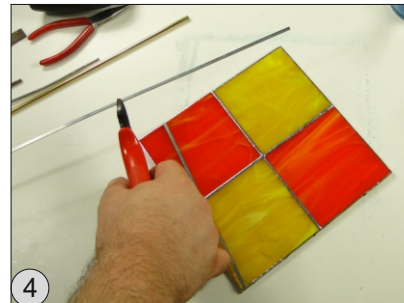
The glass screen is done soldering ..
It is now the Framework and a Recording, so that the image later on will stand on a stainless steel rod stand.



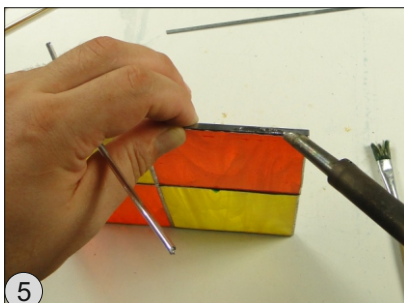
The first step is to remove with thin layer of oxide from the metal strip and brass tube, using steel wool. Simply rub the steel wool all over the metal strip and brass pipe, until everything is blank...



Place the metal strips and mark the points
... where you

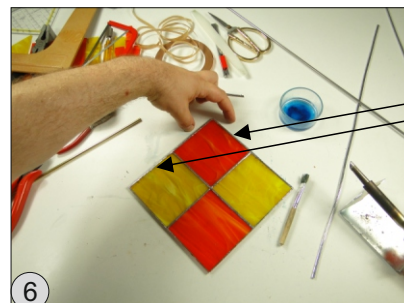


... can cut off the stripes the most easiest, using suitable pliers...
you can also use a saw instead of pliers.

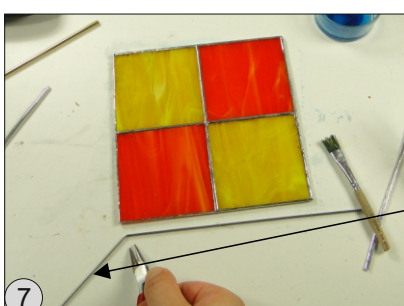


Solder on the strip as shown here by the page.

.. first from both sides, and then slightly tin the top part...

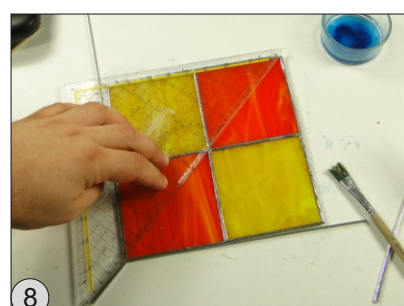


Next step is to crop and solder on these two metal strips...

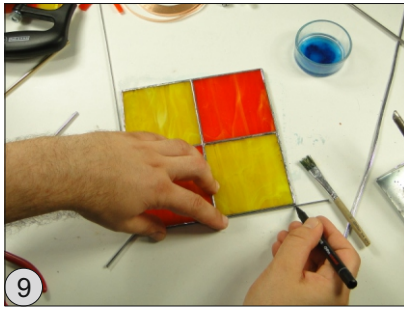


Now bend the other two Metal strips - with a 45° angle at the end.

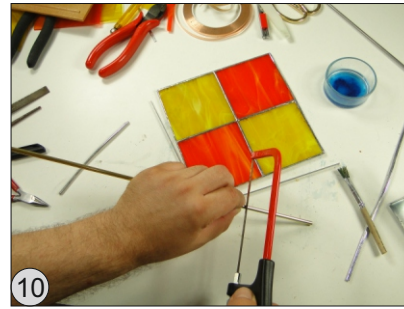
Cut of the end to 4.5 cm



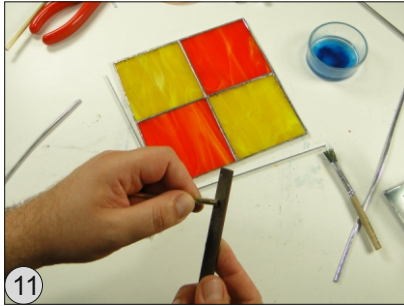
This is how you can control the angle:
When the metal strip below, keeps on following the measured centerline, then everything is right where it should be ...



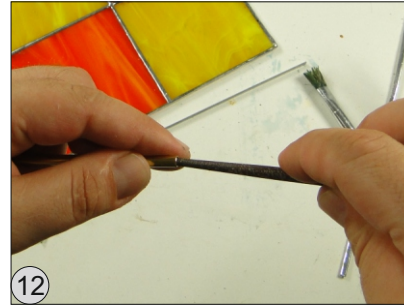
Now cut off
the outer ends...



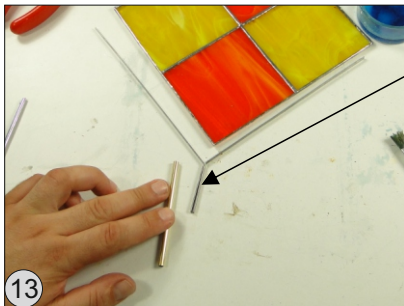
Cut off a 9 cm
long piece of the
brass tube.



Deburr the tube ..

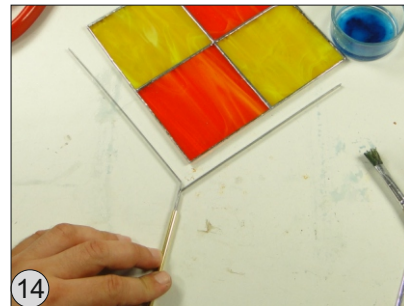


the inside as well,
if possible ..

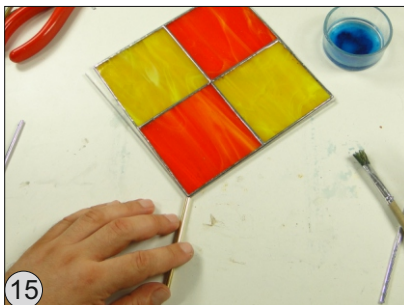


You can now solder
together metal strips.

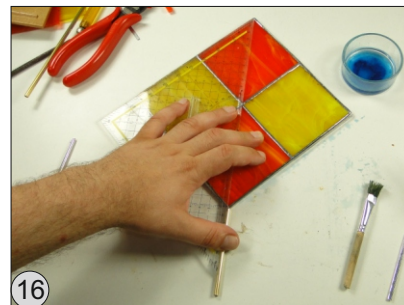
By doing this,
you increase
additional stability ...



Now slide
the brass tube over
the bridge below ..

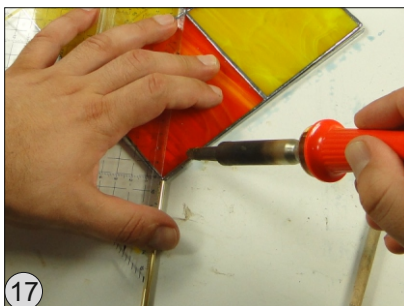


Set this connection
onto the
glass panel.

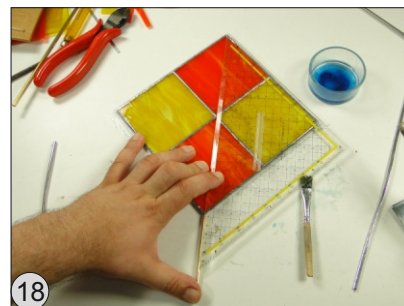


.. Check once more ..

Make sure the angle
fits, so that the glass
will stand up straight
and evenly,
later on...



First, mount on the
metal strip together
by a solder point.



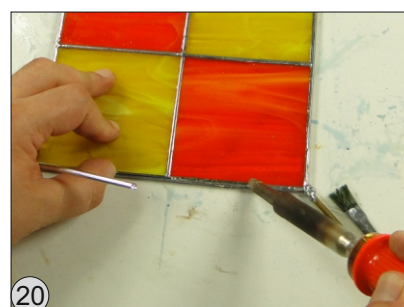
...then completely
solder off the other
side and strips.



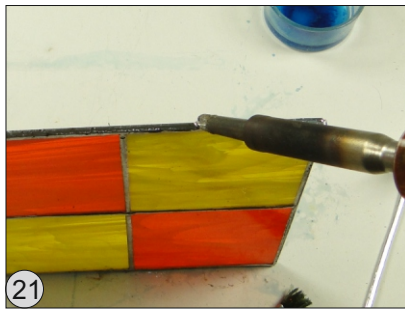
At the cutting point,
use some more tin,
when soldering.

Fill up the passage
junction with tin ...

This increases the
stability.



Cleanly resolder
the metal strips
sidewise.



Drag the hot iron using only a little bit of tin, along the outside of the metal strip...

This is how you obtain that cleanly brazed edge.



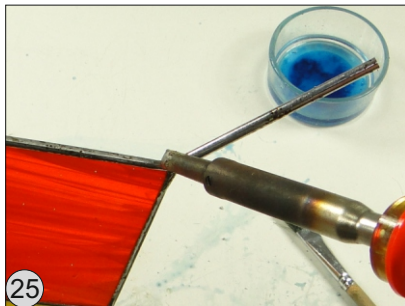
Resolder the vertices with a small drop of tin.



Now tin off the brass tube. (After you done soldering off the M-Strips, as shown in picture 13, start connecting the strips with the tube also in the inside as well)

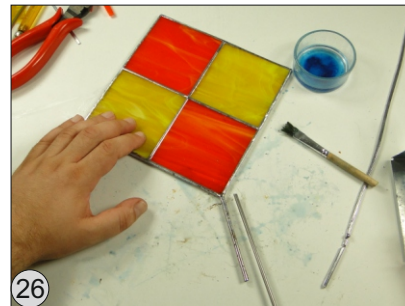


Cleanly resolder the junction one more time.

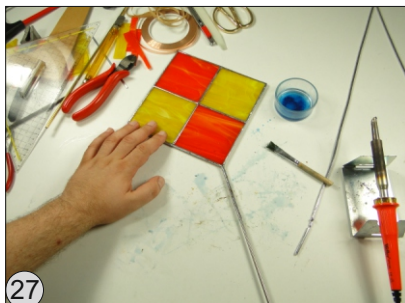


...do this also sideways...

It is all about stability and that beautiful look ..



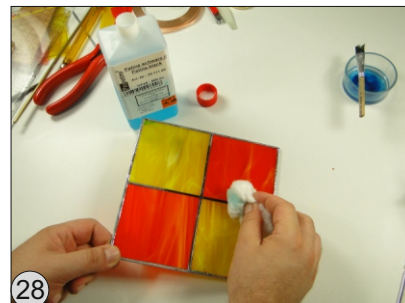
Once done soldering.. check to see if the stainless steel rod fits inside brass tube - if not, keep on filing the tubes inside till it fits . The rod extends about 4.5 cm into the brass tube.



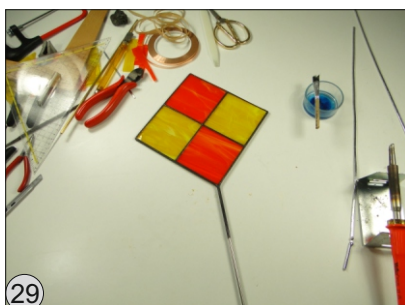
DONE

Good job.

Now wash the glass work clean and as you desire....



patinate the seams ..



Now you're finally done.

. Garden sticks are always a good place
- On the balcony, in the garden or houseplants
They are also a great gift idea!

A few general notes on the materials used in the metal frame:

Materials should be in color glass trade actually known under the following numbers:

4252000 - You need 9 cm
1 meter brass tube with an outside diameter and 5mm wall thickness 0.45 mm

4220000 - You will need 1 meter
Metal strips 1mm x 3.6 - usually as "wrench" means.

4mm thick stainless steel rod: 1361025 (25cm long), 1361050 (50cm long) or 1361099 (100cm long)

All information without guarantee.