

andrew harris woodwork

Patio Table



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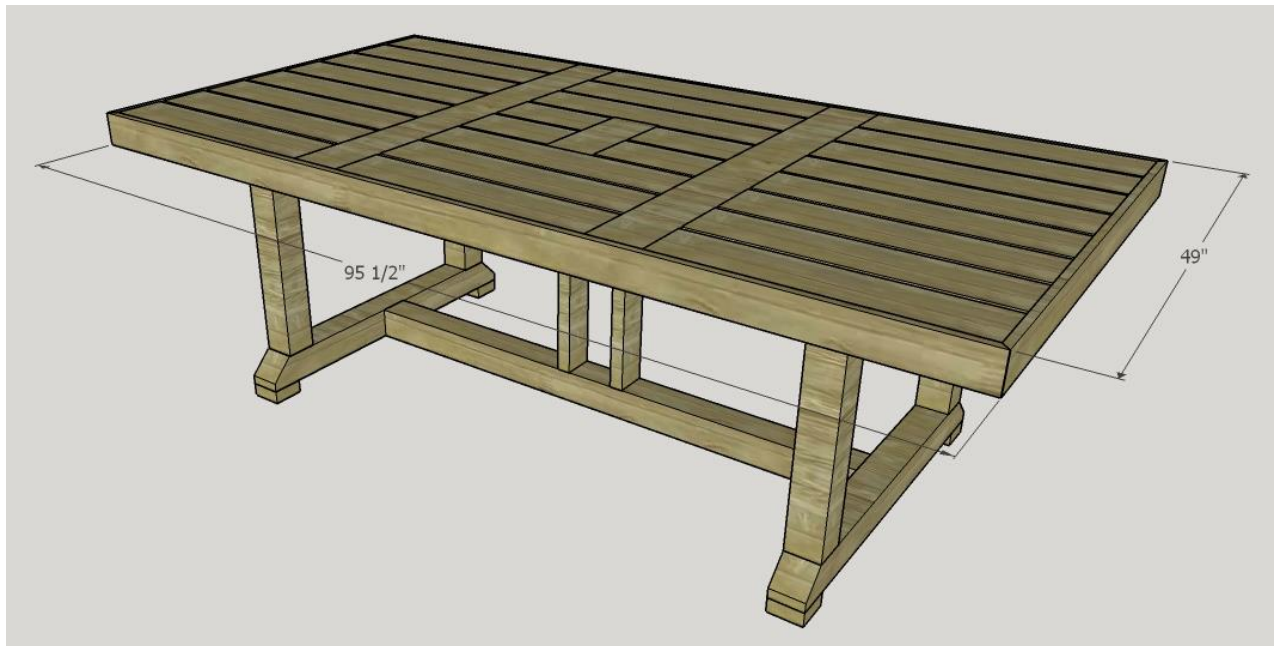
Introduction

This plan makes a table that is unit which is 95 ½ inches long and 49 inches wide.

The distance from the underside of the top edging to the floor is 28 ¾ inches. Adjust the height of the legs as required to fit your chairs.

I have tried to ensure all steps are covered in these plans but if you find any errors in the plans or have a question then please email me at info@andrewharriswoodwork.com to let me know.

All my builds are made with pocket hole joinery. You will need a pocket hole jig tool such as a Kreg Pocket Hole Jig in order to build them.



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Shopping List

Size	Length	Quantity	Board Number
4 by 4	8 feet	3	1, 2, 3
2 by 4	8 feet	9	4 to 12
1 by 4	8 feet	4	13, 14, 15, 16
1 by 6	8 feet	9	17, 25

You will also need:

- 1.25 inch pocket screws (Such as the Kreg Blue Cote ones suitable for use on outside applications)
- 2.5 inch pocket screws (Such as the Kreg Blue Cote ones suitable for use on outside applications)
- 1.25 inch wood screws (suitable for outside use)
- Wood glue
- Miter Saw

Estimated Material Cost: \$150

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Cut list

Please read all instructions before cutting wood as shown below. I suggest some pieces are cut as you go to ensure a tight fit.

To minimize the number of boards to use plan your cuts I have given details of which board I cut the piece from. If you find a more economical solution then please let me know.

Size	Length (inches)	Quantity	Used For	Board Number
4 by 4	40	2	Legs	1
4 by 4	23 ½	4	Legs	3
4 by 4	62	1	Leg Stretcher	2
2 by 4	40	2	Legs	4
2 by 4	62	2	Top support	8, 9
2 by 4	46	2	Top support	5
2 by 4	39	3	Top support	Two from 10 and one from 11
2 by 4	12 ½	4	Top support	One from 7, Two from 8 and One from 9
2 by 4	13 ¼	4	Top support	One from 4, Two from 6 and One from 7
2 by 4	13	2	Top Support	12
2 by 4	62	2	Leg Stretcher	6, 7
2 by 4	3.5	4	Feet pads	10
1 by 6	27 ½	16	Top	17, 18, 19, 20, 21 and one from 22
1 by 6	28	6	Top	Two from 22, three from 23, One from 24
1 by 6	11 ¼	4	Top	24
1 by 6	12 ½	1	Top	17
1 by 6	47.5	2	Top	25
1 by 4	95 ½	2	Top Edging	13 and 14
1 by 4	49	2	Top Edging	15 and 16
2 by 4	25	2	Top Vertical Support	11
2 by 4	5.5	3	Top Vertical support	One from each of 8, 9 and 11

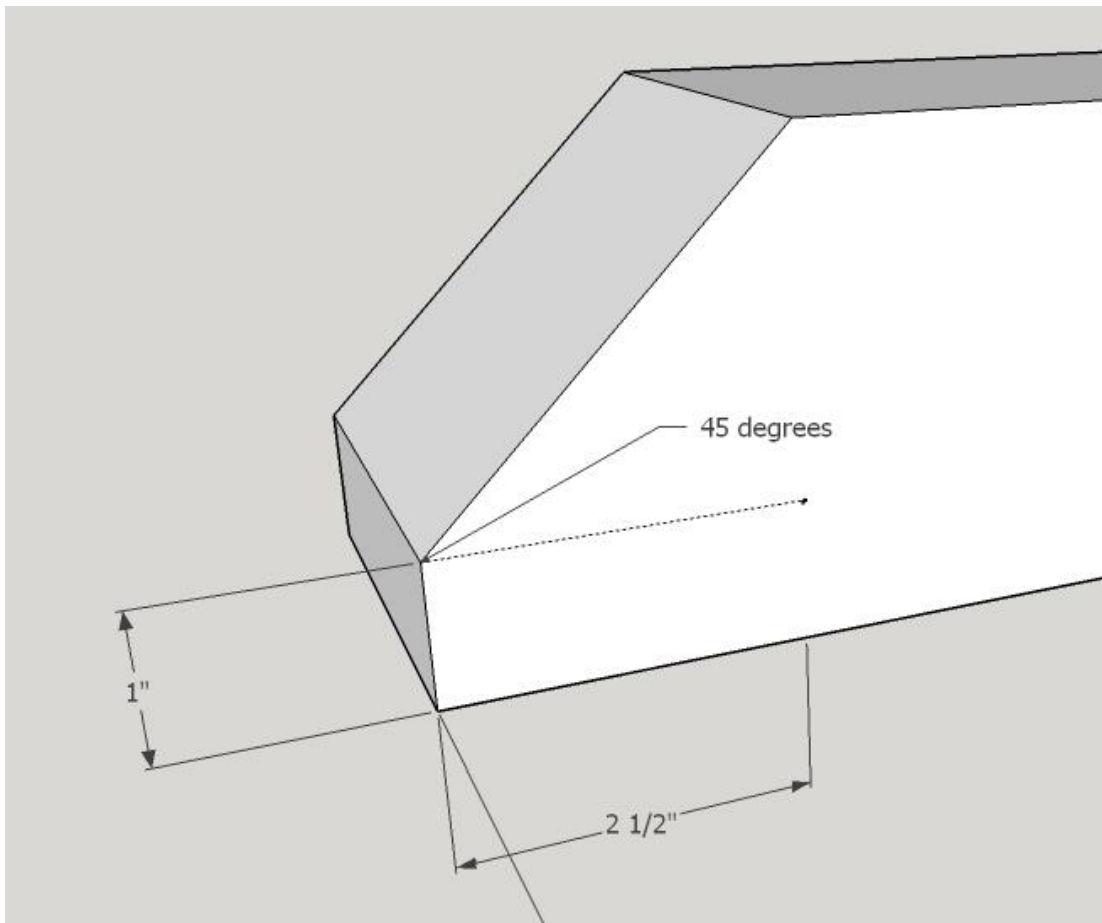
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Making the Legs

Step 1 – Cut the angled legs

Cut the angled ends of the legs. Mark 1 inch up from the bottom corner. Use a square to draw a 45 degree line from that point to the top side of the piece.

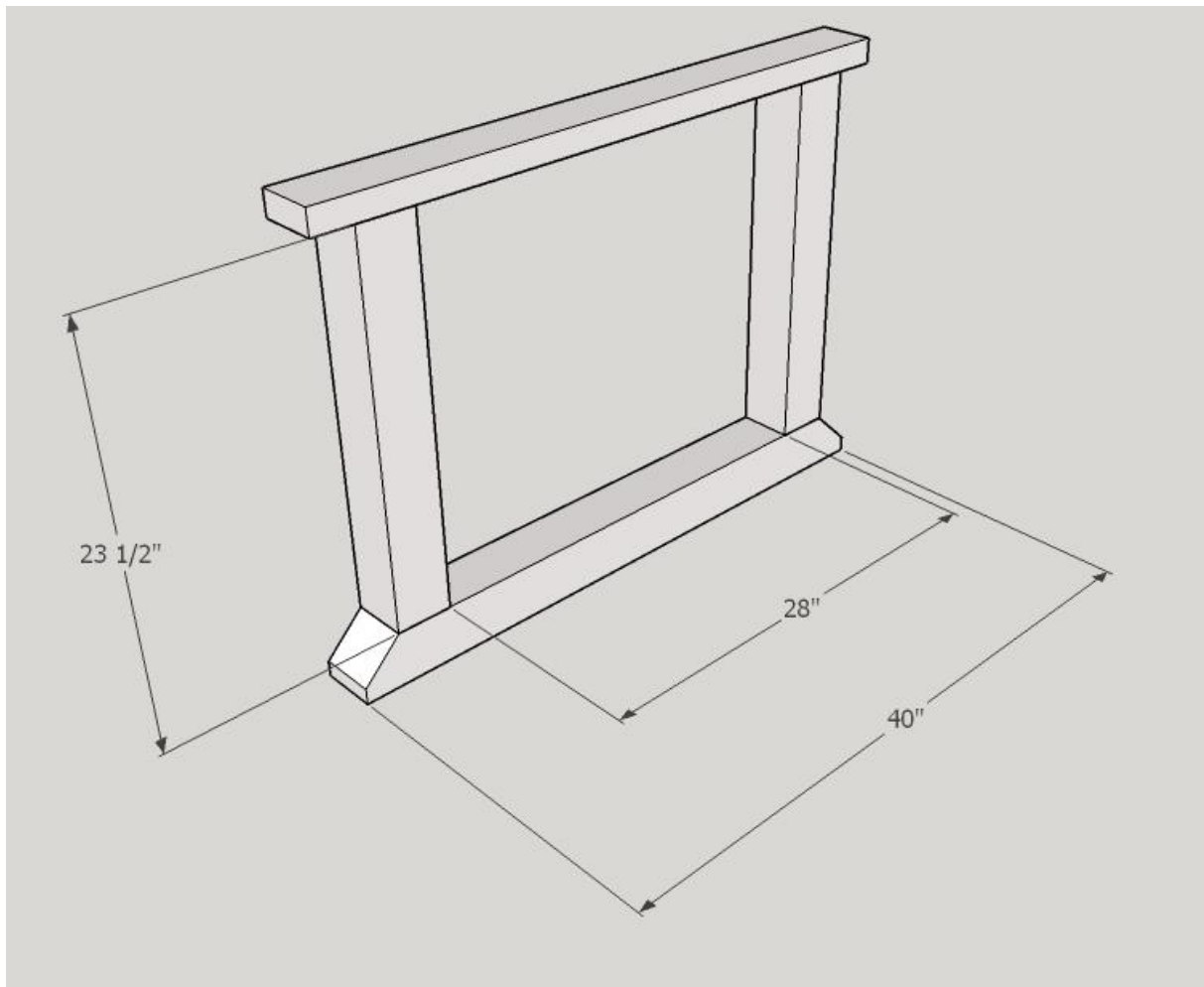
Use a miter saw to cut the piece on that 45 degree line. Do this on both ends of the piece.



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Step 2 – Make the two Side frames

Make the two leg frames using the 40 inch lengths of 4 by 4, 23 ½ inch lengths of 4 by 4 and 40 inch pieces of 2 by 4.

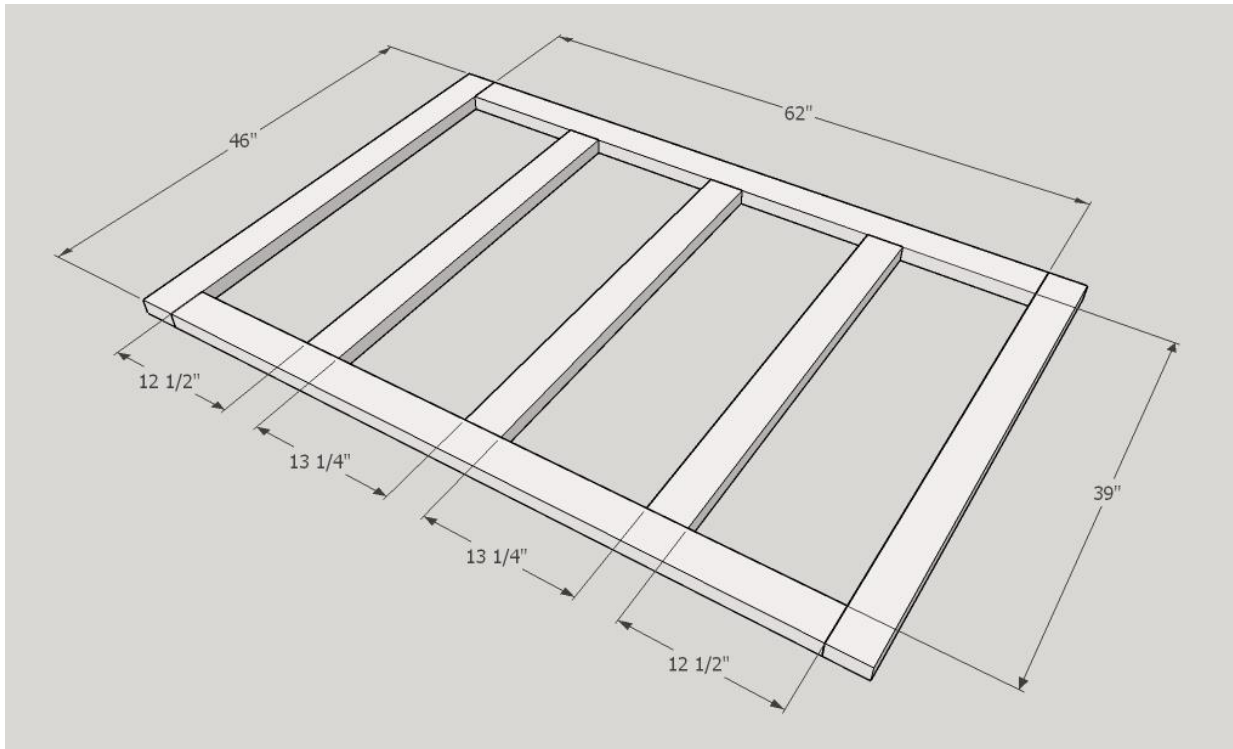


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Step 3 – Make the top support

I made a support frame for the top so that hopefully as the weather takes it toll on the table the top will still be rigid.

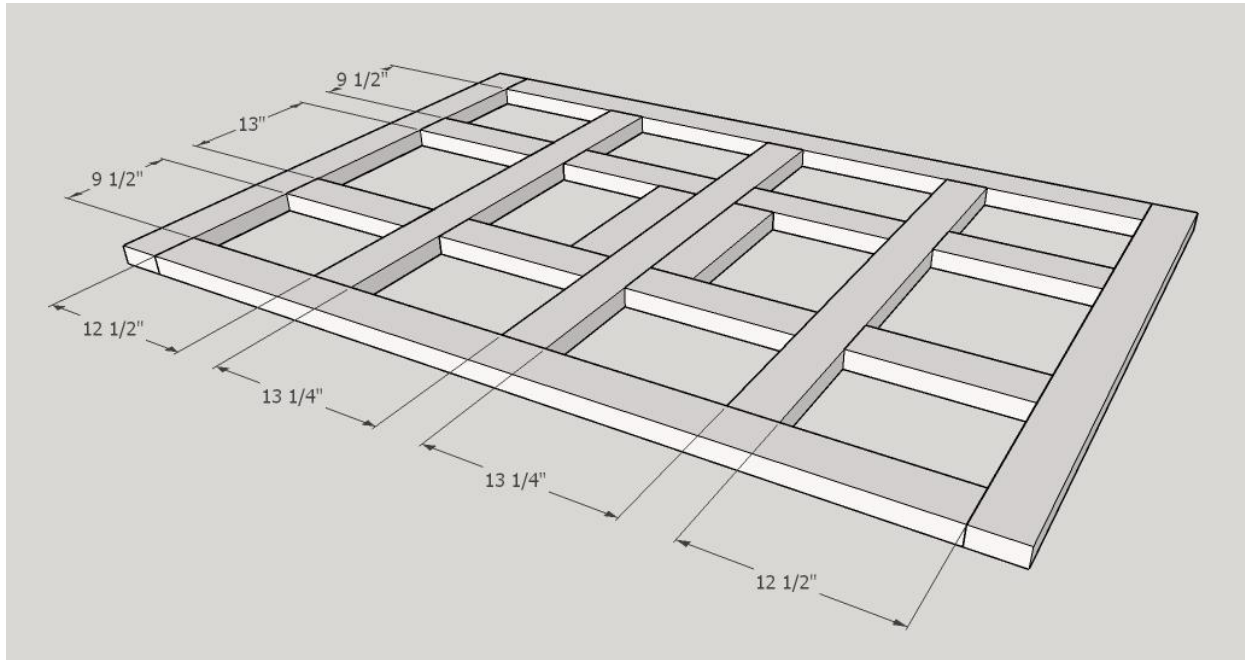
Make the front and back frames using the 2 by 4 pieces shown.



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Step 4 – Add the cross pieces to Top Support

Add the smaller pieces to the top support to give more rigidity. The diagram shows the size you should need but cut each one to size as you go for a tight fit.

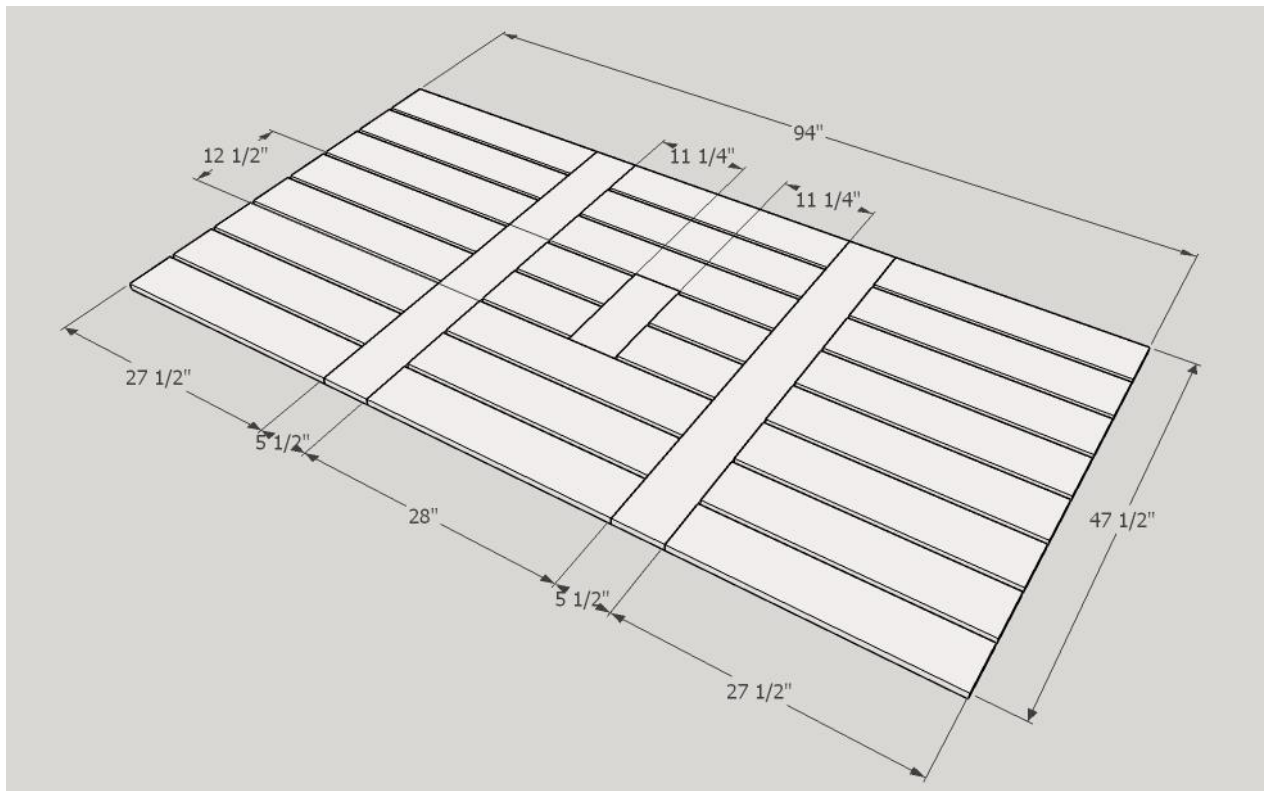


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Step 5 – Make the Top

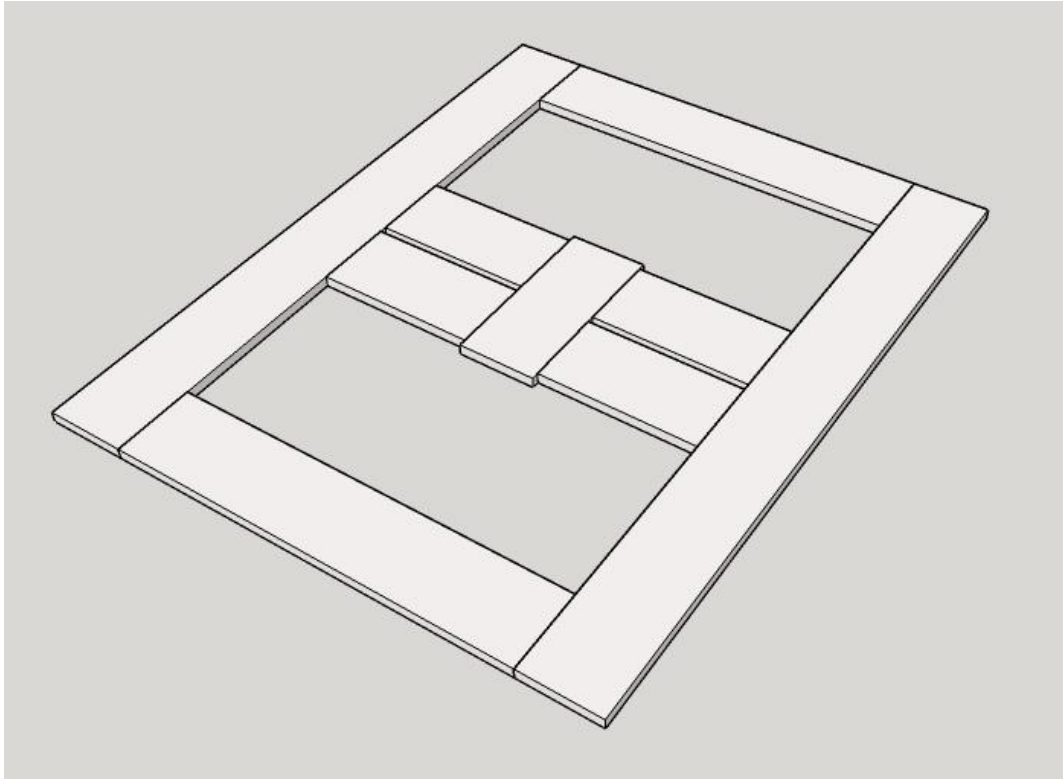
Make the top from the 1 by 6 pieces as shown. I used three pocket holes on the short end of each piece just to try to minimize any warping.

There is approximately $\frac{1}{2}$ inch gap between each board.



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Unless you have really long reach clamps, I suggest you start with the section shown below and join the outside parts of that and then start in the middle and work your way out. This way you will be able to clamp each piece.



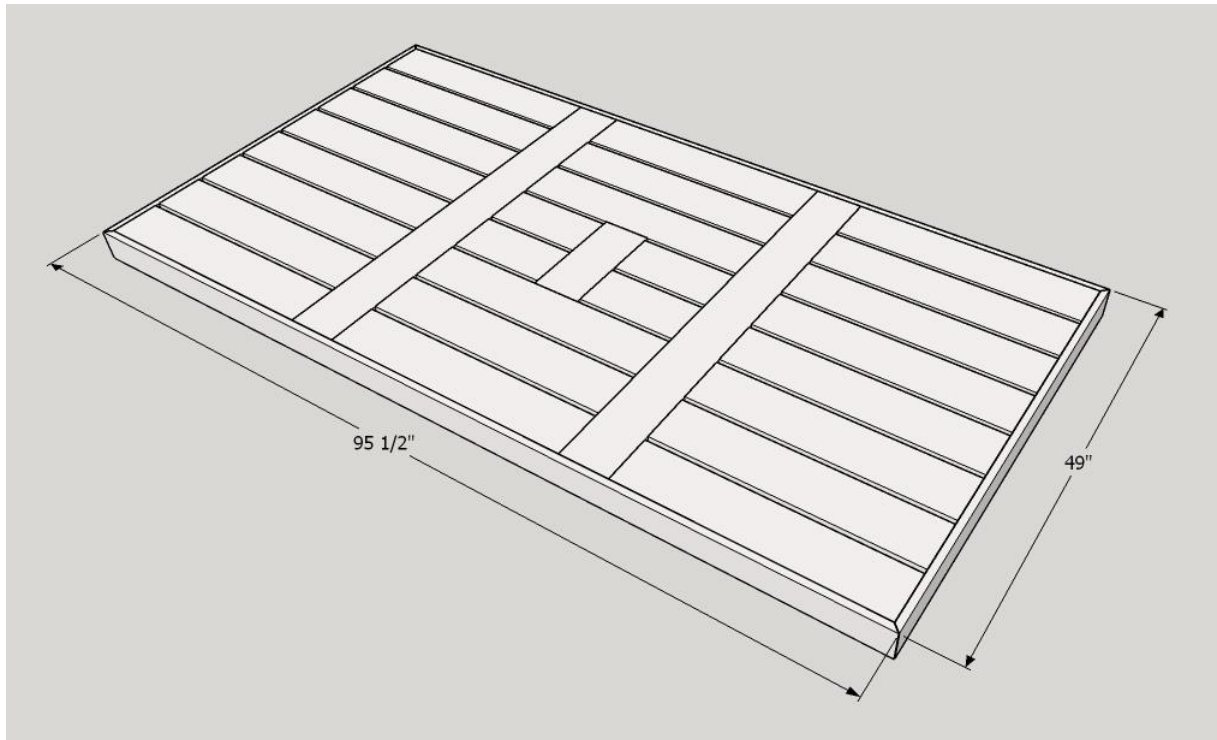
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Step 6 – Add Top Edging

I added a vertical edging to the top to give it some rigidity and to hopefully minimize warping.

I added 1 by 4 as shown and mitered the corners. If you don't miter the corners then the lengths will need to be modified accordingly.

Cut each piece and attach in turn to ensure a tight fit.

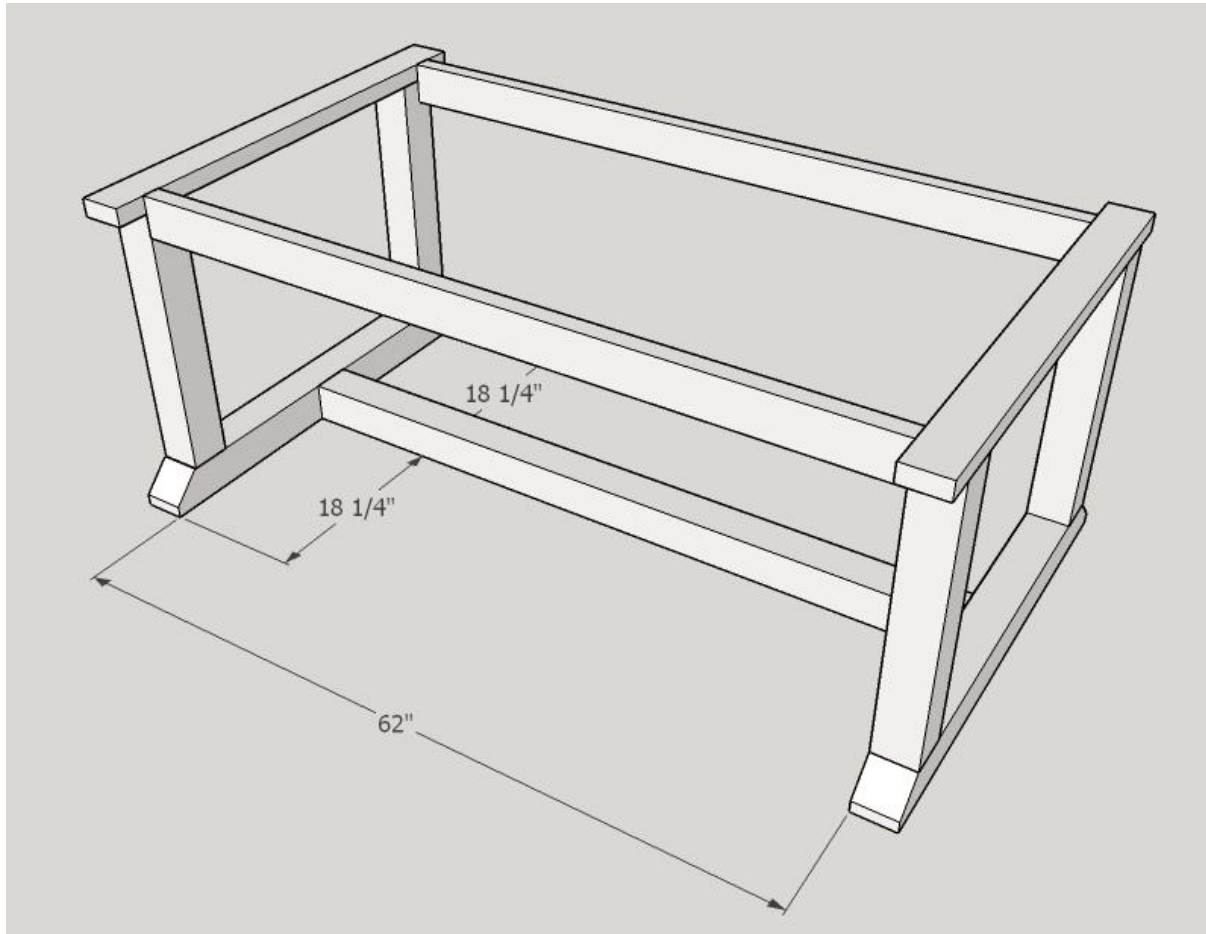


I also add some scrap blocks on the inside corners. I put pocket holes in one end of the scrap piece and screw that to the long trim piece so it is also tight with the short trim piece. I then screw through that into the base and then through the scrap piece back into the short trim piece. I find this helps keep the joint tight.

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Step 7 – Add the leg stretchers

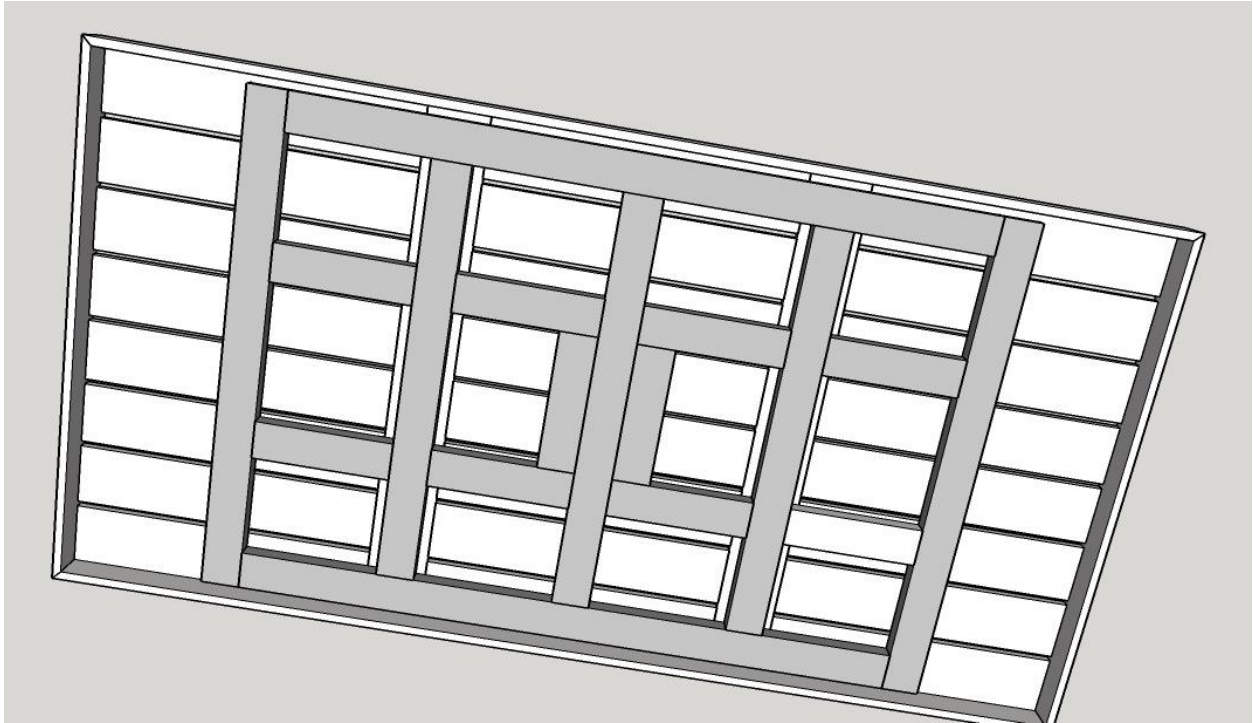
Add the 4 by 4 and 2 by 4 leg stretchers as shown.



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Step 8 – Add the top to the top support

Fit the Top to the top support using 2 inch exterior use screws from the underside. Screw through the support into the top.



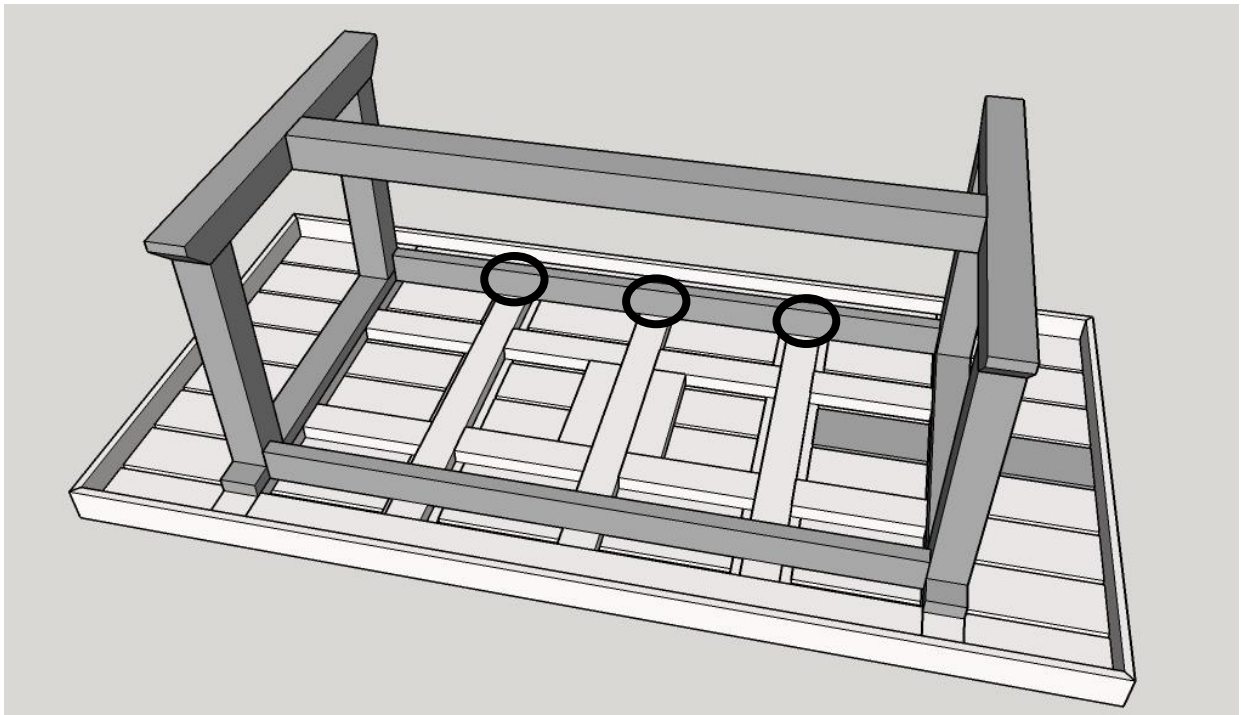
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Step 9 – Fix Base to Top

Lay the base on the top and on the 2 by 4 leg stretchers mark where you will drill pocket hole screws as shown below. Do this on each 2 by 4 piece.

On the end pieces of 2 by 4 drill pilot holes so you can use 2.5 inch exterior use screws to screw through the leg base into the top support.

Drill the pocket hole screws and then fix the base to the top support.

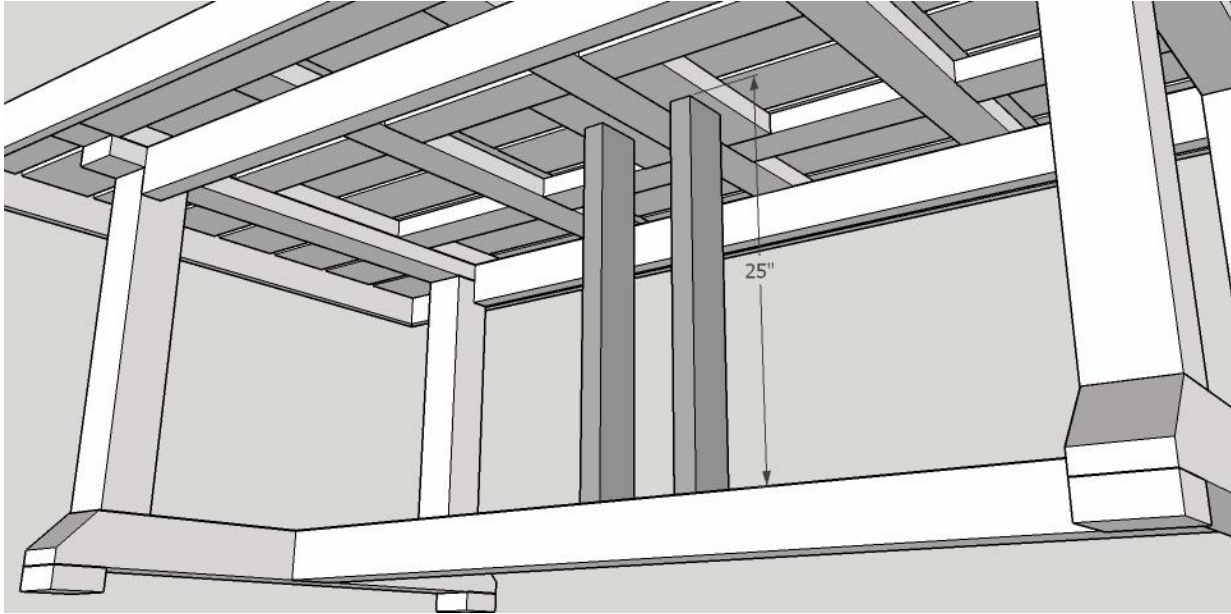


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Step 10 – Add the vertical Supports

Even though the top has a support frame I also added some vertical supports.

These are the 2 by 4 pieces measuring 25 inches.



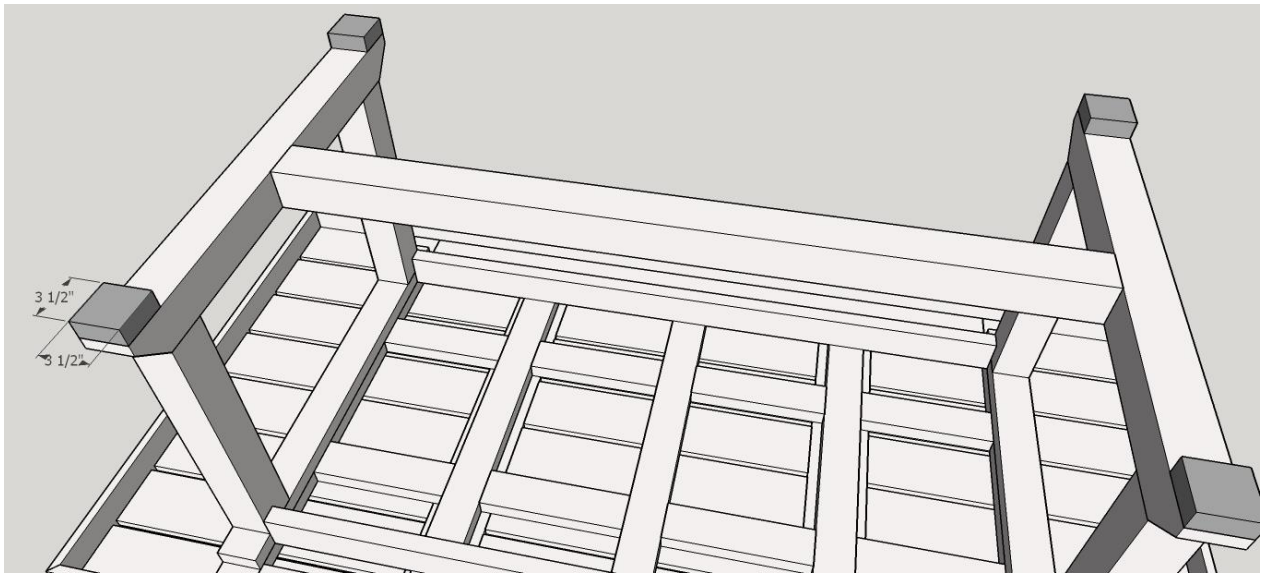
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Step 11 – Fit Feet Supports

I added some feet supports so that if they get wet and the wood gets damaged they can be easily replaced.

Cut some 3 ½ by 3 ½ pieces from some of the leftover 2 by4 and fix to the bottom of the legs.

I used four 2.5 inch screws on each piece but did not glue them so they can be removed and changed if needed.



Step 12– Finish

Finish in your choice of stain or paint.