

## [Quick Tip]

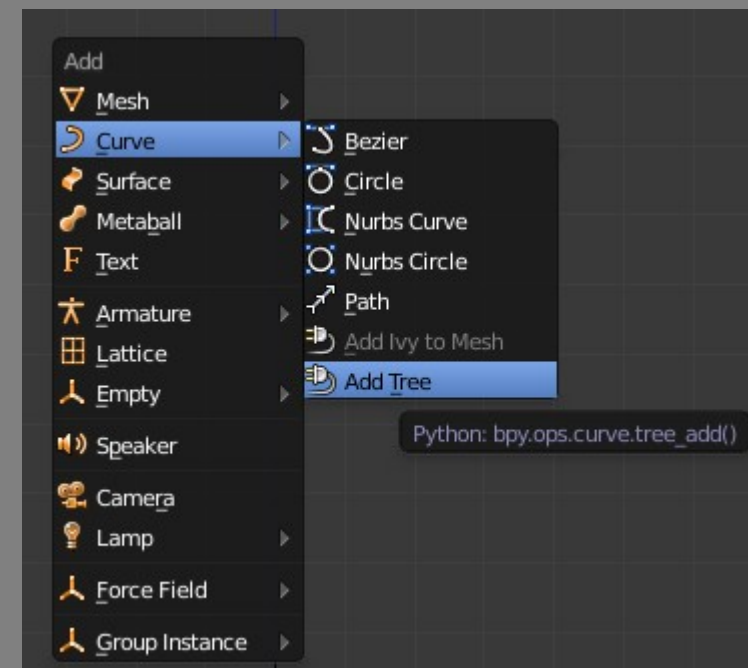
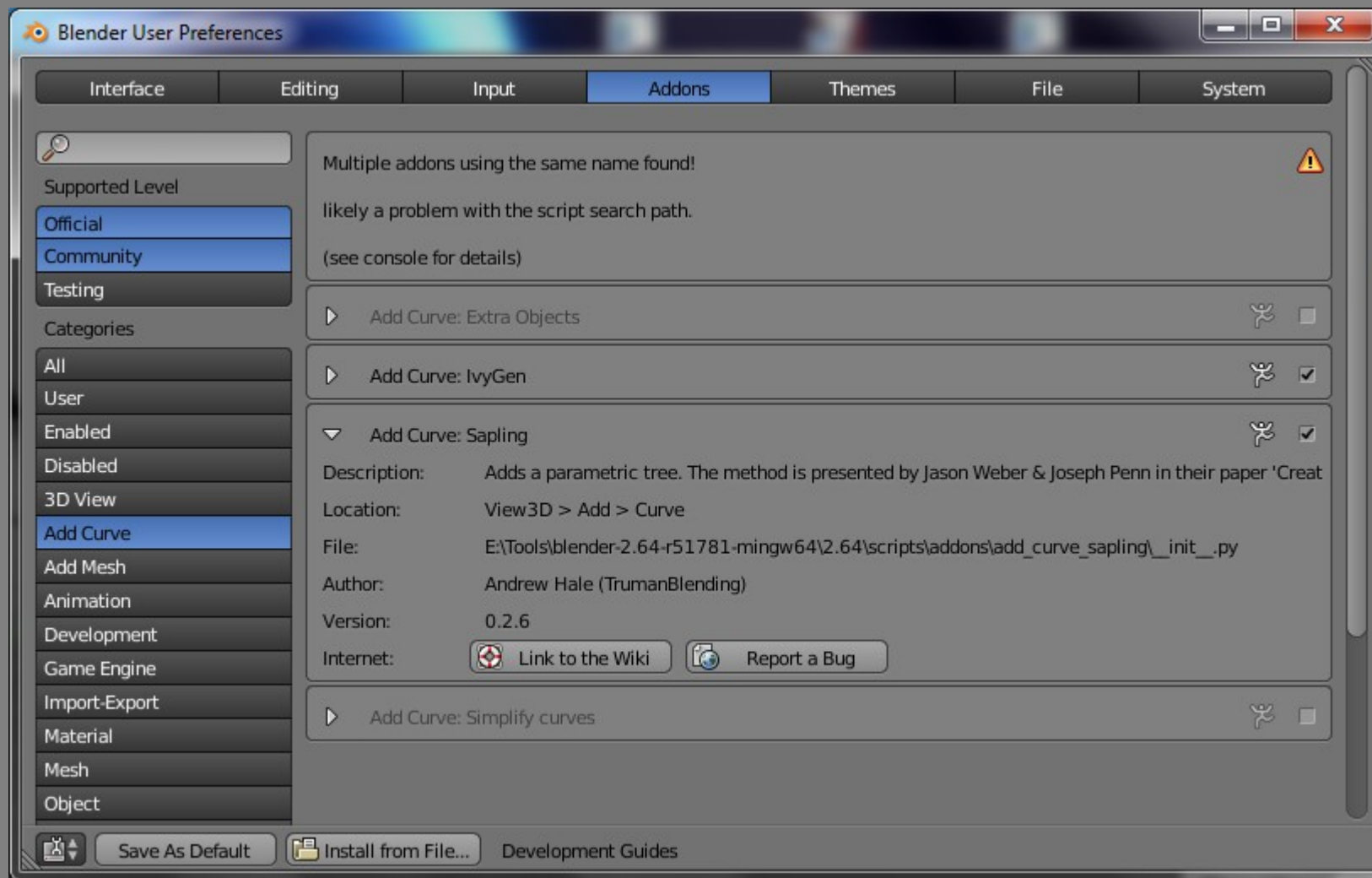
### Combining the sapling tree generator add on with the tree from curves script

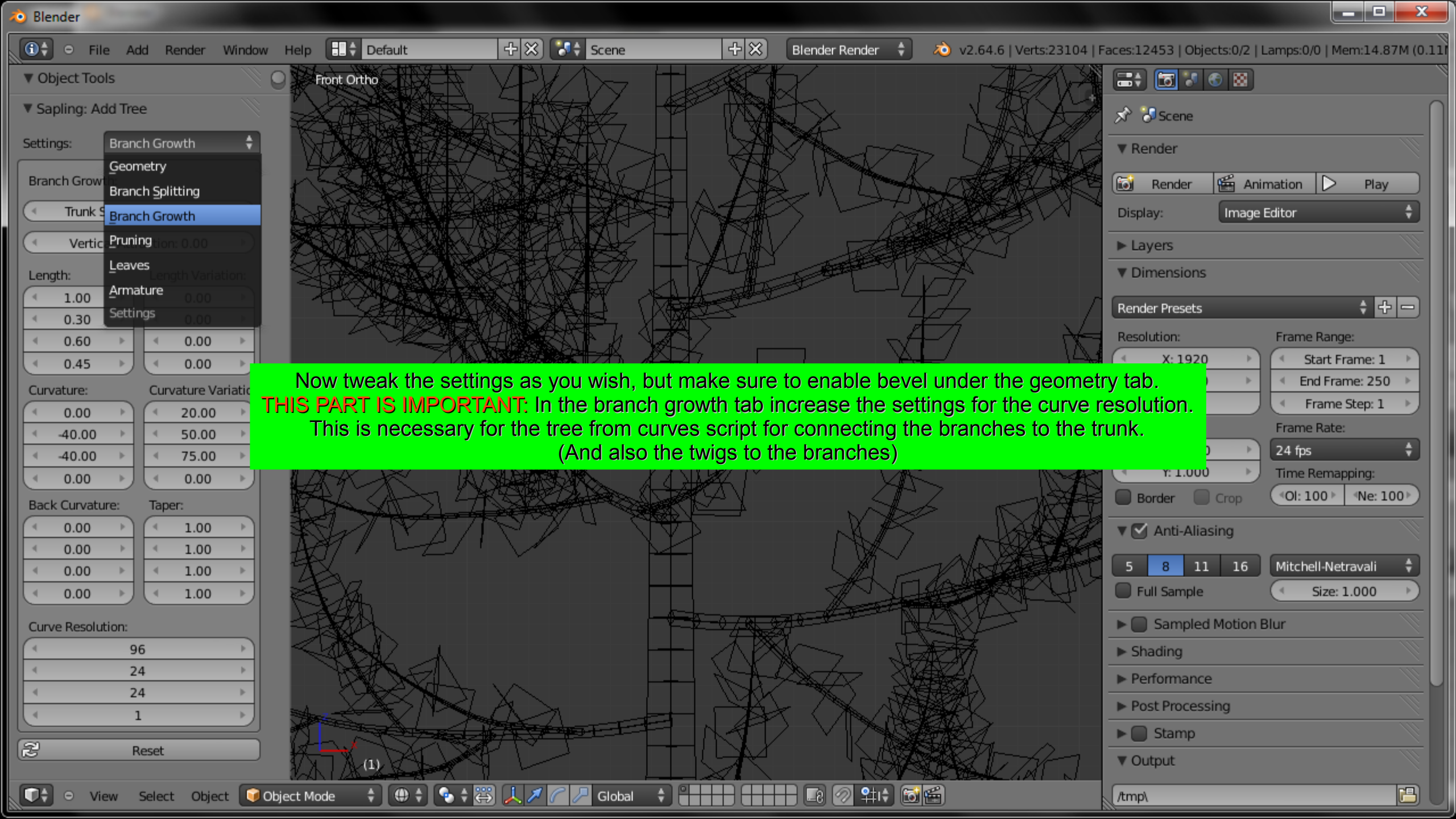
Hi, my name is Johannes Haller and in this quick tip i will show you how to combine the „sapling“ tree generator add on in blender 2.64 with the „tree from curves“ script in blender 2.49b for easy to texture trees.

Wath you need: blender 2.49b (<http://download.blender.org/release/Blender2.49b/>)  
and blender 2.64 (i recommend the newest build from <http://builder.blender.org/download/>)

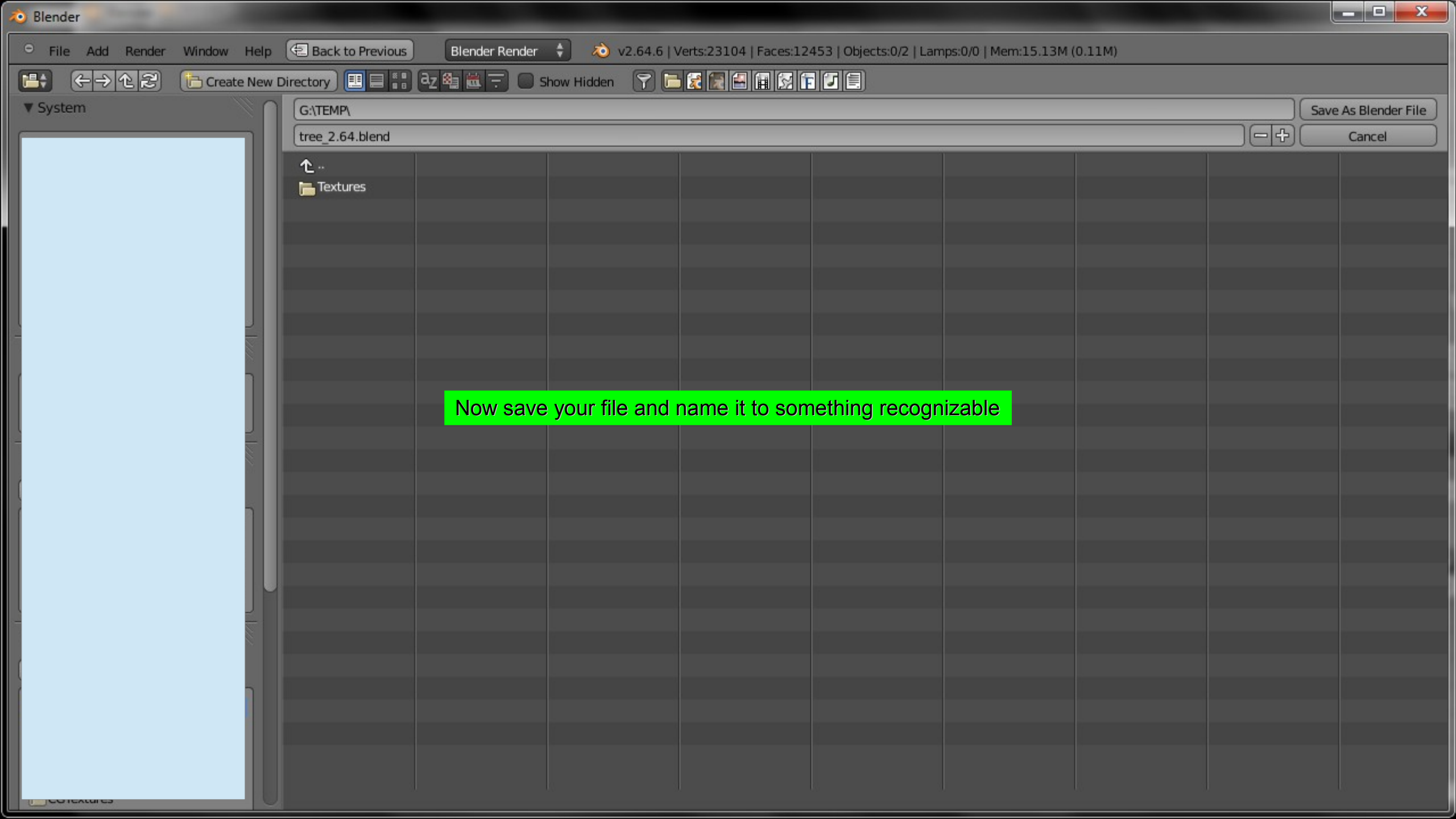
Difficulty: Intermediate (since this is nit a in-depth tutorial i assume you have worked with these two add on's before)  
If not look for tutorials about sapling and tree from curves)

First make sure you enabled the sapling add on under user preferences (ctrl+alt+u)  
Then in 3D view schift+a → curve → add tree.

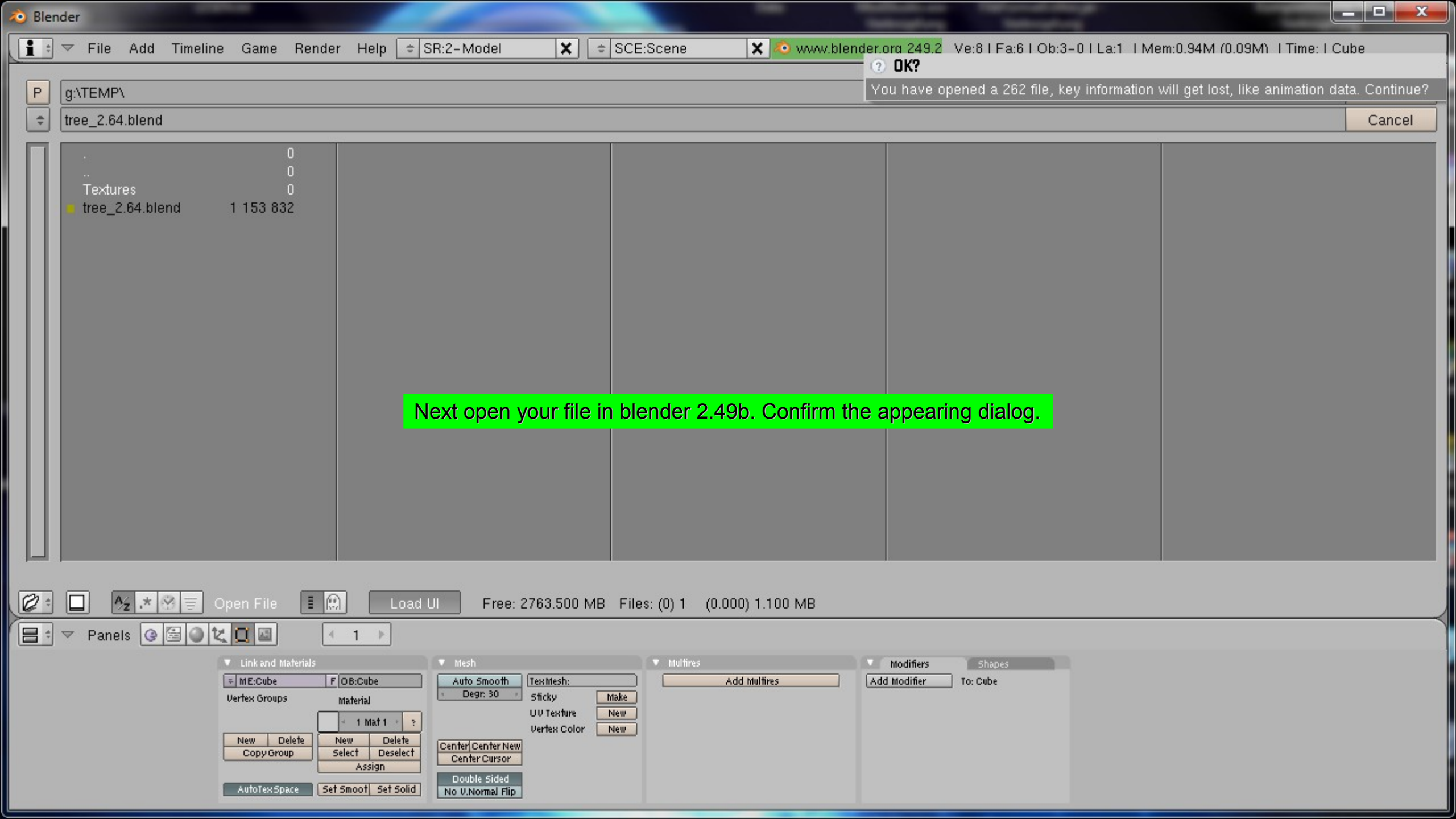




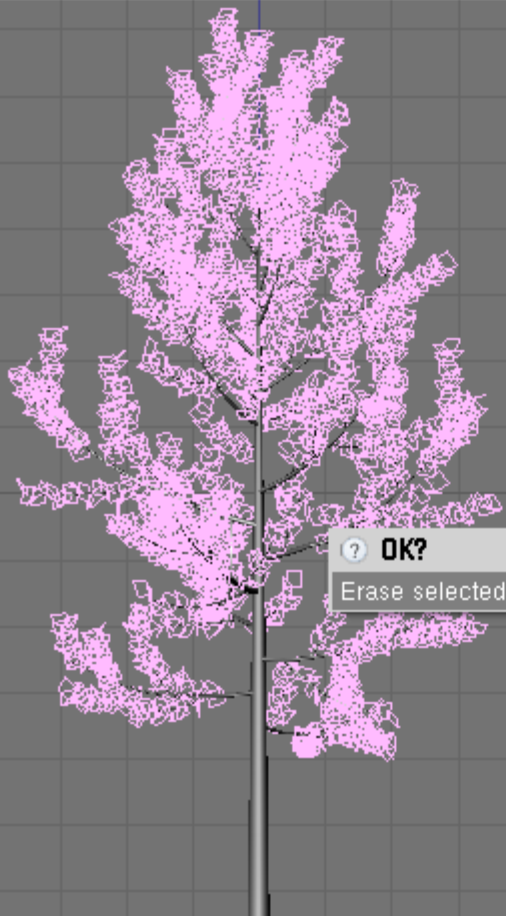
Now tweak the settings as you wish, but make sure to enable bevel under the geometry tab.  
**THIS PART IS IMPORTANT:** In the branch growth tab increase the settings for the curve resolution.  
This is necessary for the tree from curves script for connecting the branches to the trunk.  
(And also the twigs to the branches)



Now save your file and name it to something recognizable



Next open your file in blender 2.49b. Confirm the appearing dialog.



OK?  
Erase selected Object(s)

Blender 2.49b doesn't recognize newer blenders UV data.  
For this reason you can delete the leaves.  
You have to import it later from your first blendfile.  
**REMEMBER THIS WHEN YOU SAVE YOUR FILE. USE A NEW FILENAME!**

1

Link and Materials

ME:leaves.001 F OB:leaves

Vertex Groups

0 Mat 0

New Delete New Delete  
CopyGroup Select Deselect  
Assign

AutoTexSpace Set Smooth Set Solid

Mesh

Auto Smooth Degr: 30

Center Center New  
Center Cursor

Double Sided  
No U.Normal Flip

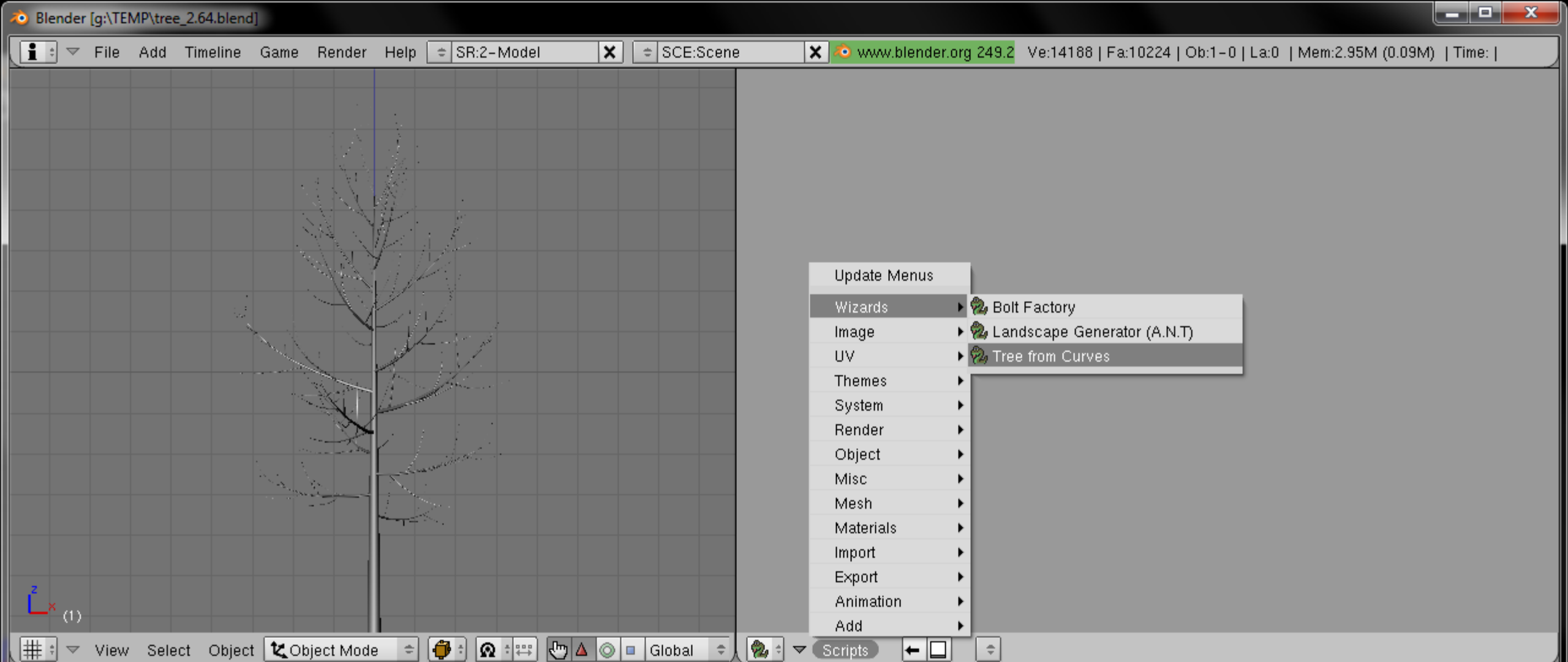
Multires

Add Multires

Modifiers

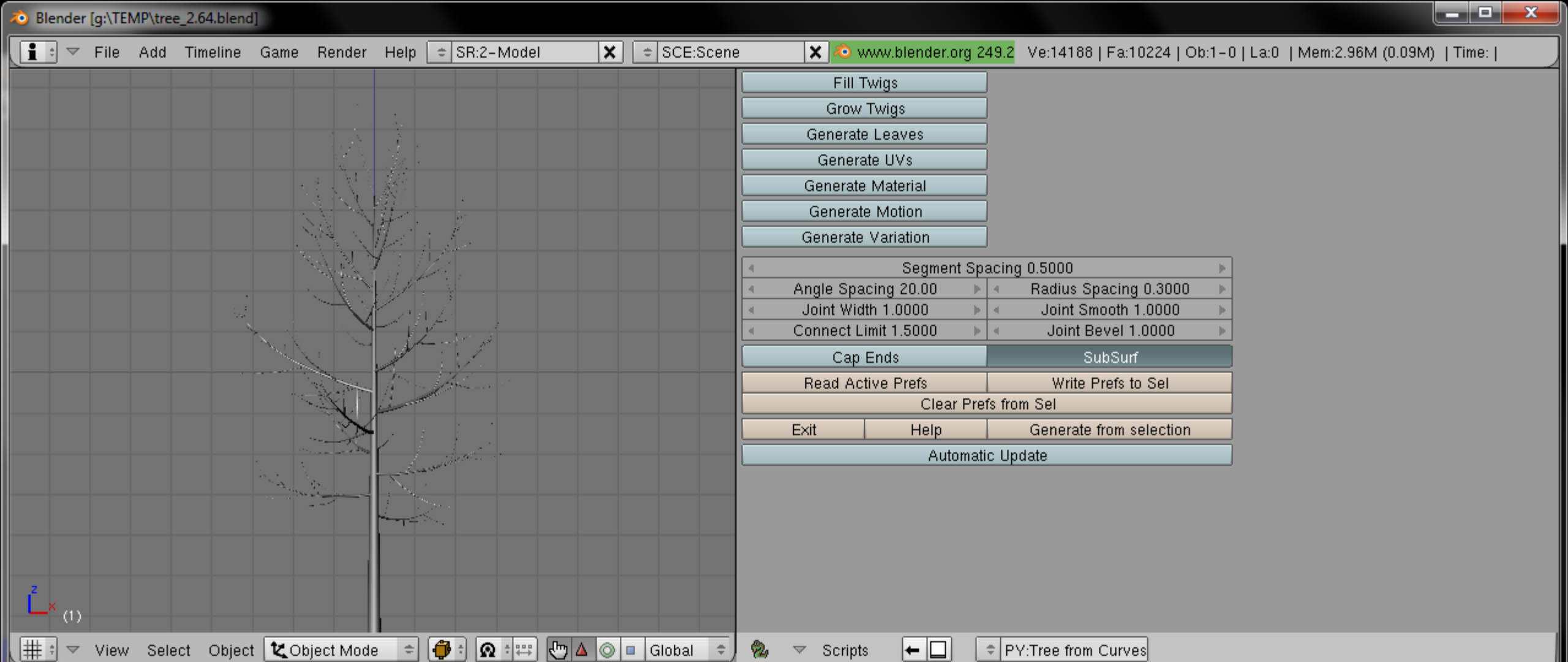
Add Modifier To: leaves

Shapes



Now open the tree from curves script

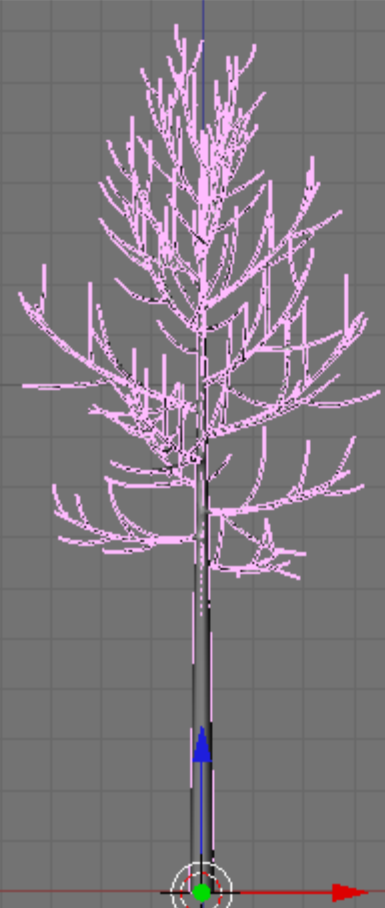




You can leave the settings as they are, you must only activate (in this order)

1. automatic updates
2. generate Uvs
3. generate material





Fill Twigs

Grow Twigs

Generate Leaves

Generate UVs

U-Scale	V-Aspect	V-Normalize
Scale U 4.0000	Scale V 1.0000	

IM: Use Active

Generate Material ReUse Existing

Texture Blend Joints

Generate Motion

Generate Variation

Segment Spacing 0.5000

Angle Spacing 20.00	Radius Spacing 0.3000
Joint Width 1.0000	Joint Smooth 1.0000
Connect Limit 1.5000	Joint Bevel 1.0000

Cap Ends SubSurf

Read Active Prefs Write Prefs to Sel

Clear Prefs from Sel

Exit Help Generate from selection

Automatic Update

(1) tree

View Select Object Object Mode

Scripts PY:Tree from Curves

Link and Materials

CU:tree.002 F OB:tree

0 Mat 0

New Delete

Select Deselect

Assign

AutoTexSpace Set Smooth Set Solid

Curve and Surface

UV Orco

DefResolU: 4

Ren.ResolU 0

PrintLen: 0.0000

Center Center New

Back Front 3D

Center Cursor

Width: 1.000

Extrude: 0.00

Path Len: 100

Bevel Depth: 1.000

Curve Path Curve Foll

Bev Resol: 0

Curve Stretch

BevOb:

PathDist Offs

TaperOb:

Modifiers

Add Modifier To: tree

...and now you have a joined tree mesh

P g:\TEMP\ Save File  
tree\_2.49b Cancel

..	0
..	0
Textures	0
tree_2.64.blend	1 153 832

**IMPORTANT: SAVE AS A NEW FILE !!!**  
If not you will loose your leaf mesh.

Fill Twigs  
Grow Twigs  
Generate Leaves

Generate UVs

U- Scale	V- Aspect	V-Normaize
Scale U 4.0000	Scale V 1.0000	

IM: Use Active

Generate Material ReUse Existing  
Texture Blend Joints

Generate Motion  
Generate Variation

Segment Spacing 0.5000

Angle Spacing 20.00	Radius Spacing 0.3000
Joint Width 1.0000	Joint Smooth 1.0000
Connect Limit 1.5000	Joint Bevel 1.0000

Cap Ends SubSurf

Read Active Prefs Write Prefs to Sel  
Clear Prefs from Sel

Exit Help Generate from selection  
Automatic Update

Save File Load UI Free: 2750.297 MB Files: (0) Scripts PY:Tree from Curves

Link and Materials

CU:tree.002	F	OB:tree
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0 Mat 0 ?

New Delete  
Select Deselect  
Assign

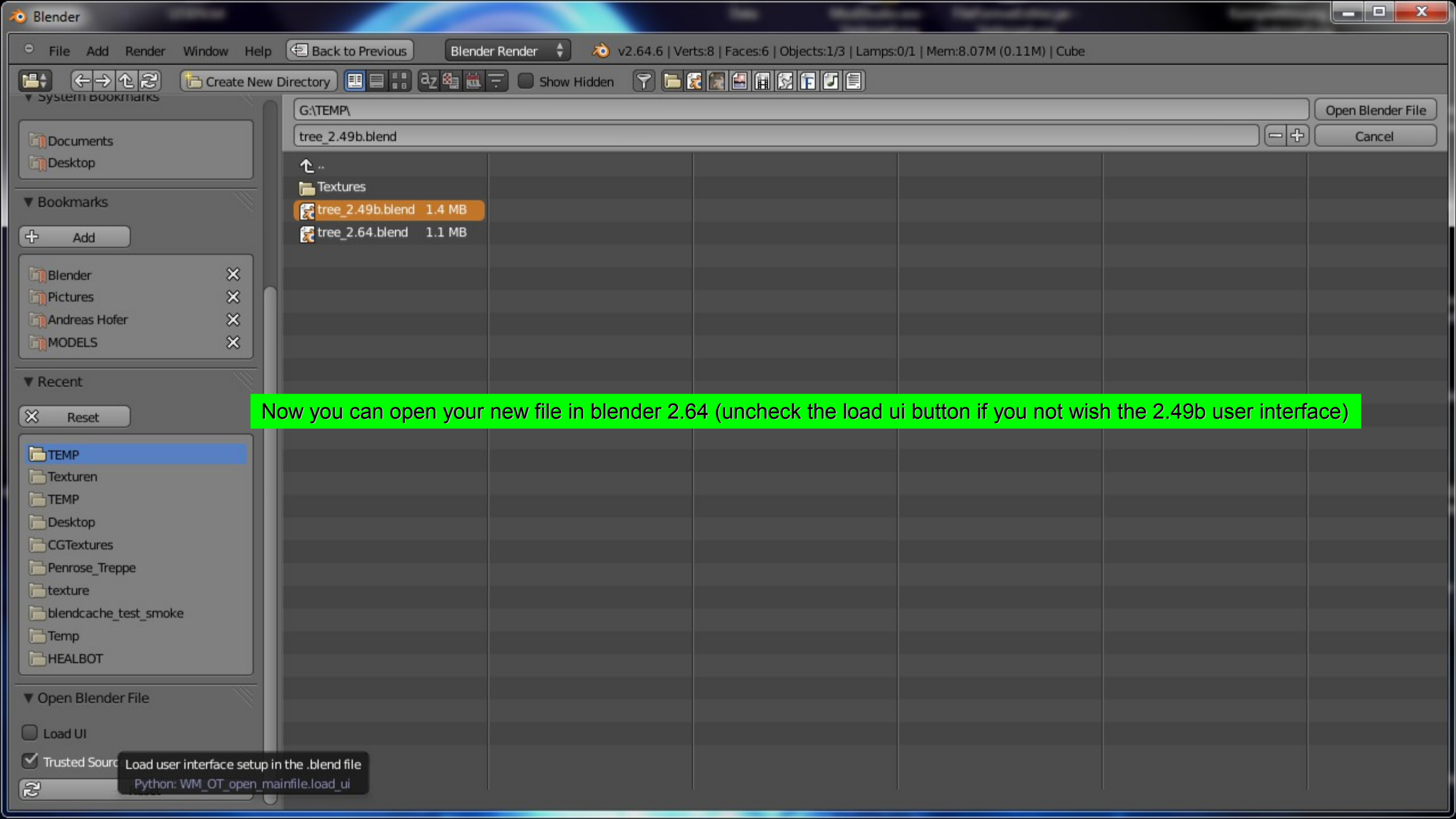
AutoTexSpace Set Smoot Set Solid

Curve and Surface

UV Orco	DefResolU: 4
PrintLen: 0.0000	Ren.ResolU 0
Center Center New	Back Front 3D
Center Cursor	Width: 1.000
Path Len: 100	Extrude: 0.00
Curve Path Curve Foll	Bevel Depth: 1.000
Curve Stretch	Bev Resol: 0
PathDist Offs	BevOb:
	TaperOb:

Modifiers

Add Modifier To: tree



Now you can open your new file in blender 2.64 (uncheck the load ui button if you not wish the 2.49b user interface)

▼ Object Tools

Transform:

Translate

Rotate

Scale

Origin

Object:

Duplicate Objects

Delete

Join

Shading:

Smooth Flat

Keyframes:

Insert Remove

Motion Paths:

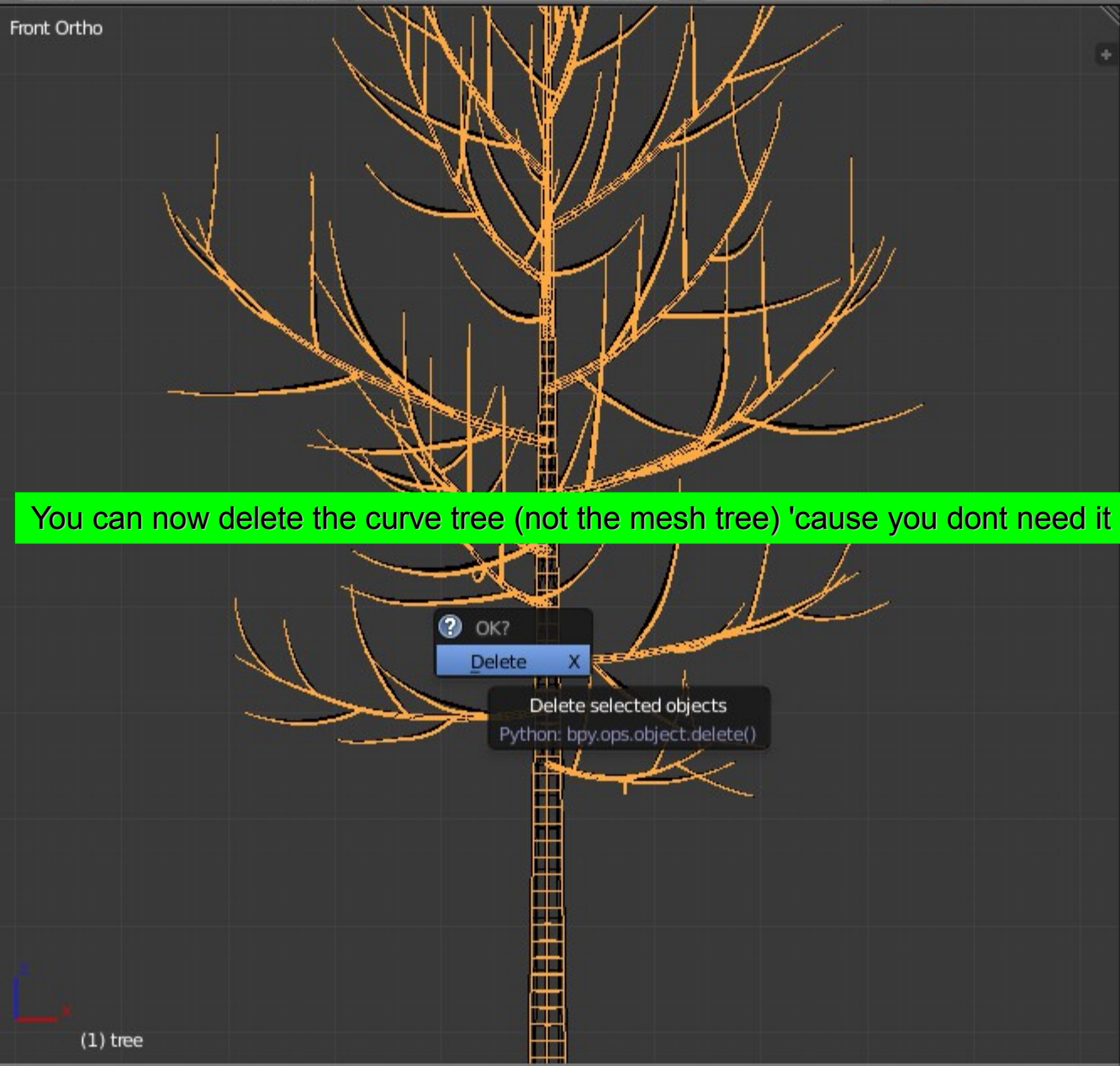
Calculate Paths

Clear Paths

Repeat:

Repeat Last

▼ Operator



Scene

▼ Render

Render Animation Play

Display: Full Screen

► Layers

▼ Dimensions

Render Presets

Resolution: X: 1920 Y: 1080

Frame Range: Start Frame: 1 End Frame: 250 Frame Step: 1

Aspect Ratio: X: 1.000 Y: 1.000

Frame Rate: 24 fps

Time Remapping: Old: 100 Ne: 100

▼  Anti-Aliasing

5 8 11 16 Mitchell-Netravali

Full Sample Size: 1.000

Sampled Motion Blur

► Shading

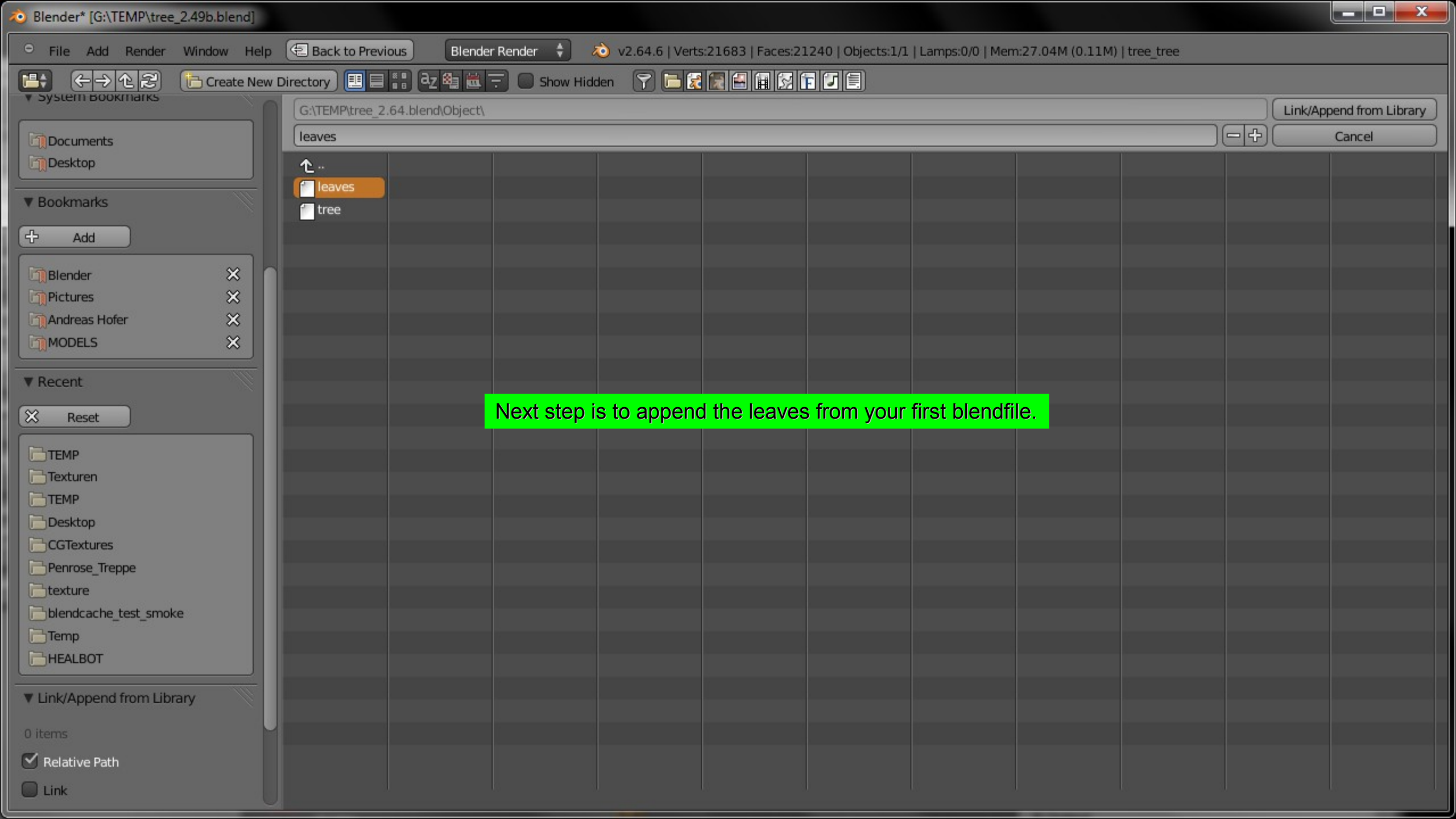
► Performance

► Post Processing

Stamp

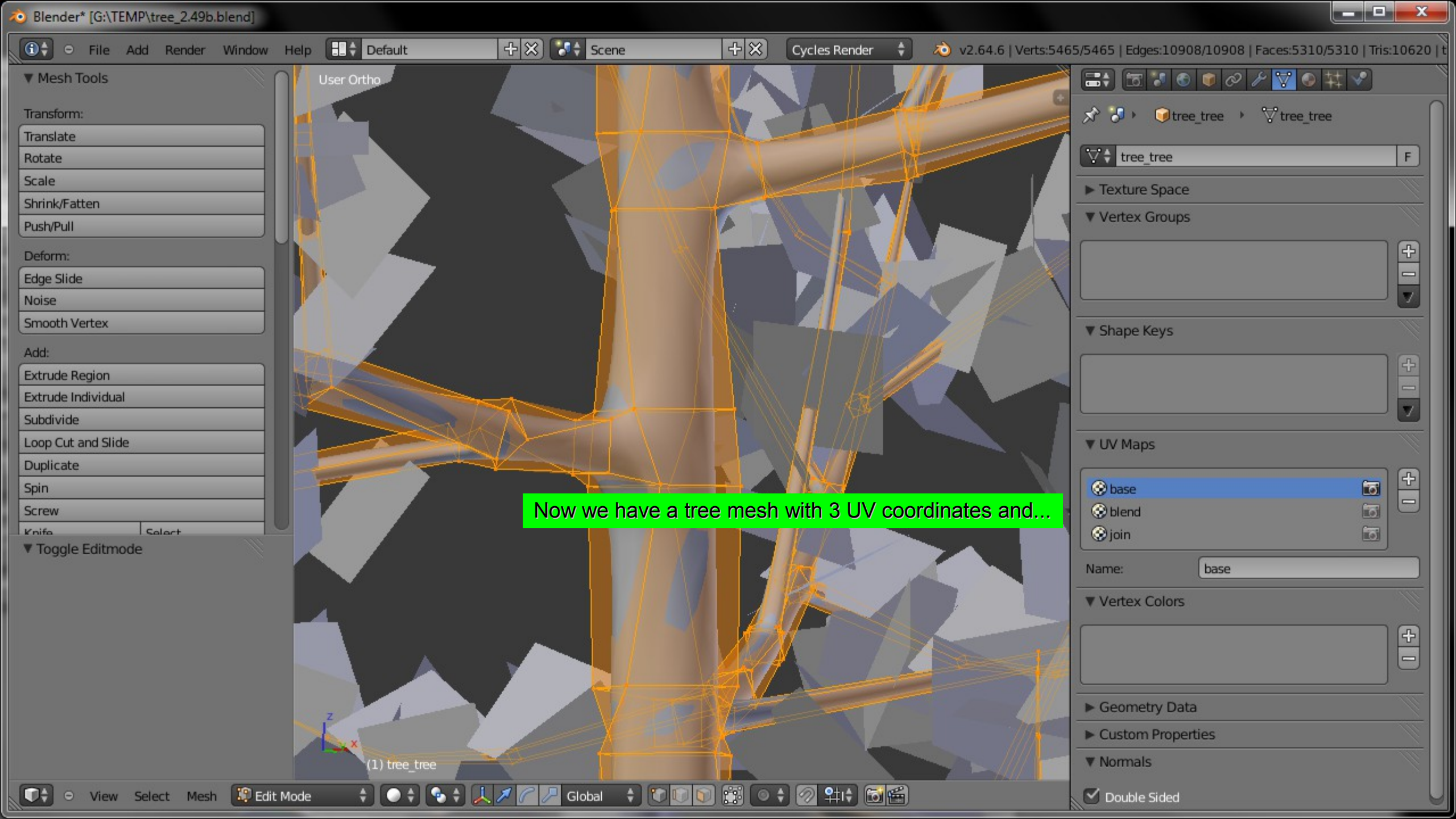
▼ Output

/tmp/



Next step is to append the leaves from your first blendfile.





Now we have a tree mesh with 3 UV coordinates and...

▼ Object Tools

Transform:

Translate

Rotate

Scale

Origin

Object:

Duplicate Objects

Delete

Join

Shading:

Smooth Flat

Keyframes:

Insert Remove

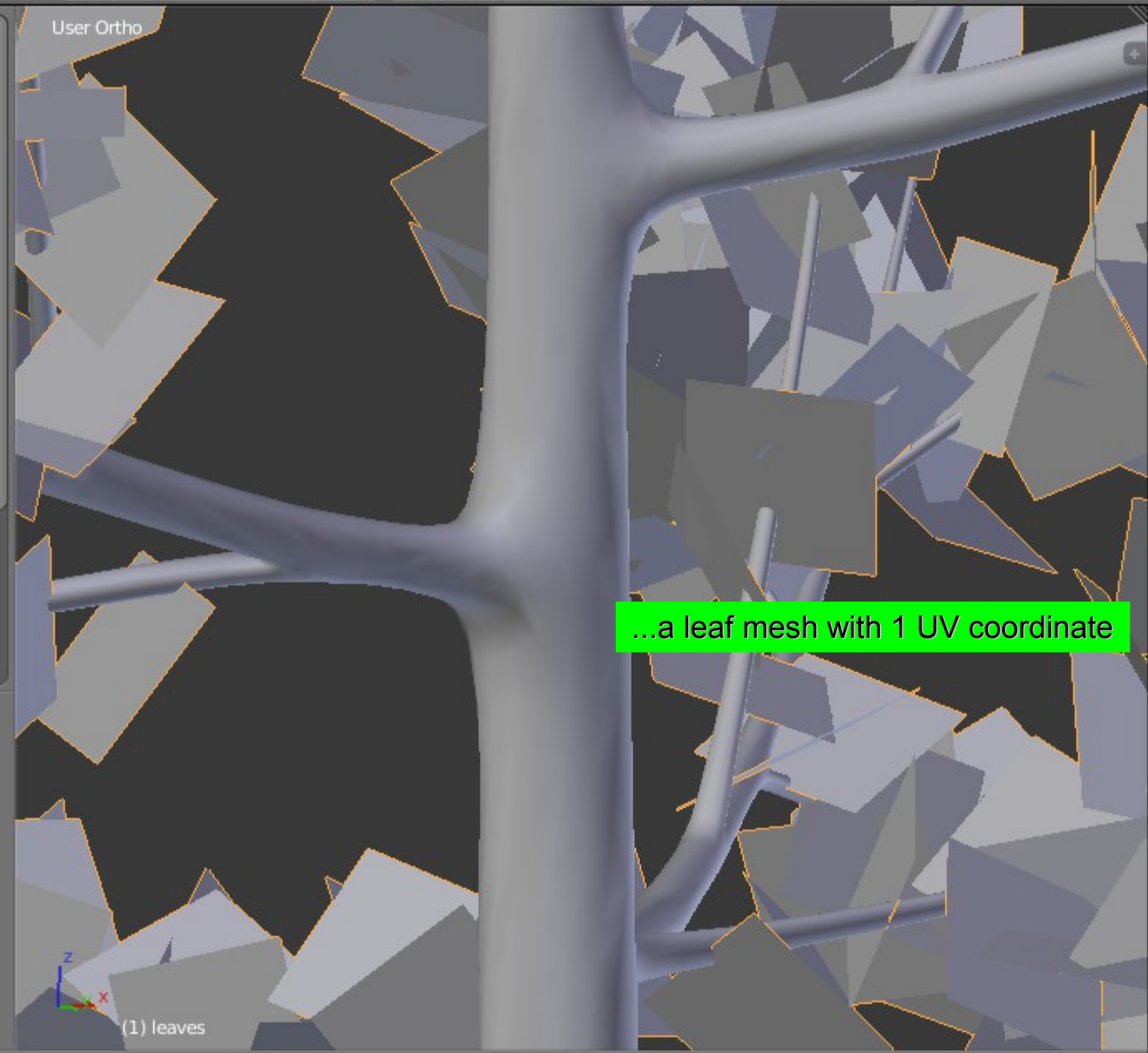
Motion Paths:

Calculate Paths

Clear Paths

Repeat:

Repeat Last



leaves ▸ ▾ leaves.001

leaves.001 F

Texture Space

▼ Vertex Groups

Shape Keys

UV Maps

leafUV

Name: leafUV

▼ Vertex Colors

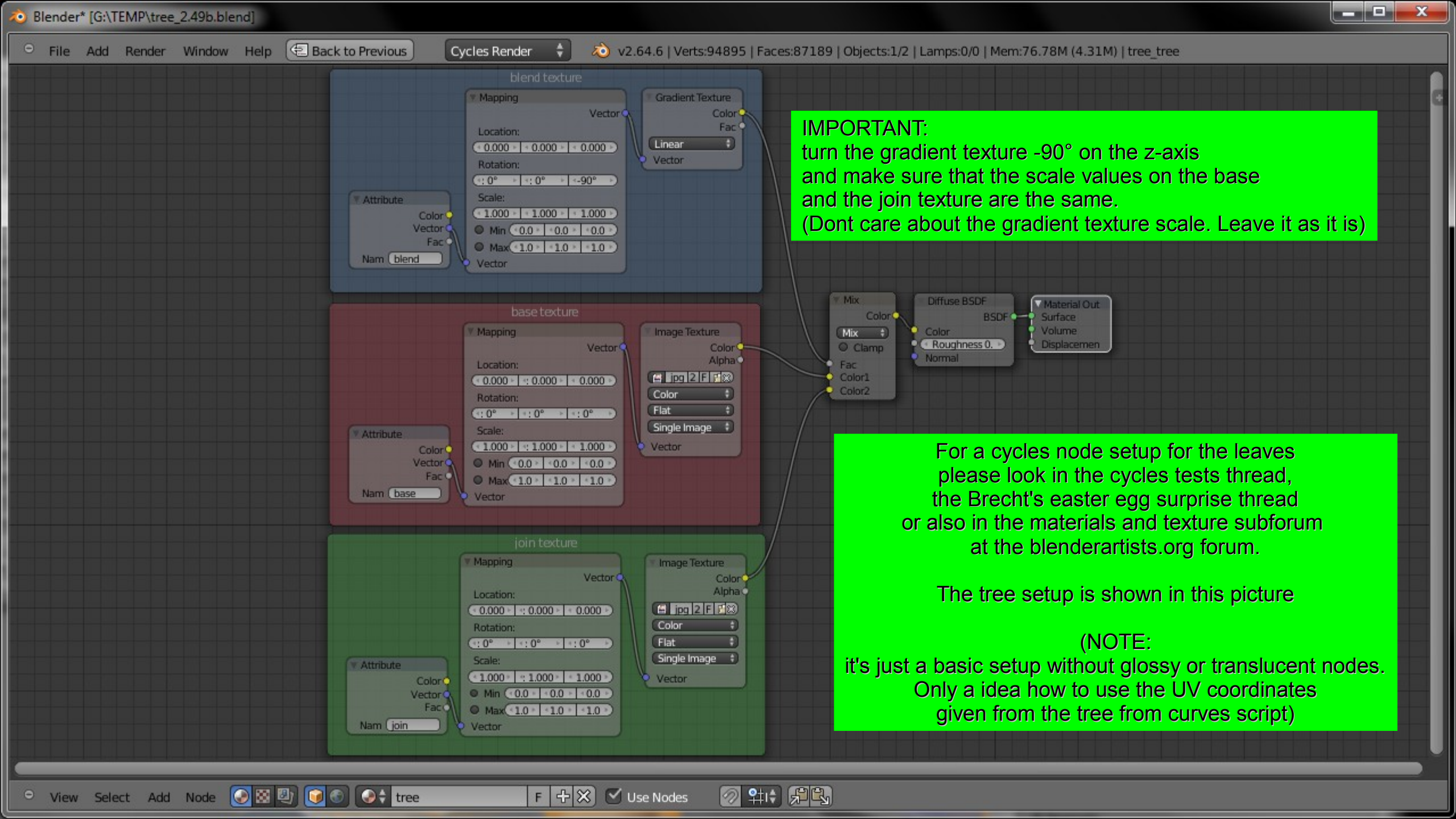
Geometry Data

Custom Properties

▼ Normals

Double Sided



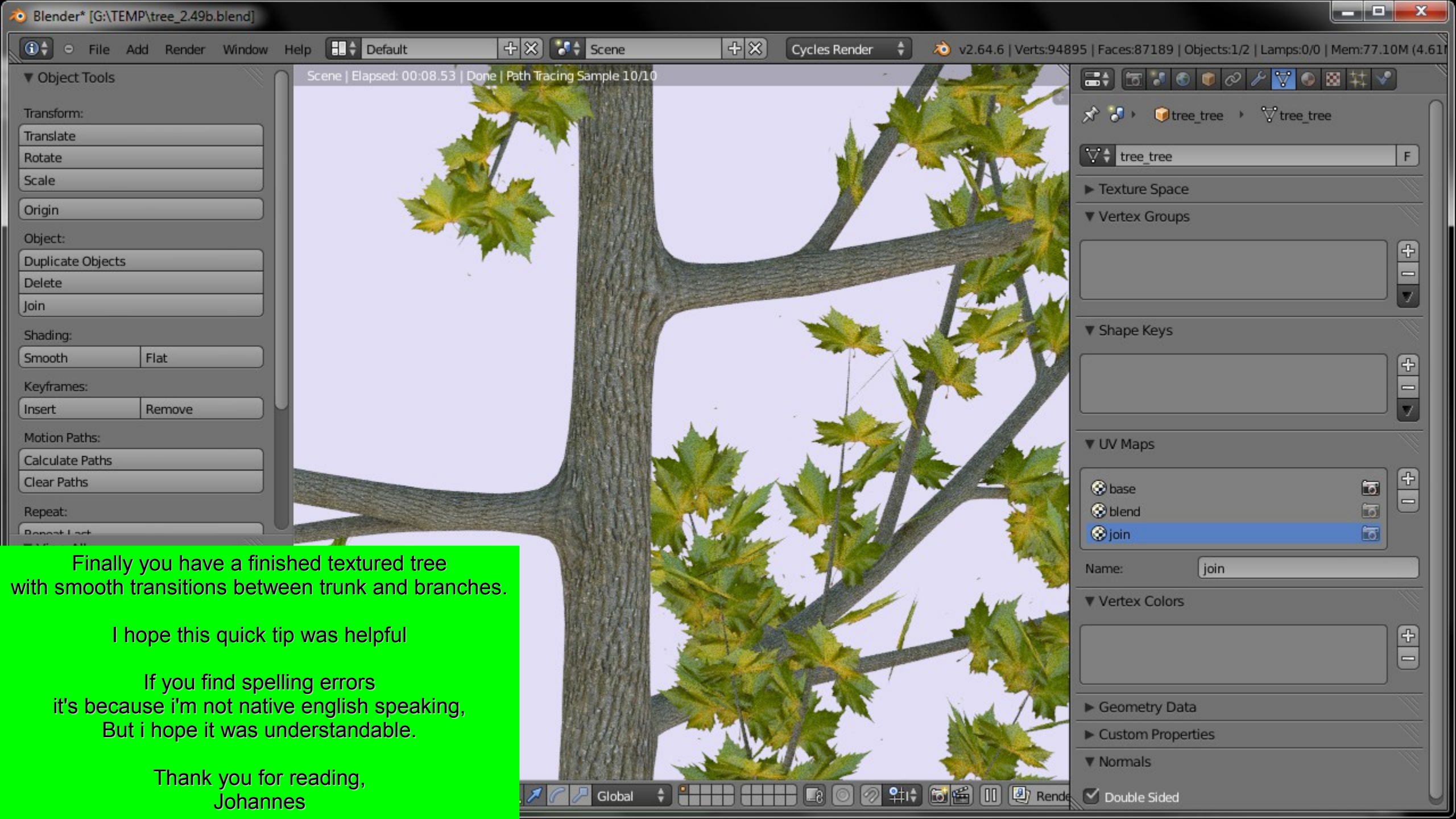


**IMPORTANT:**  
turn the gradient texture  $-90^\circ$  on the z-axis  
and make sure that the scale values on the base  
and the join texture are the same.  
(Dont care about the gradient texture scale. Leave it as it is)

For a cycles node setup for the leaves  
please look in the cycles tests thread,  
the Brecht's easter egg surprise thread  
or also in the materials and texture subforum  
at the blenderartists.org forum.

The tree setup is shown in this picture

(NOTE:  
it's just a basic setup without glossy or translucent nodes.  
Only a idea how to use the UV coordinates  
given from the tree from curves script)



Finally you have a finished textured tree with smooth transitions between trunk and branches.

I hope this quick tip was helpful

If you find spelling errors it's because i'm not native english speaking, But i hope it was understandable.

Thank you for reading,  
Johannes