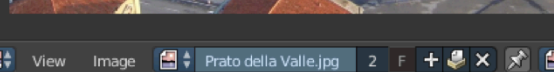
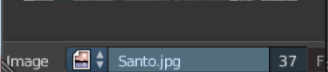
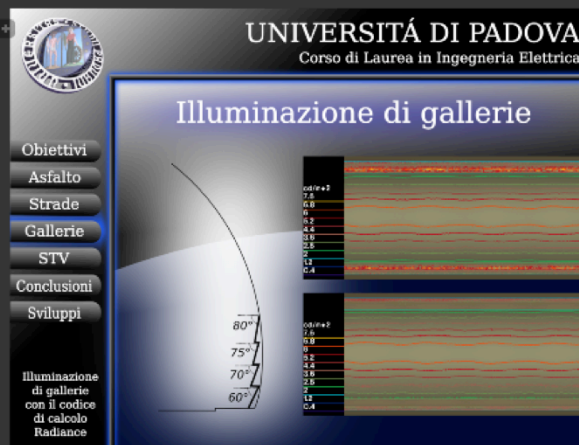
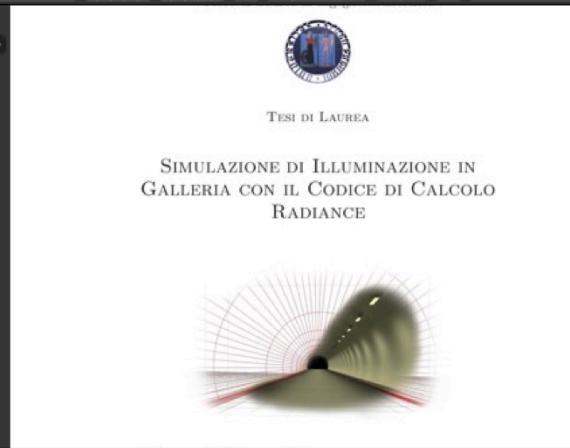


Lucio Boscolo Mezzopan





Time:01:00.29 | Remaining:01:19.92 | Mem:14.73M, Peak:14.73M | Path Tracing Sample 215/500

Lucio Boscolo Mezzopan

Time:01:01.12 | Remaining:01:19.07 | Mem:14.73M, Peak:14.73M | Path Tracing Sample 218/500

3D Graphics Projects

View Select Add Object Object Mode Global



View Image Albergo Sappada 2.j... F +

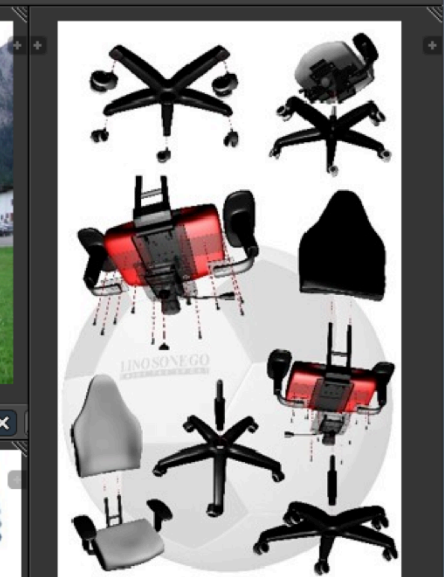


Image Chair Mount Instru... F +



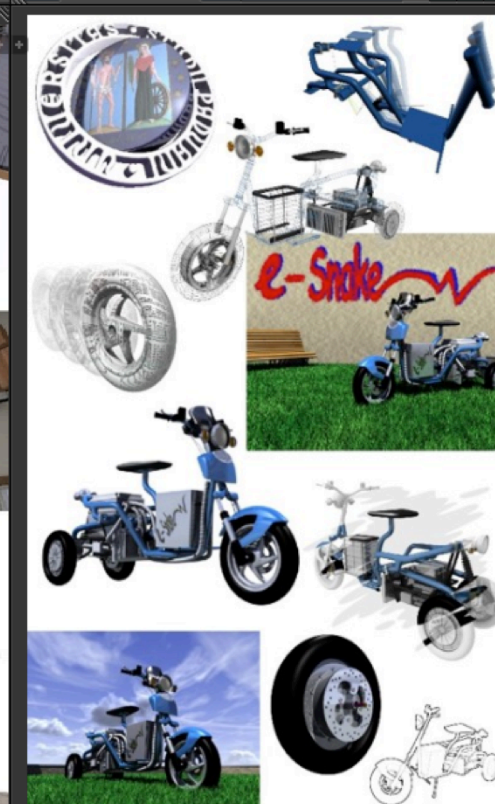
View Image Sonogo Chair.j



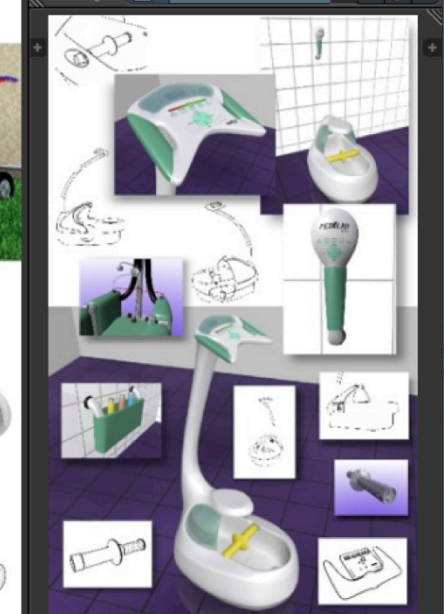
View Image MotoGP.jpg F +



View Image Albergo Sappada 3.j... F +



View Image E Snake.jpg F +

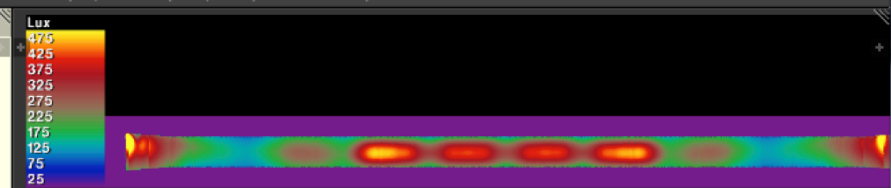


View Image Pedilio.jpg F



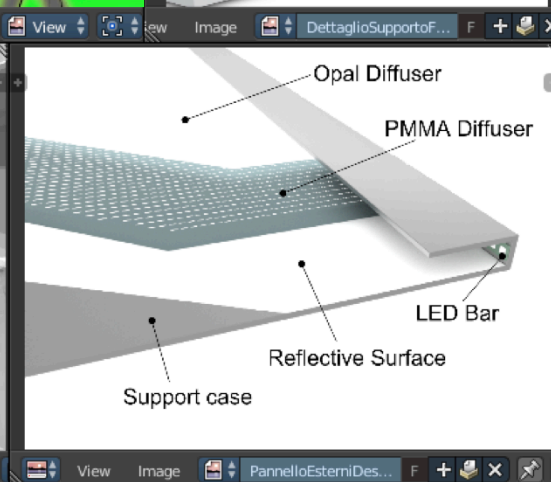
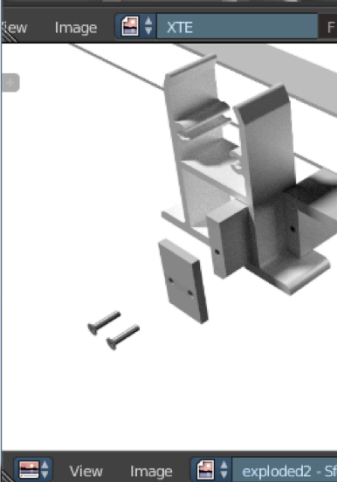
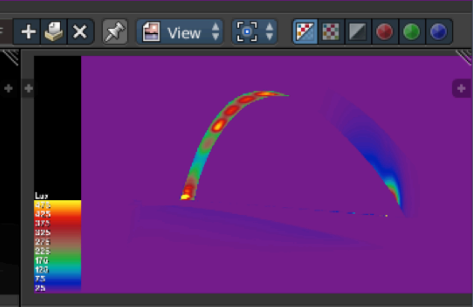
Time:02:09.97 | Mem:15.02M, Peak:15.11M | Done | Path Tracing Sample 500/500

Lucio Boscolo Mezzopan



Time:01:27.88 | Mem:11.47M, Peak:12.41M | Done | Path Tracing Sample 500/500

Works @ Tosoni

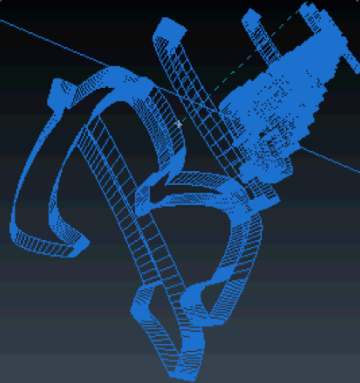


All images courtesy of Far Systems

*Performing the most amazing calculations,
and not being able to show them properly..
is completely worthless.*

Blender can help!

User Persp



(6) Text.011

View Select Add Object

Geometry

Modification: Bevel:

Offset: 0.000 Depth: 0.000

Extrude: 0.015 Resolution: 2

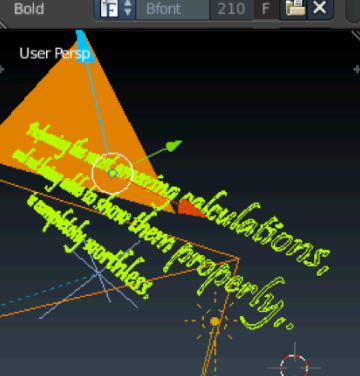
Taper Object: Bevel Object:

Font

Regular Pristina-Re 2 F

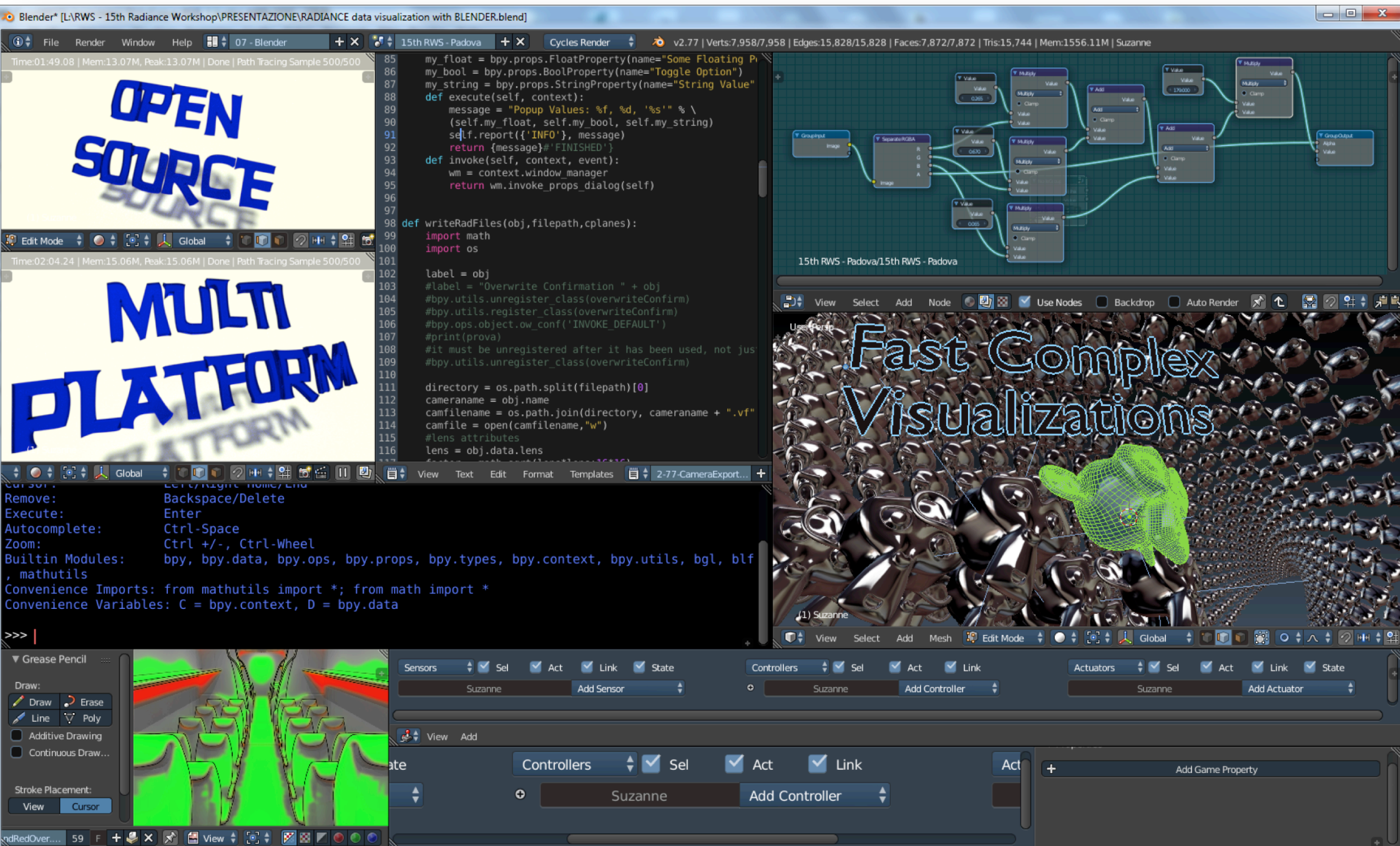
Bold Bfont 210 F

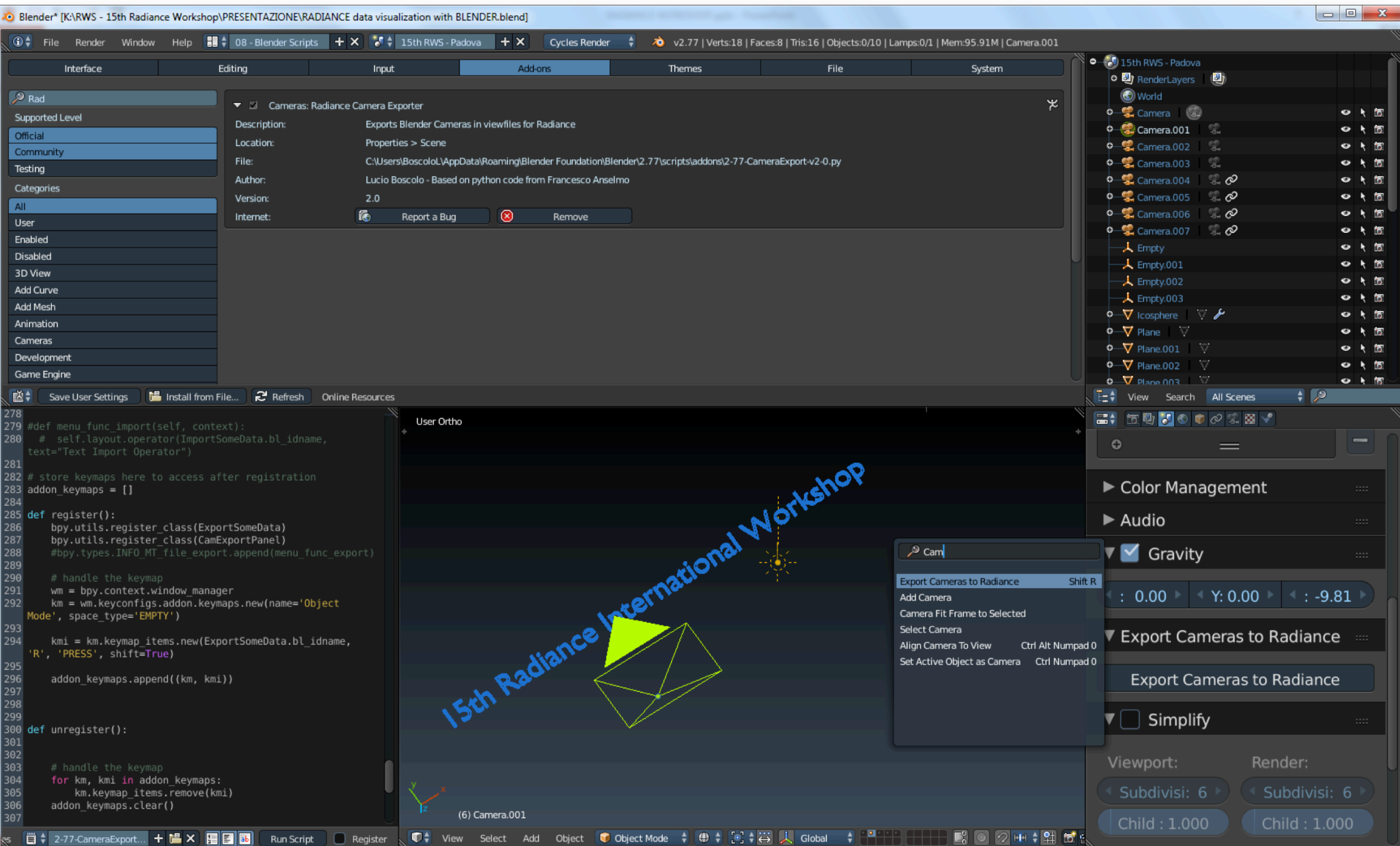
User Persp

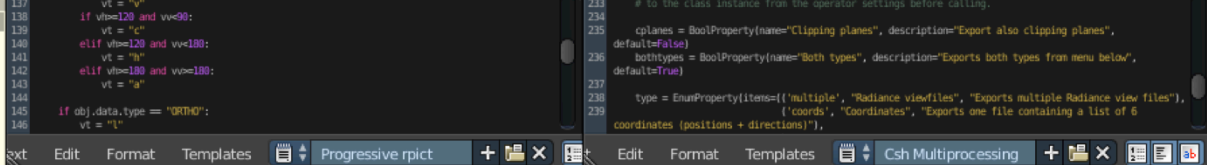
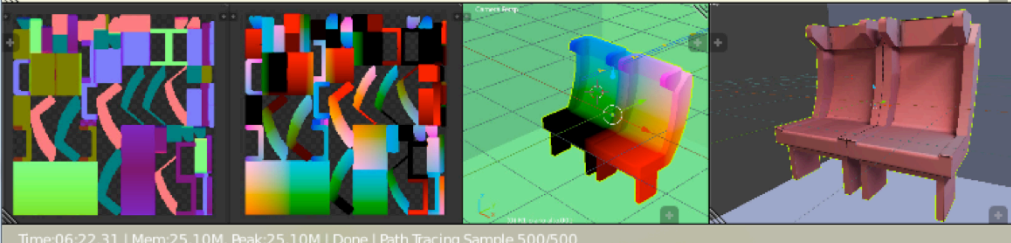
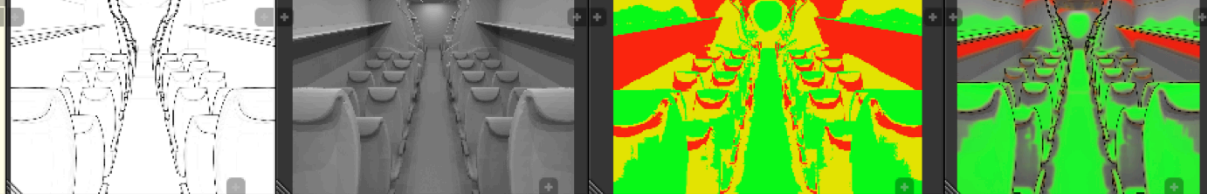
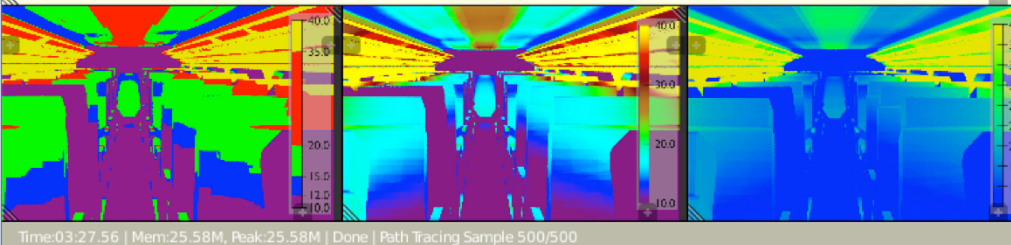
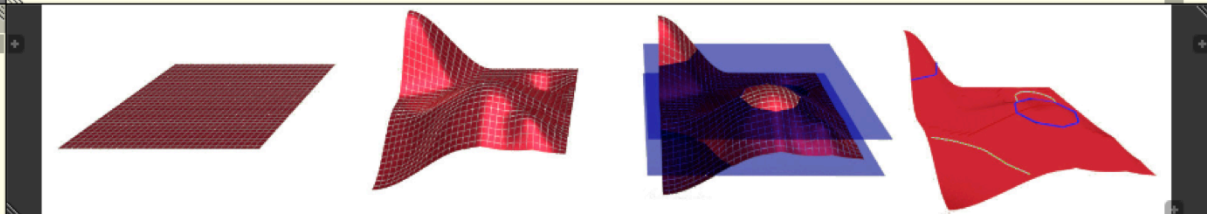
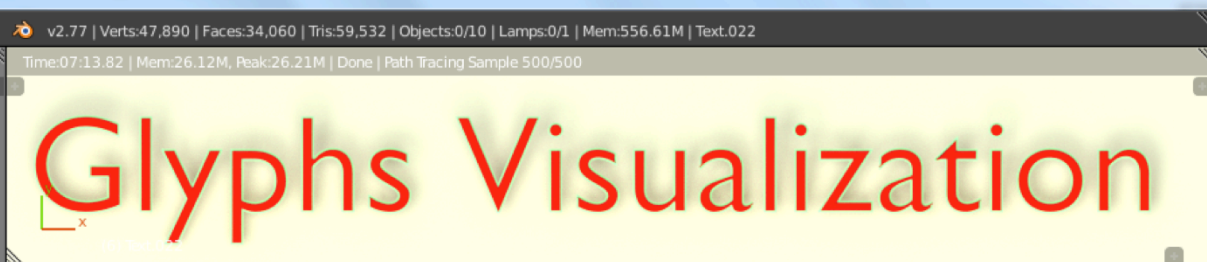
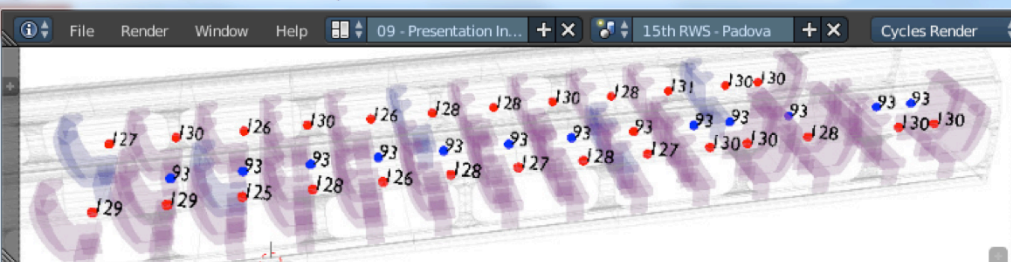


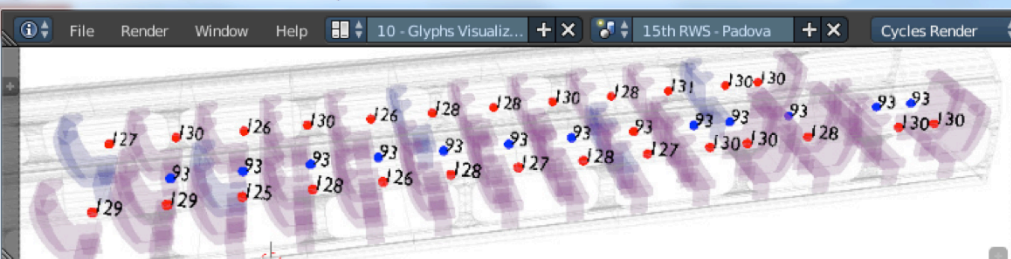
(6) Text.011

Global

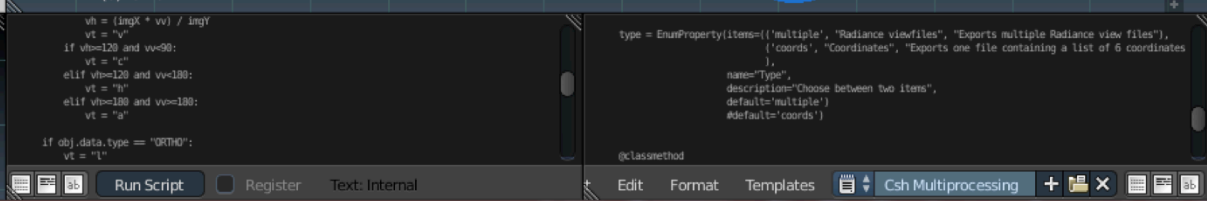
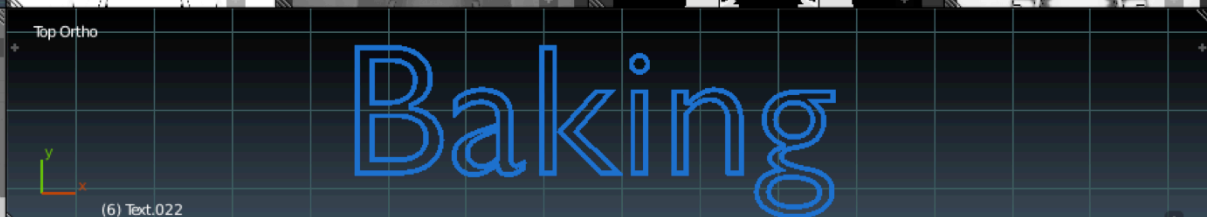
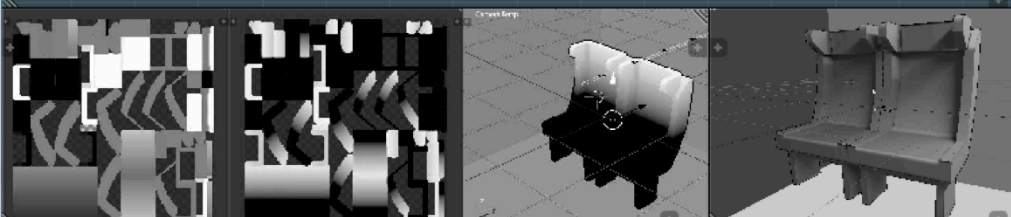
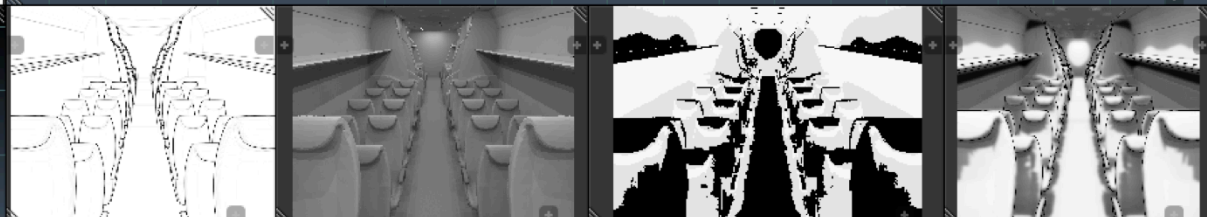
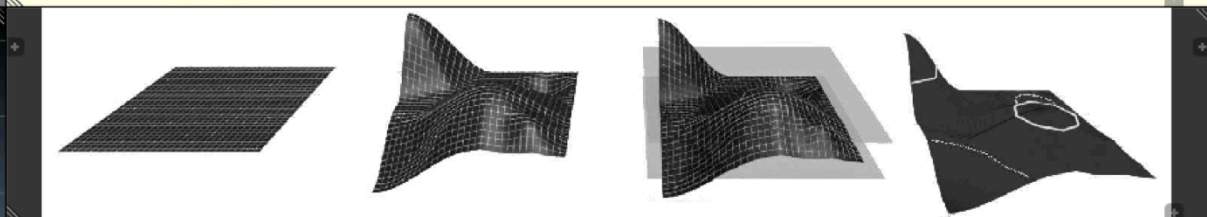
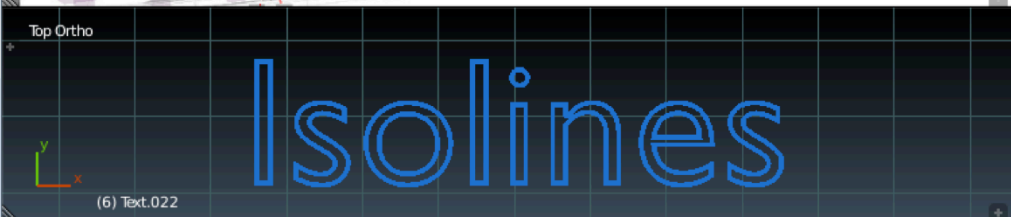








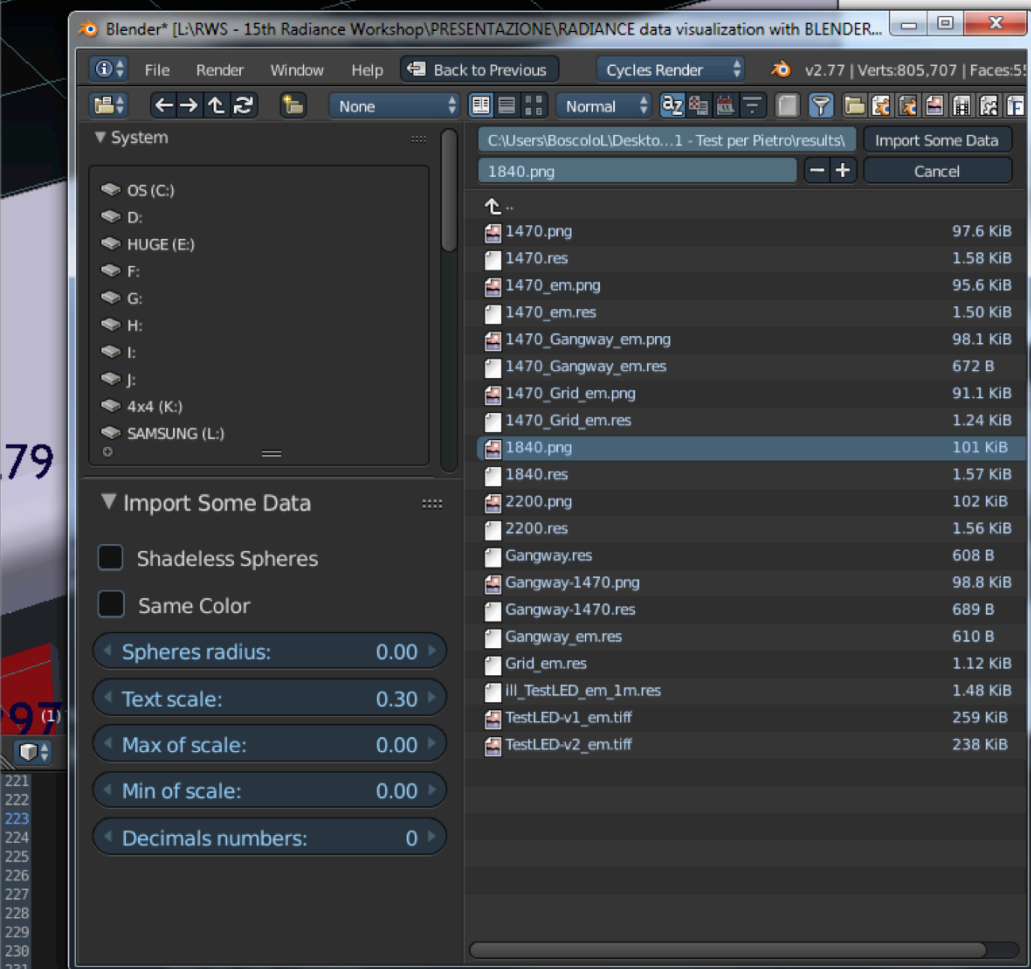
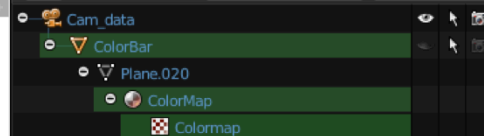
Glyphs Visualization



Camera Persp

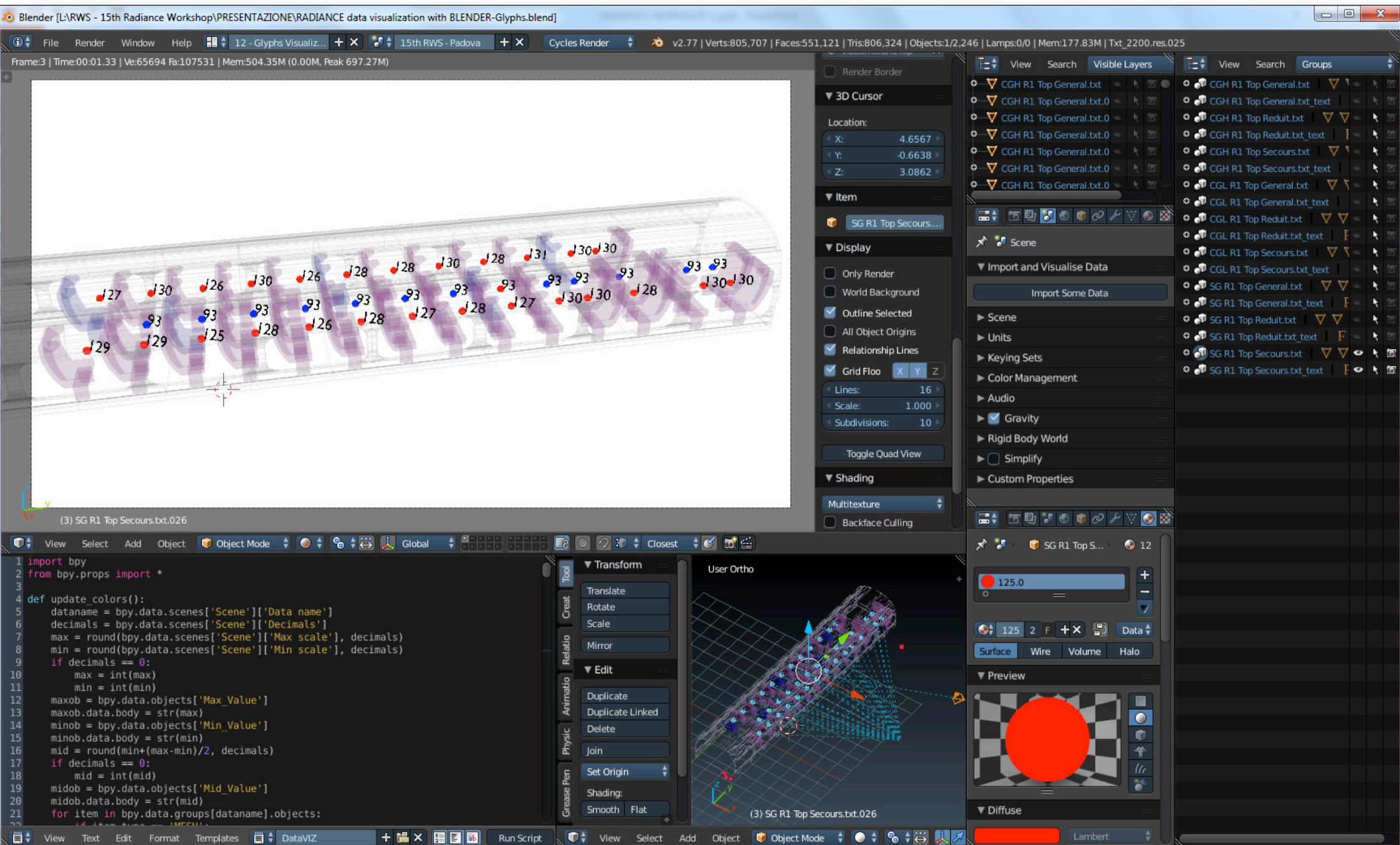
Time:00:13.84 | Mem:11.64M, Peak:11.64M | Done | Path Tracing Sample 10/10

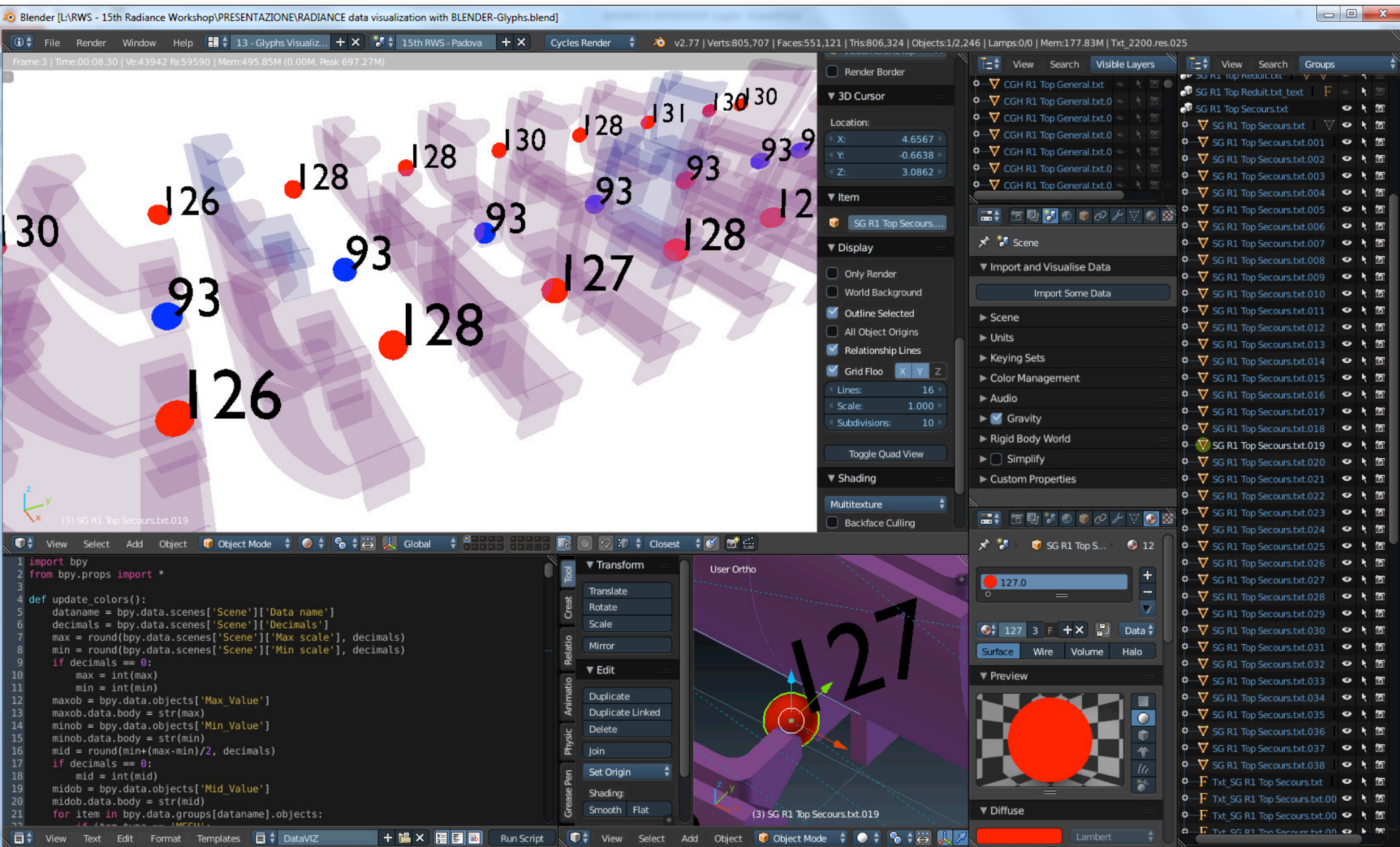
View Search Visible Layers Color

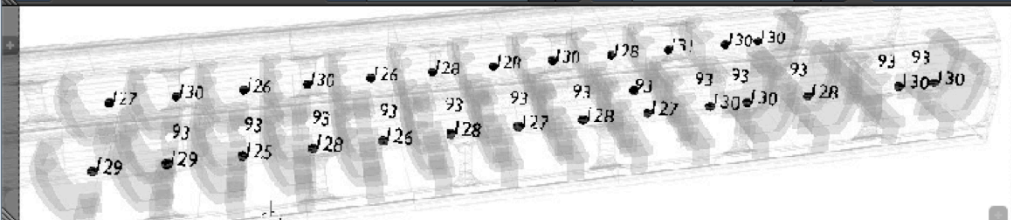


```
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242
new_mat.name = str(value)
else:
    new_mat.use_shadeless = False
    new_mat.emit = 0.05
    new_mat.specular_intensity = 0
    item_color = bpy.data.textures["Colormap"].color_ramp.evaluate(num)
    new_mat.diffuse_color = (item_color[0], item_color[1], item_color[2])

if shadelessSpheres == True:
    new_mat.use_shadeless = True
    new_mat.emit = 0
```

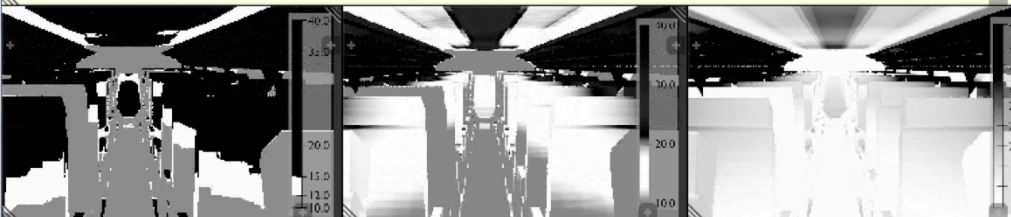





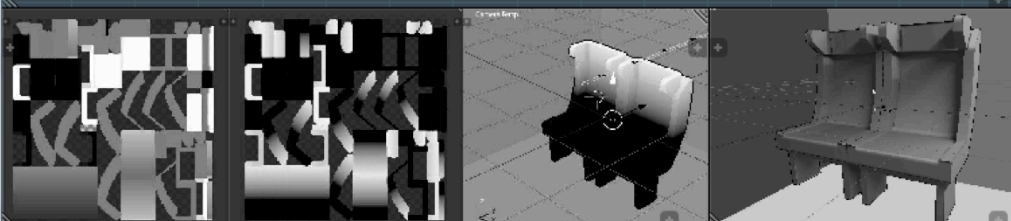


Time:00:25.98 | Remaining:00:47.84 | Mem:25.51M, Peak:25.51M | Path Tracing Sample 176/500

Isolines

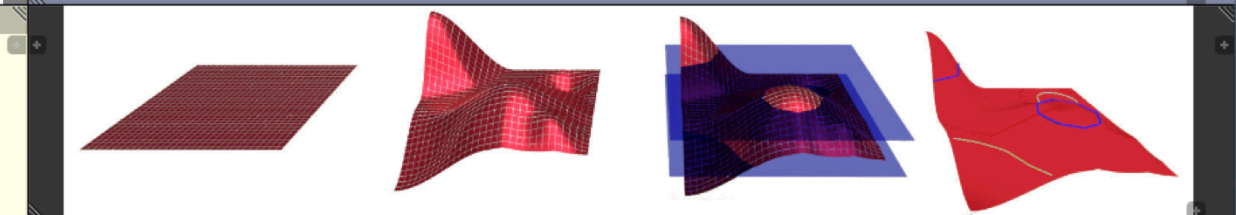


Compositing

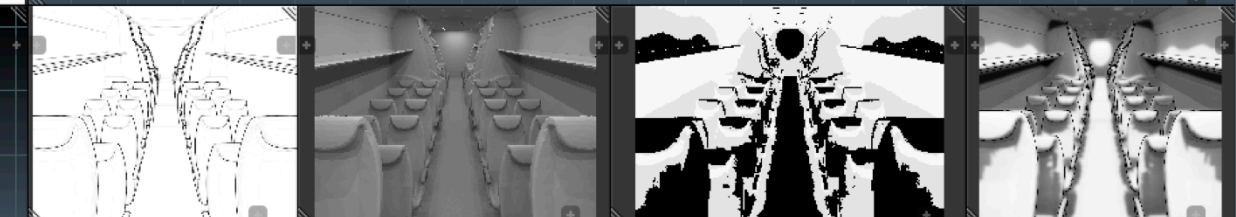


Bonus?

Glyphs Visualization



Interactive Falsecolor



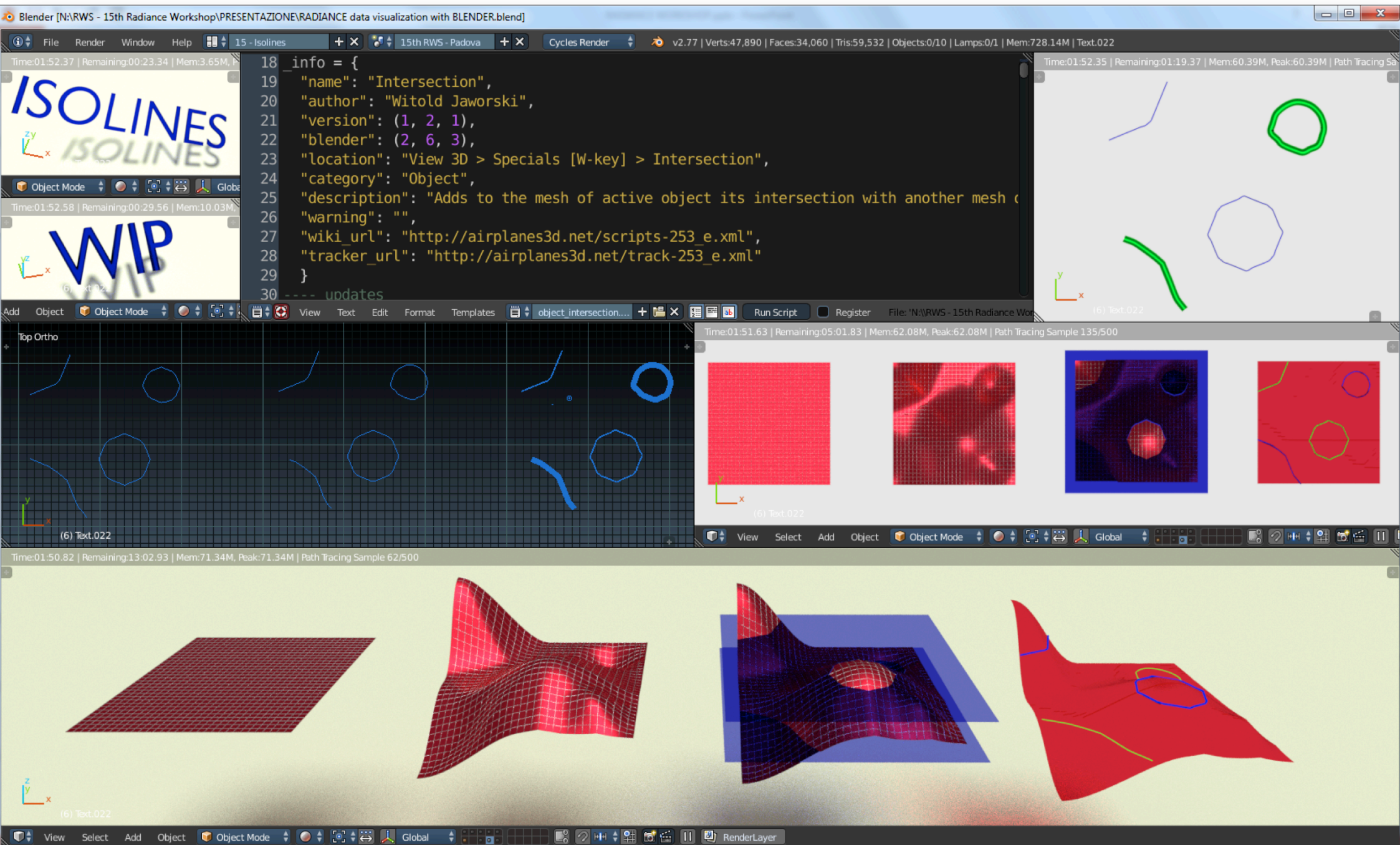
Baking

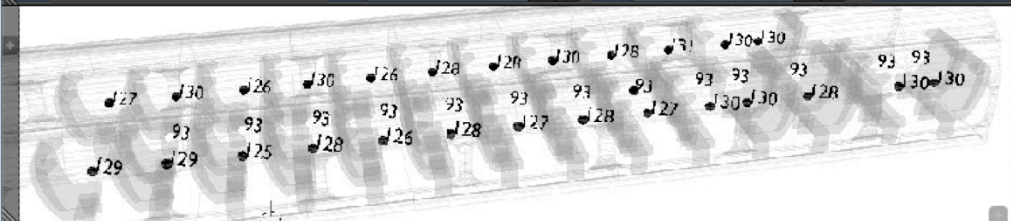
```
vh = (imgX + vv) / imgY
vt = "v"
if vhw=120 and vvw=90:
    vt = "c"
elif vhw=120 and vvw=180:
    vt = "h"
elif vhw=180 and vvw=180:
    vt = "a"

if obj.data.type == "ORTHO":
    vt = "l"

type = EnumProperty(items=(('multiple', "Radiance view files", "Exports multiple Radiance view files"),
                           ('coords', "Coordinates", "Exports one file containing a list of 6 coordinates"),
                           ('coords', "Coordinates", "Exports one file containing a list of 6 coordinates")),
                    name="Type",
                    description="Choose between two items",
                    default='multiple')
#default= 'coords')

@classmethod
def Run Script
Register
Text: Internal
Edit Format Templates Csh Multiprocessing
```



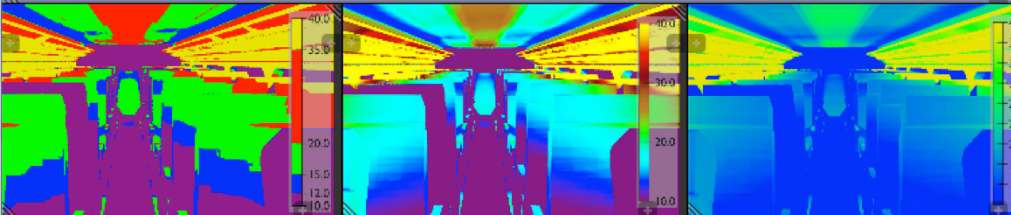
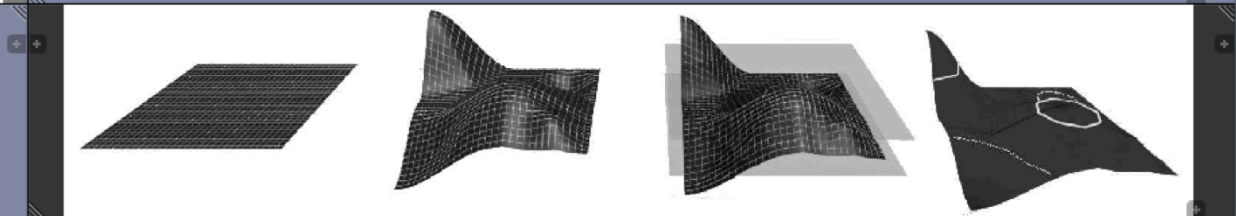


Glyphs Visualization

(6) Text.022

Isolines

(6) Text.022

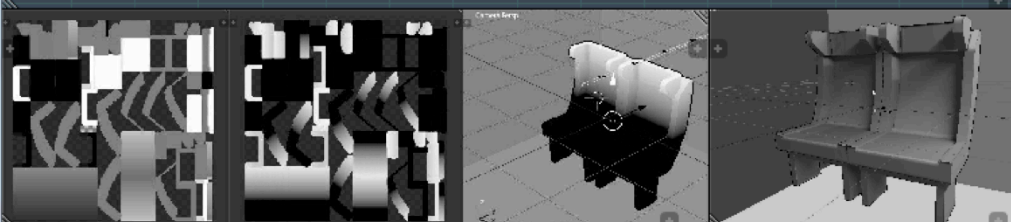


Interactive Falsecolor

Time:00:14.39 | Remaining:01:20.32 | Mem:26.07M, Peak:26.07M | Path Tracing Sample 76/500

Compositing

(6) Text.022



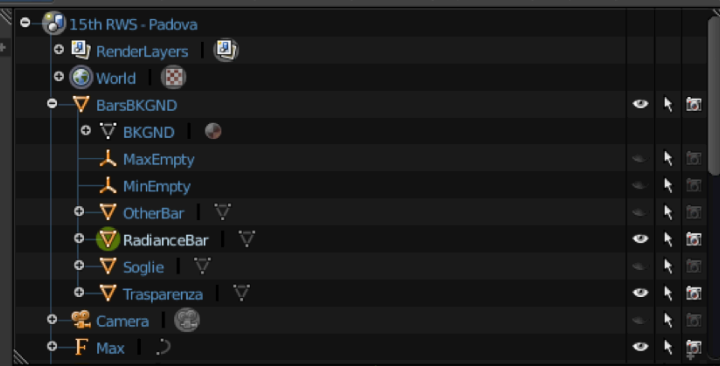
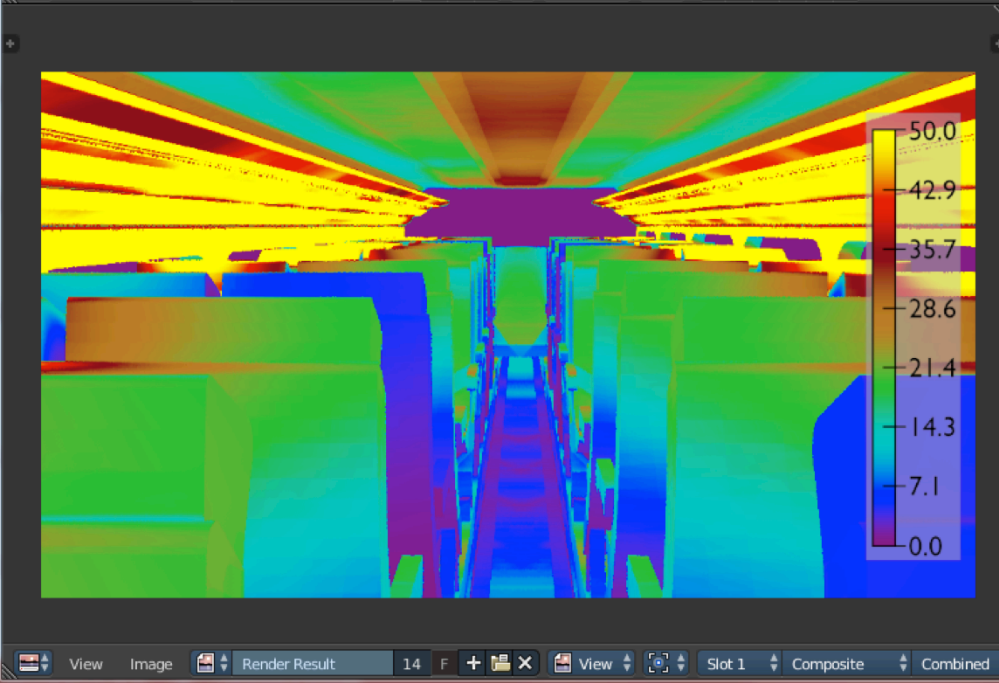
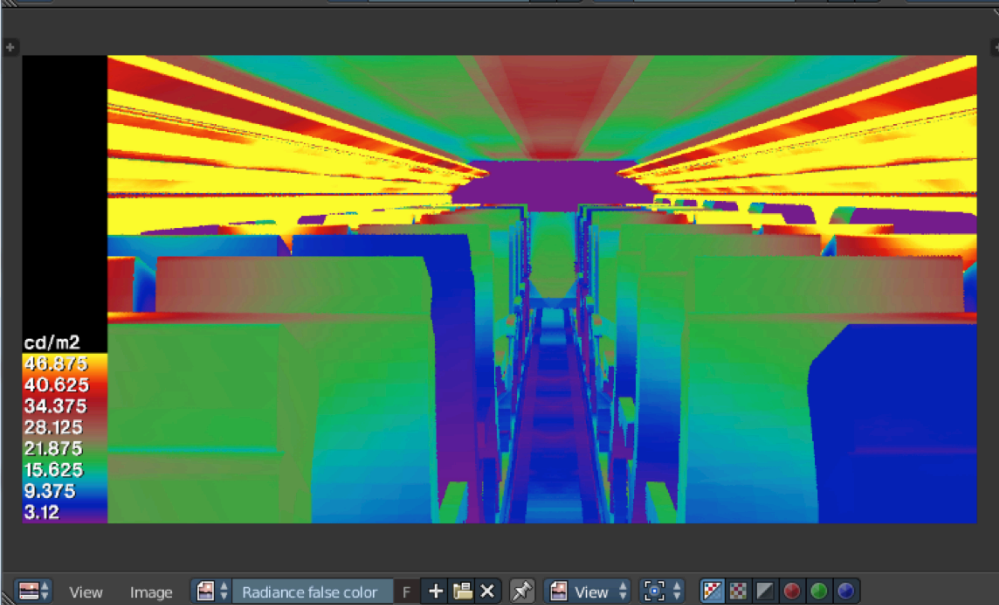
Baking

(6) Text.022

Bonus?

(6) Text.022

```
vh = (imgX + vv) / imgY  
vt = "v"  
if vhw=120 and vvw=90:  
    vt = "c"  
elif vhw=120 and vvw=180:  
    vt = "h"  
elif vhw=180 and vvw=180:  
    vt = "a"  
if obj.data.type == "ORTHO":  
    vt = "l"  
  
type = EnumProperty(items=[('multiple', "Radiance view files", "Exports multiple Radiance view files"),  
    ('coords', "Coordinates", "Exports one file containing a list of 6 coordinates"),  
    ],  
    name="Type",  
    description="Choose between two items",  
    default='multiple',  
    #default='coords')  
  
@classmethod  
def Run Script  
Register  
Text: Internal  
Edit Format Templates Csh Multiprocessing
```



```

117 ob.active_material = mat
118
119 #####valore massimo
120 #####
121 bpy.ops.object.text_add(radius=0.03, view_align=True, enter_editmode=False, location=(locmax.x + 0.015, locmax.y - 0.01, locmax.z))
122 bpy.ops.object.group_link(group="barvalues")
123 maxtxt = bpy.context.object
124 #maxtxt = bpy.data.objects[-1]
125 maxtxt.name = "Max"
126 Max = bpy.data.textures[referenceTex]['Max']
127 maxtxt.data.body = str(round(Max+0.00000,1))
128 bpy.ops.object.material_slot_add()
129 maxtxt.active_material = mat
130 bpy.data.scenes['15th RWS - Padova'].node_tree.nodes["Max"].outputs[0].default_value = Max
131
132 bpy.ops.mesh.primitive_plane_add(view_align=True, enter_editmode=False, location=(locmax.x, locmax.y + 0.001, locmax.z))
    
```

View Text Edit Format Templates Coloramps Transfer Run Script Register Text: Internal

Type: Blend

Colors

Ramp

RGB Ease

Pos: 0.250

RGB Multiply: R: 1.000 G: 1.000 B: 1.000

Adjust: Brightness: 1.000 Contrast: 1.000 Saturation: 1.000

Clamp

Custom Properties

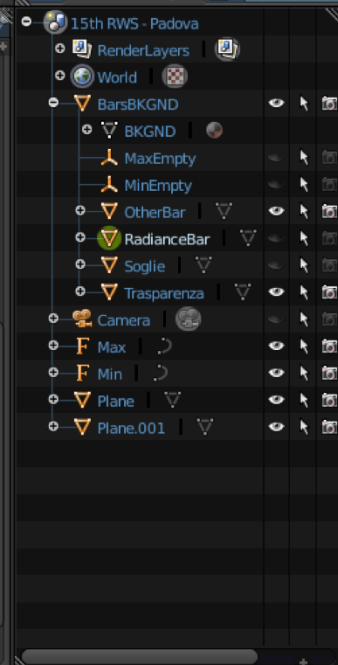
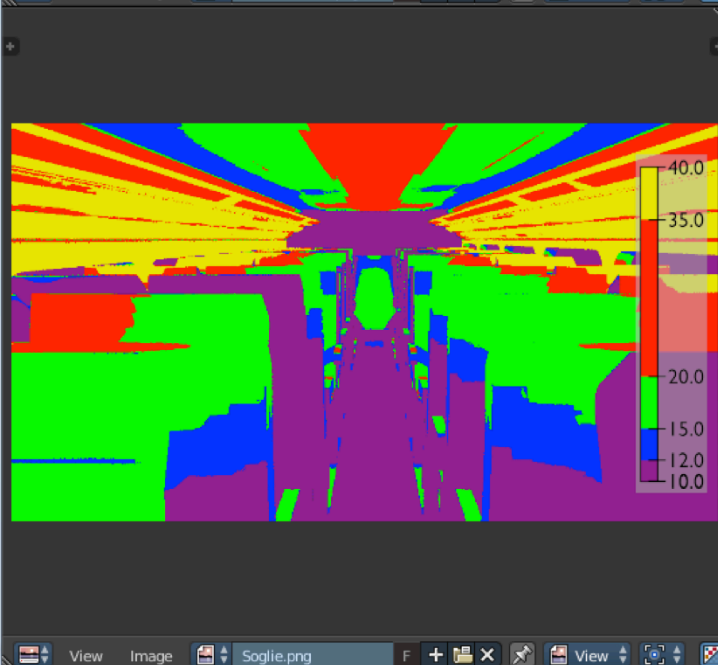
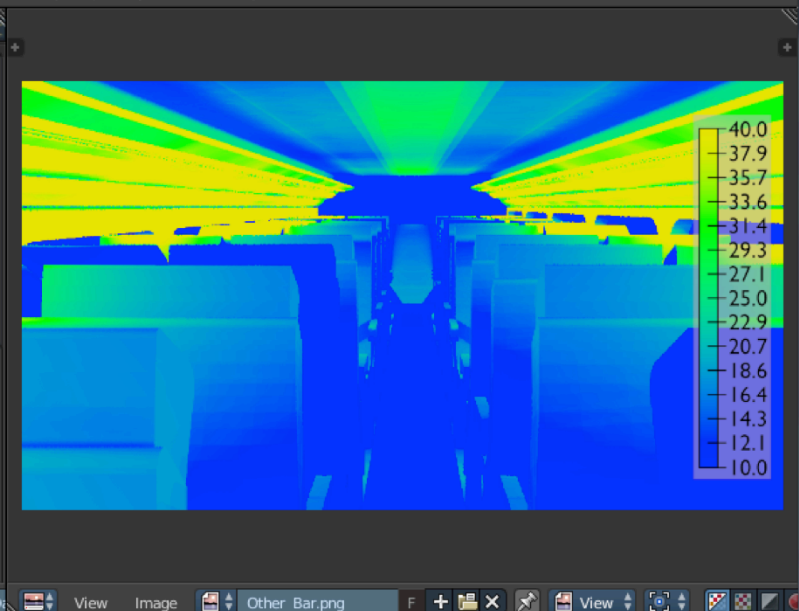
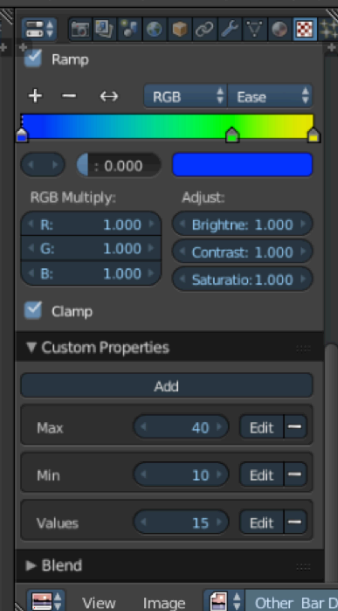
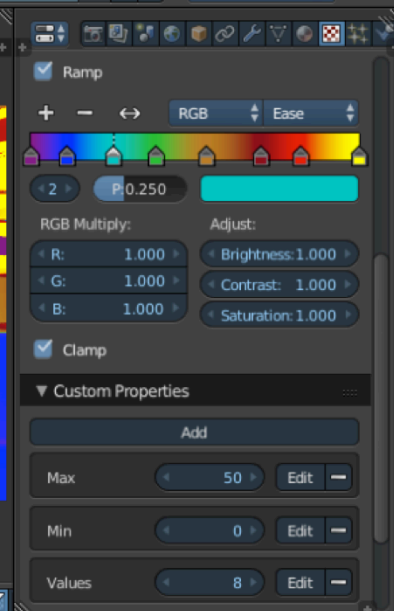
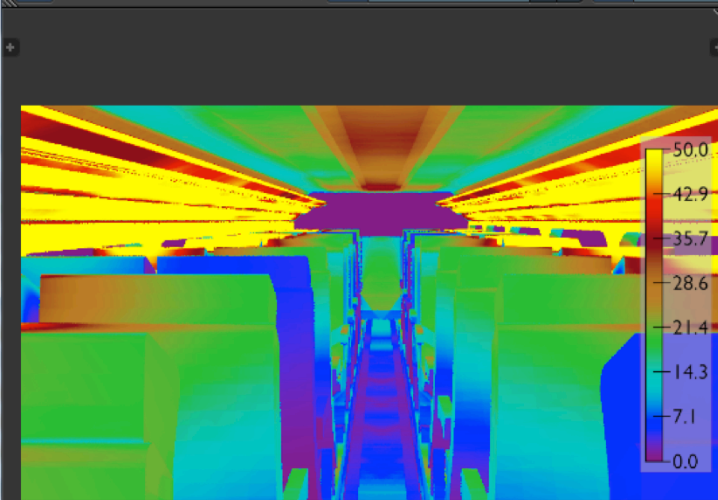
Add

Max 50 Edit

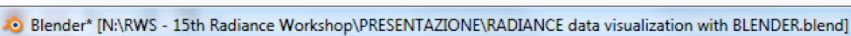
Min 0 Edit

Values 8 Edit

Preview Blend Mapping



```
13 stop()
14
15 #Cancella gruppo preesistente che contiene le tacche e i numeri
16 for ob in bpy.data.objects:
17     ob.select = False
18
19 for ob in bpy.data.groups['barvalues'].objects:
20     ob.select = True
21     bpy.ops.object.delete()
22
23 # rende visibile e renderizzabile solo la color map utilizzata
24 for ob in bpy.data.objects:
25     ob.hide = True
26     ob.hide_render = True
27
28 obj = bpy.context.active_object
29 obj.hide = False
30 obj.hide_render = False
31 ob = bpy.data.objects['BarsBKGND']
32 ob.hide = False
33 ob.hide_render = False
34 ob = bpy.data.objects['Trasparenza']
35 ob.hide = False
36 ob.hide_render = False
37
38 area = bpy.context.area
39 old_type = area.type
40 area.type = 'NODE_EDITOR'
41
42
43 def copybar(referenceRamp):
```



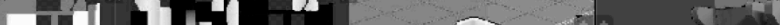
File Render Window Help 19 - Compositing 15th RWS - Padova Cycles Render v2.77 | Verts:47,890 | Faces:34,060 | Tris:59,532 | Objects:0/10 | Lamps:0/1 | Mem:368.87M | Text:022

[illegible]

Isolines

Time:00:21.13 | Remaining:01:08.40 | Mem:25.58M, Peak:25.58M | Path Tracing Sample 118/500

Compositing



Top Ortho

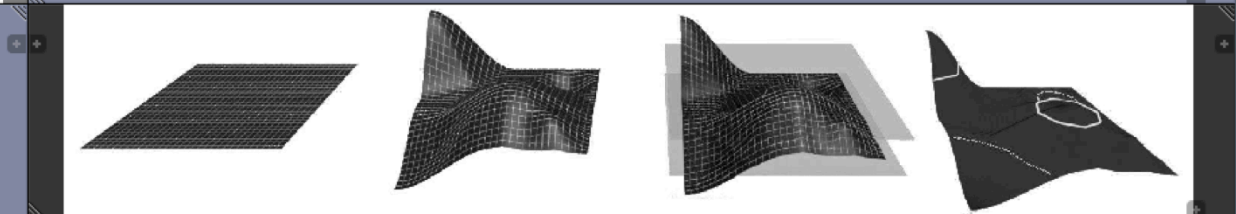
Bonus?

(6) Text.022

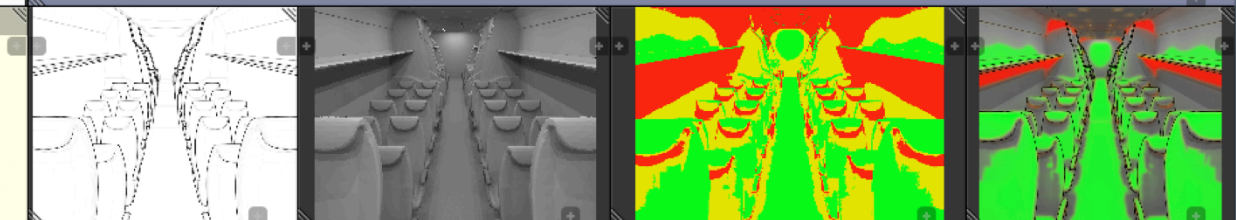
Top Ortho

Glyphs Visualization

(6) Text.022



Interactive Falsecolor



Top Ortho

Baking

(6) Text.022

```

vh = (imgx + vv) / imgy
vt = "v"

if vhm=120 and vvm=90:
    vt = "c"
elif vhm=120 and vvm=180:
    vt = "h"
elif vhm=180 and vvm=180:
    vt = "a"

if obj.data.type == "ORTHO":
    vt = "l"

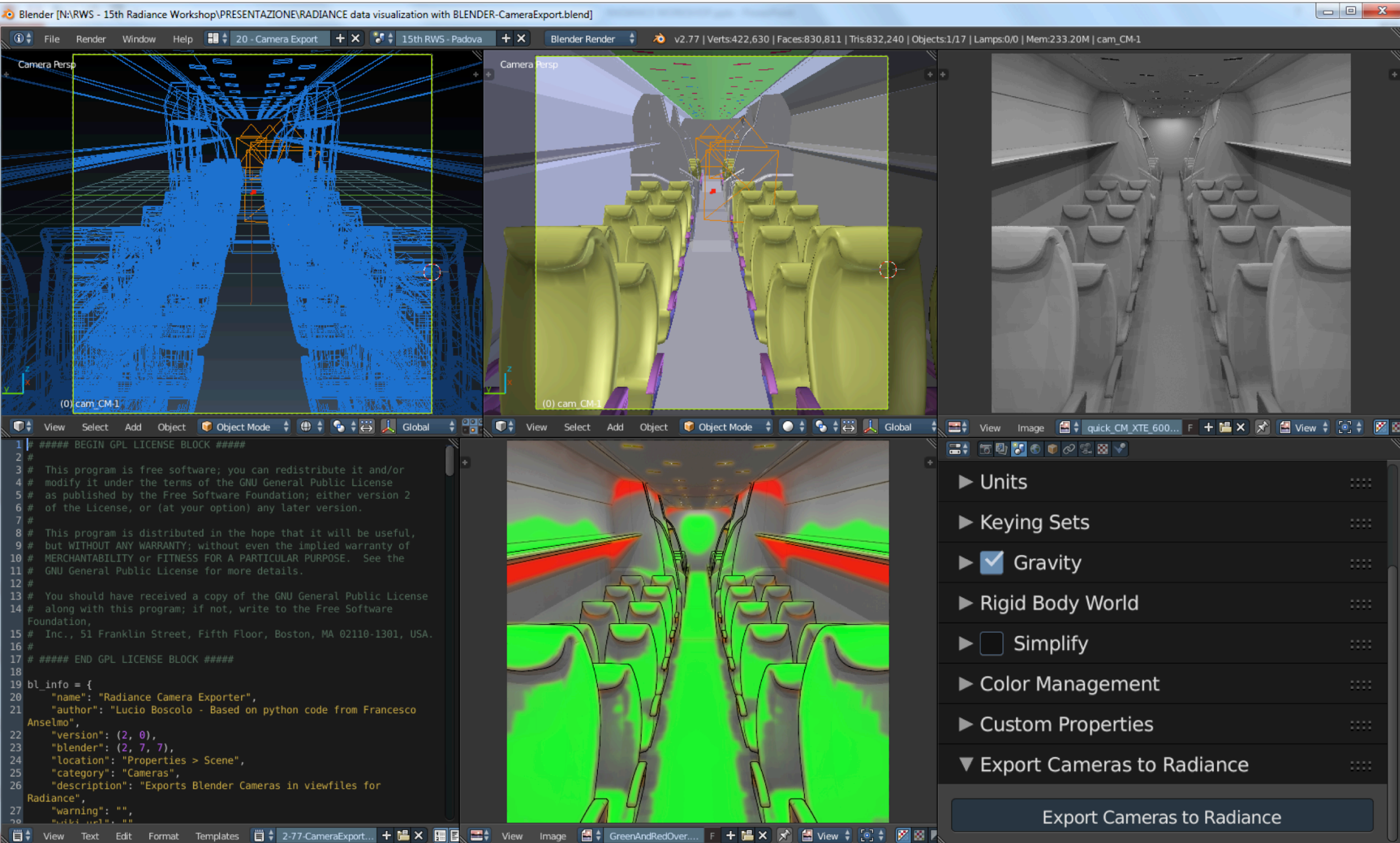
```

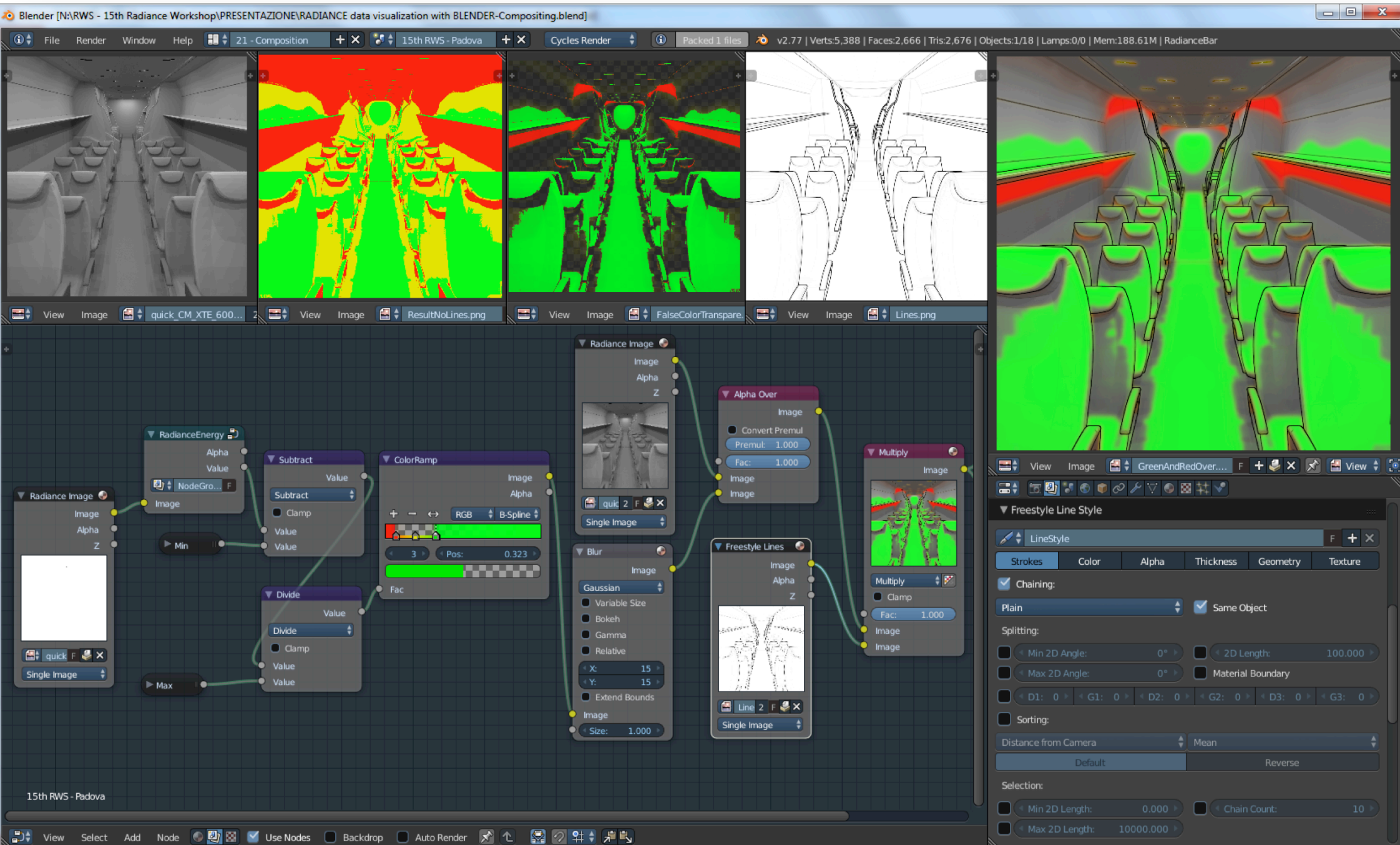
```

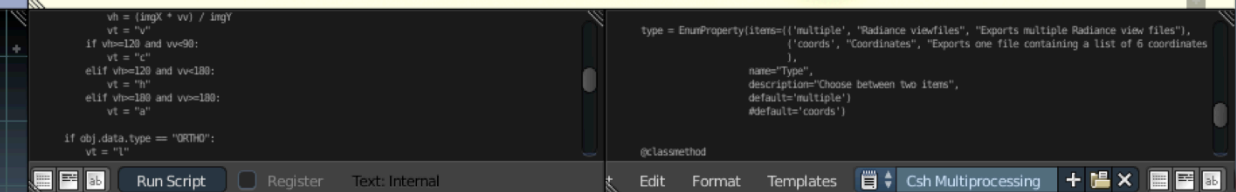
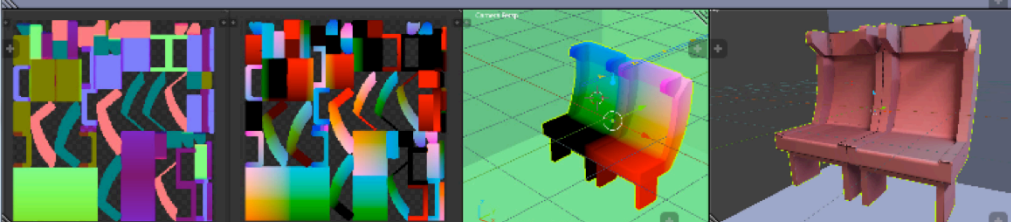
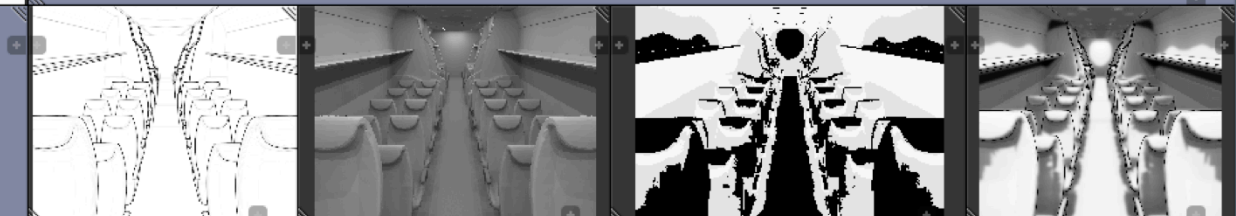
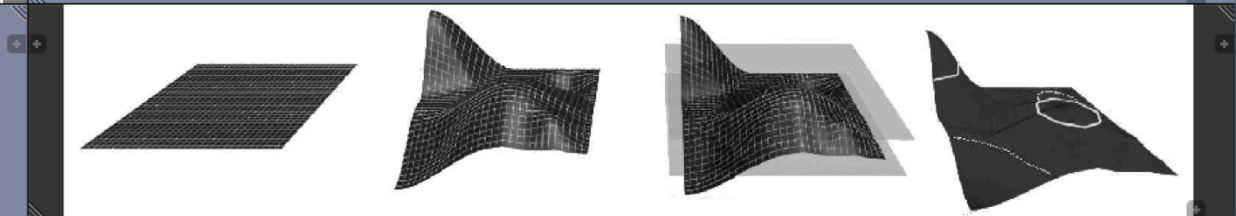
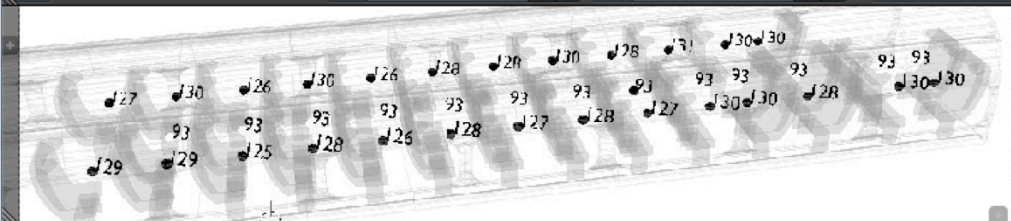
type = EnumPropertyItems (('multiple', "Radiance view files", "Exports multiple Radiance view files"),
                          ('coords', "Coordinates", "Exports one file containing a list of 6 coordinates"),
                          ),
name="Type",
description="Choose between two items",
default='multiple')
#default='coords')

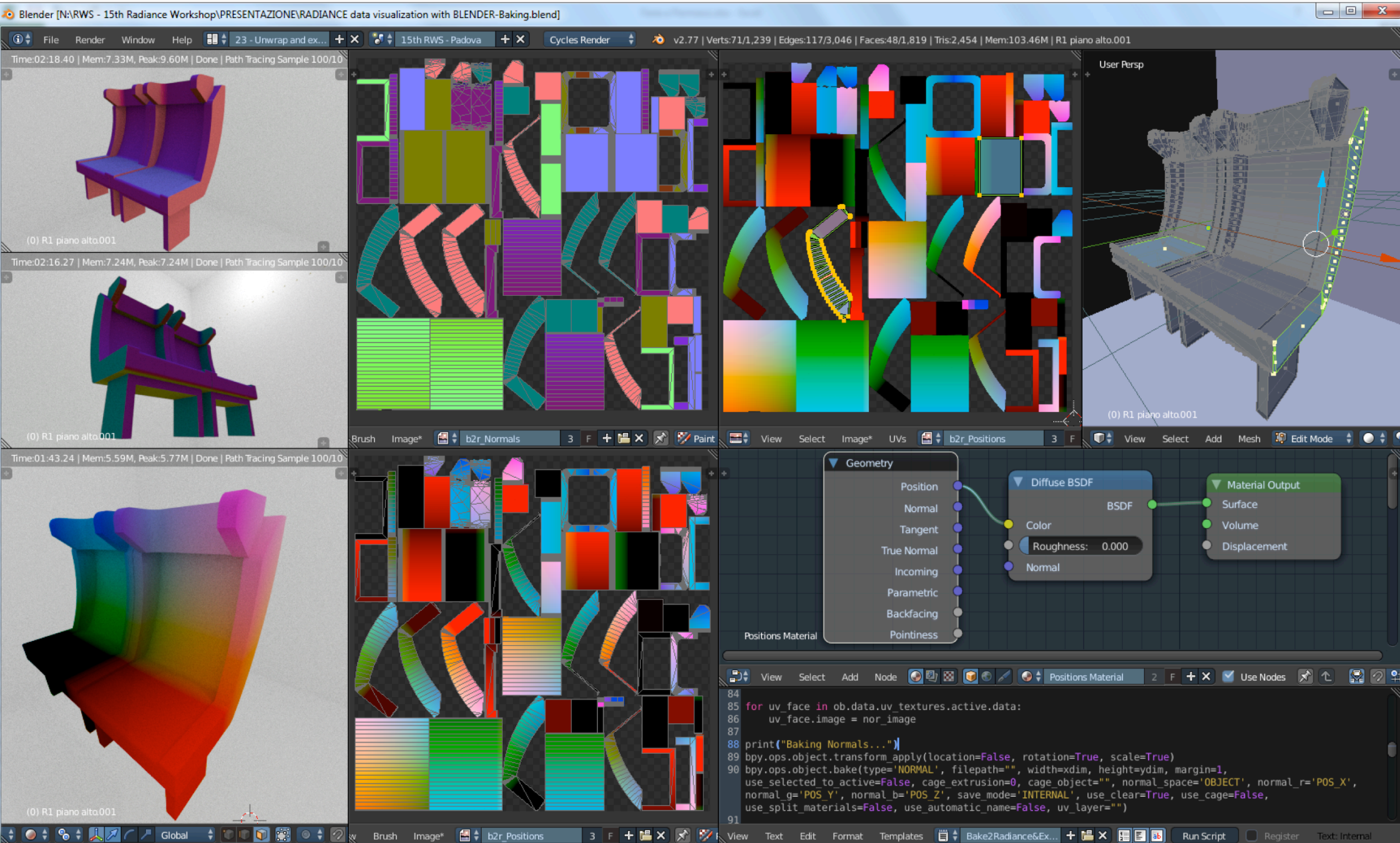
```

@classmethod

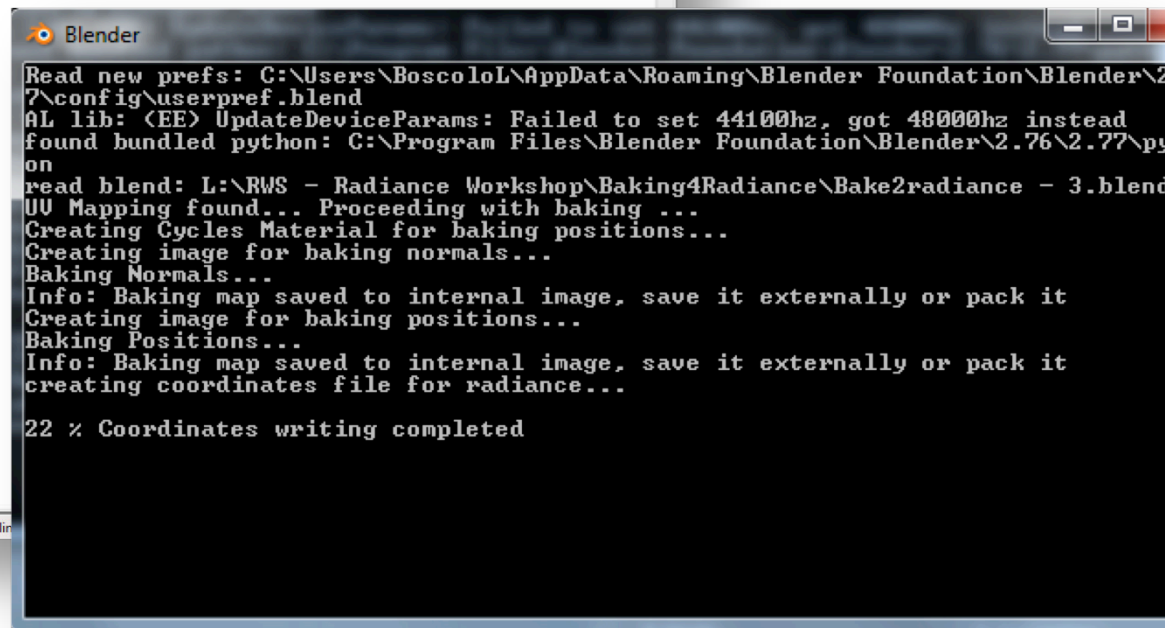


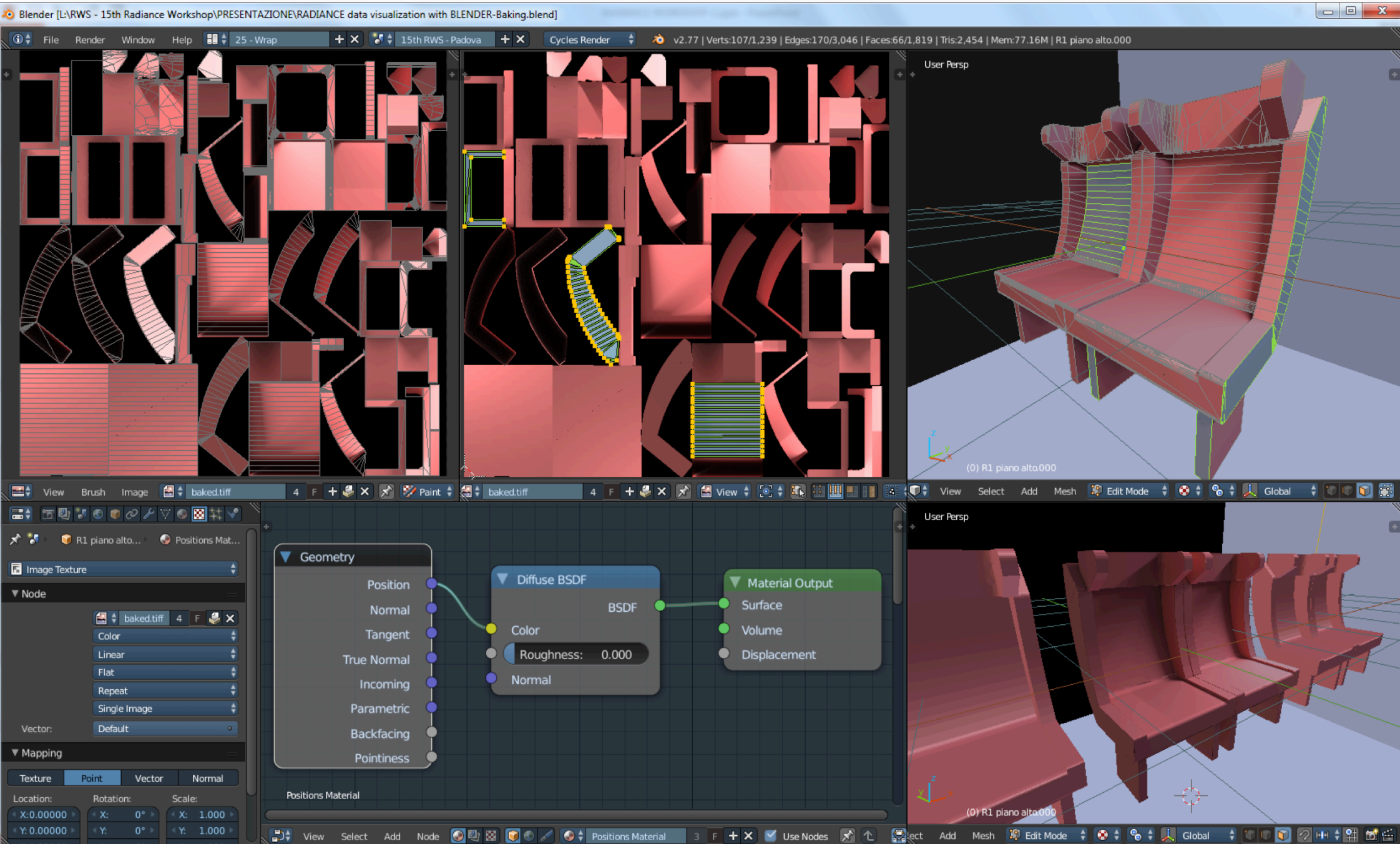







```
Google Drive\BLENDER\Tests\Baking4Radiance\bakefile.dat - Notepad++
File Edit View Encoding Language Settings Macro Run Plugins Window ?
bakefile.dat
57028427124 0.1787096586227417 -0.4642002695500851 0.0039215087890625 -0.7333334684371948 0.678431361913681
05528259278 0.17866069340705873 -0.4641944878995419 0.0039215087890625 -0.7333334684371948 0.678431361913681
74348526001 0.17861178779602052 -0.4641885572373867 0.0039215087890625 -0.7333334684371948 0.678431361913681
279592514038 0.1785628821849823 -0.46418262657523157 0.0039215087890625 -0.7333334684371948 0.678431361913681
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Menu

Help

Sun Lightmap

Switch to DF

Print Screen

Quit

Select Time

15 June - 9.00

9 April - 12.00

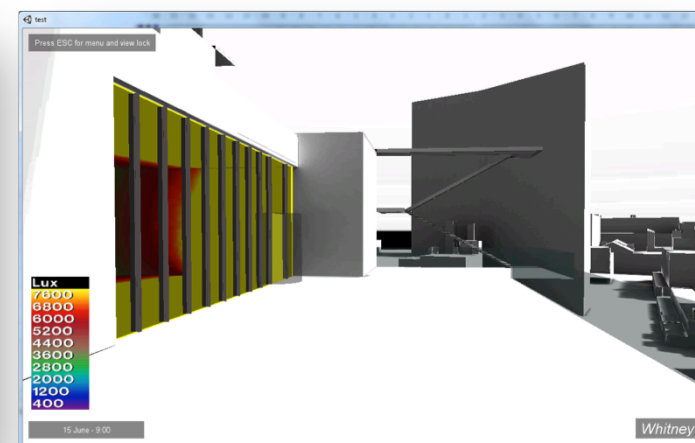
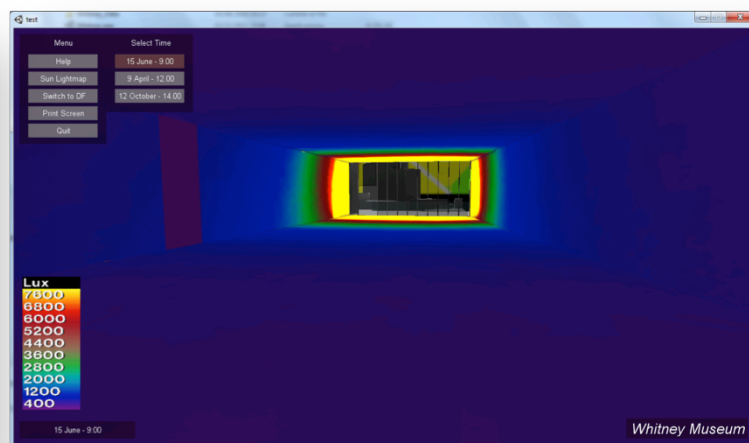
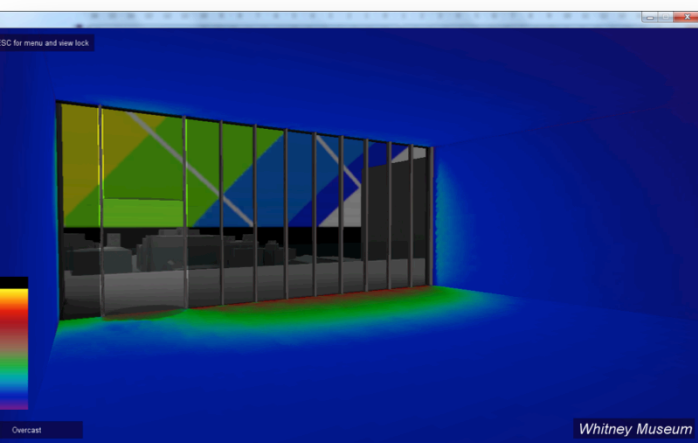
12 October - 14.00

Courtesy of Arup Lighting, London

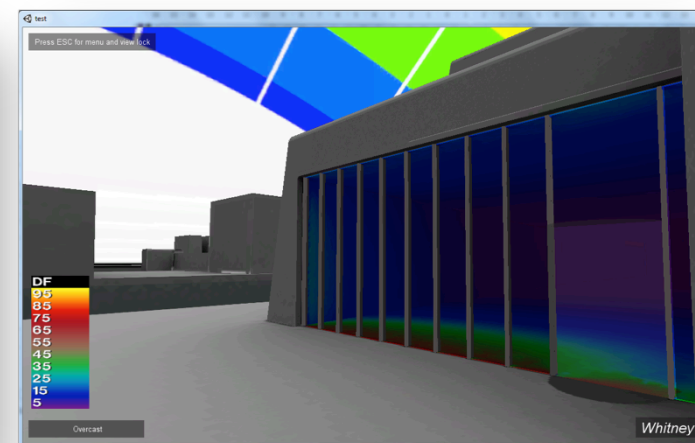
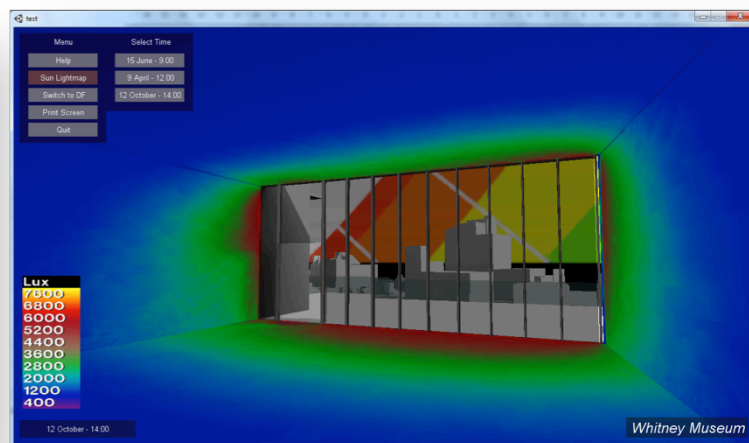
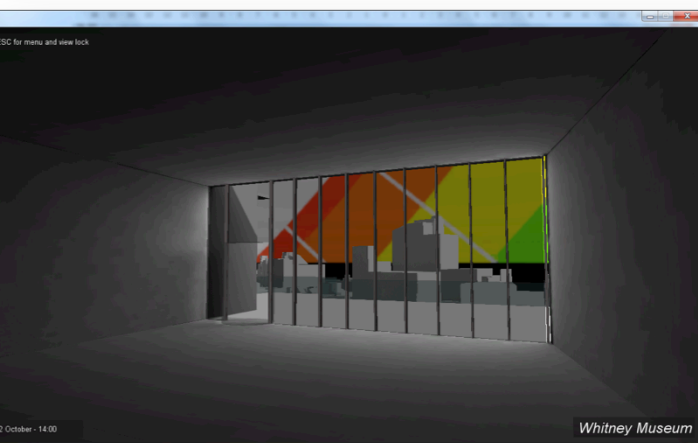


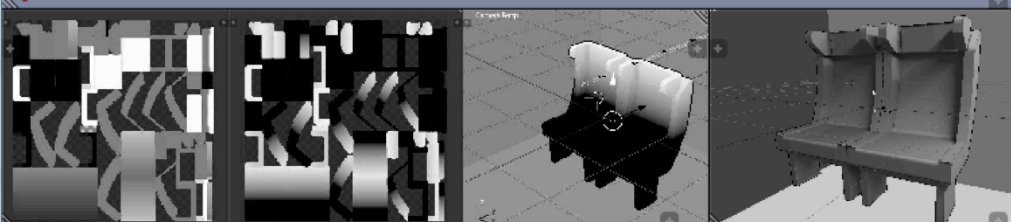
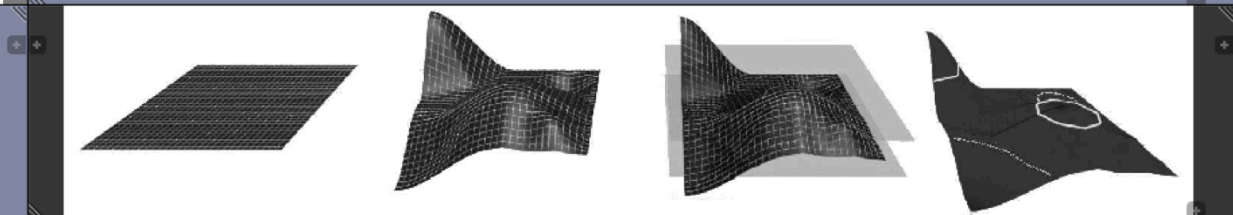
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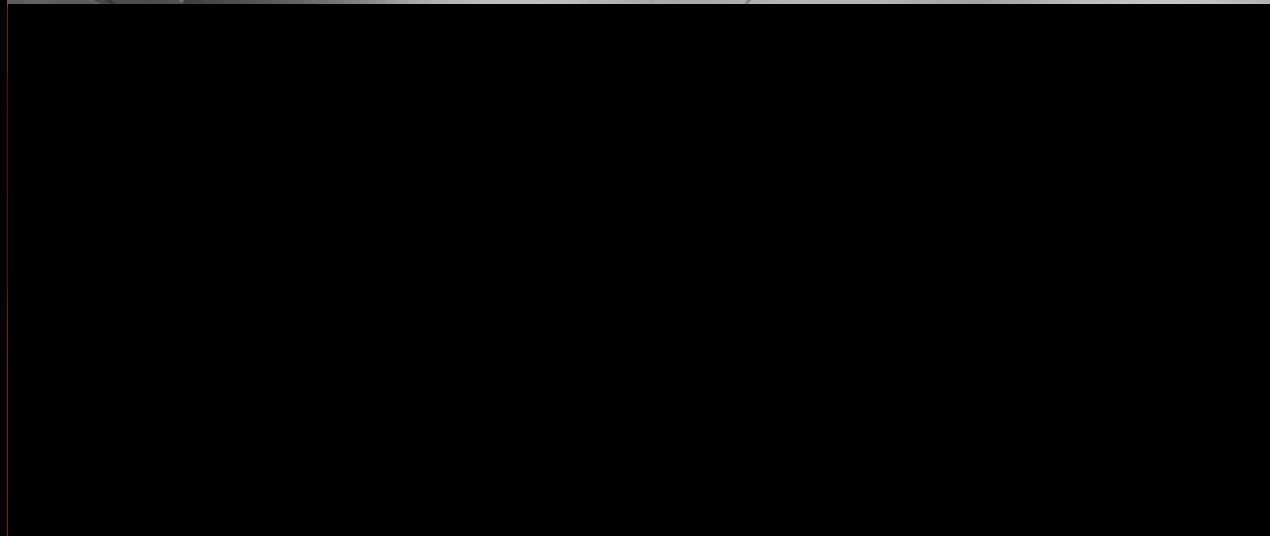
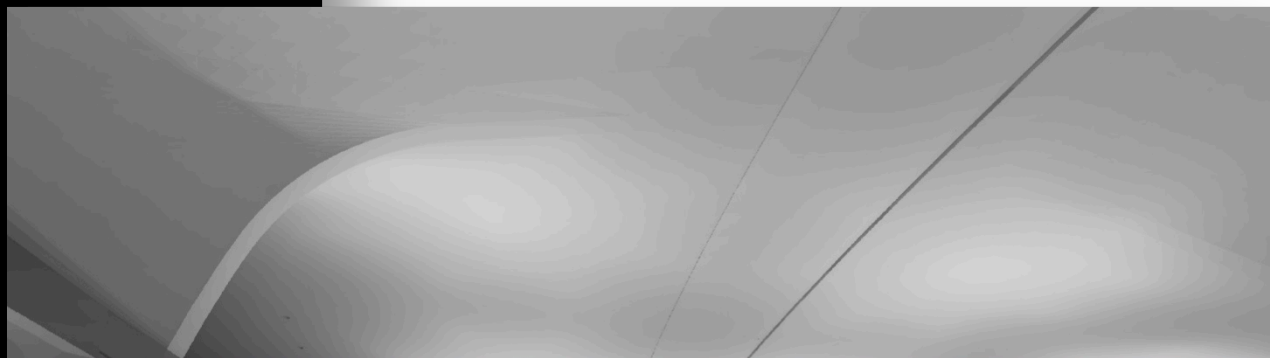
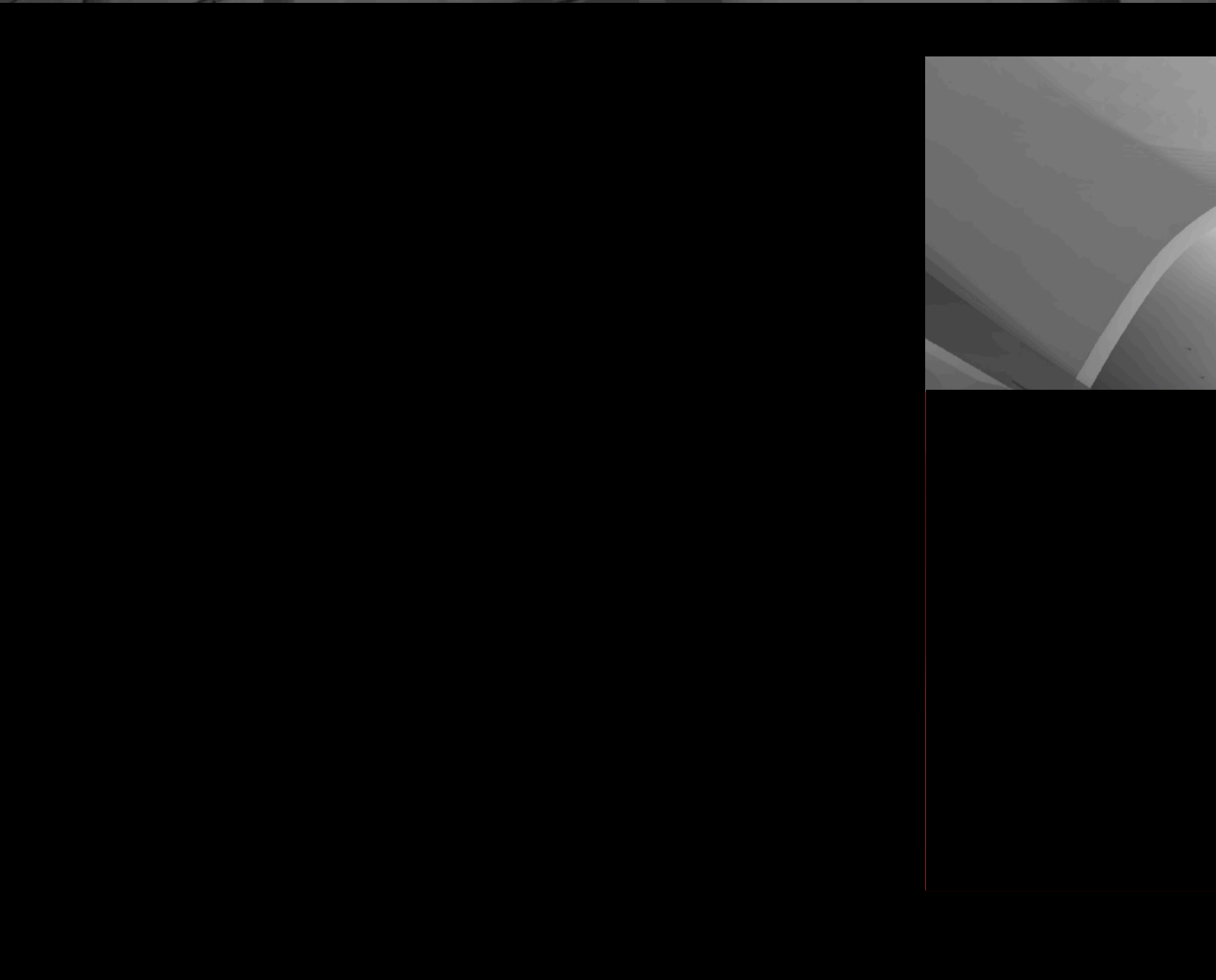
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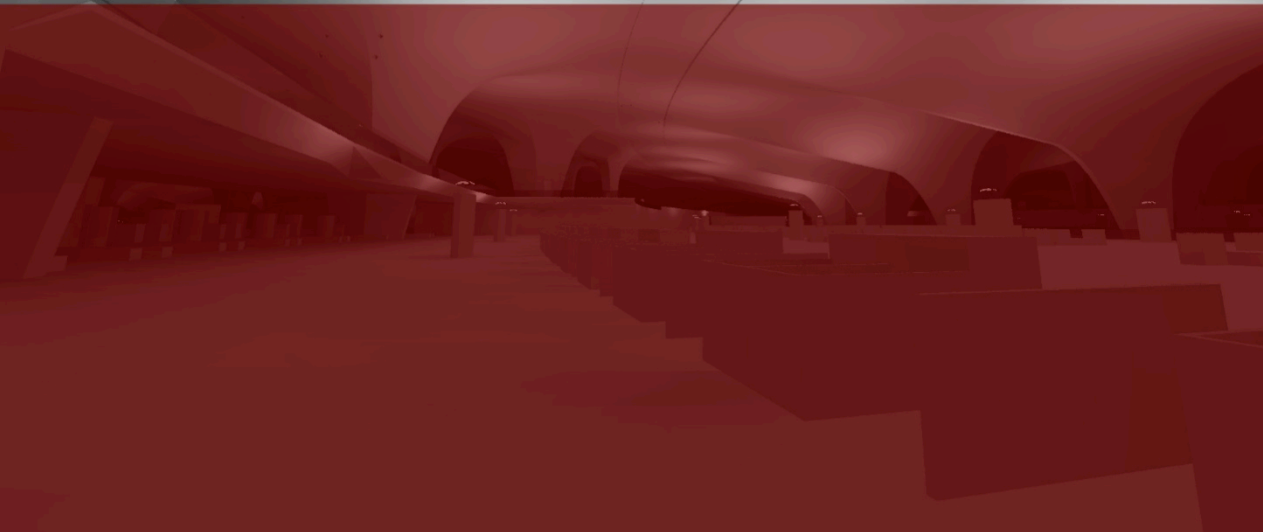
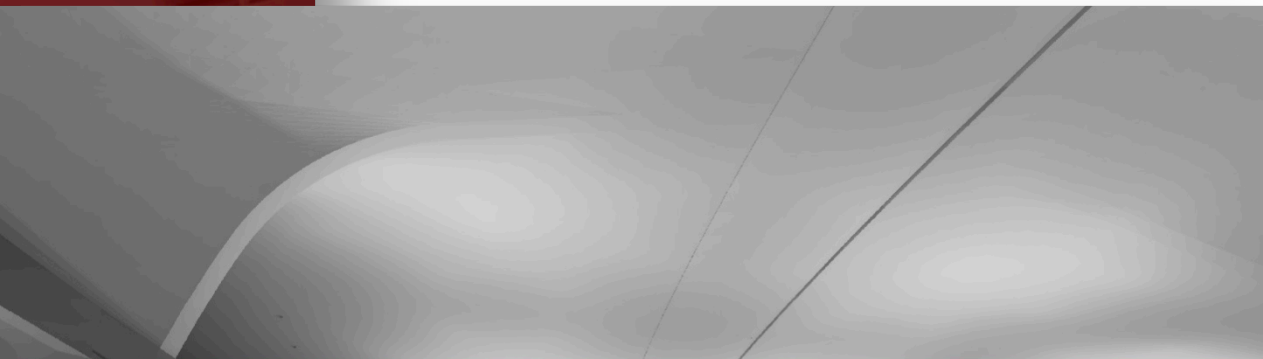
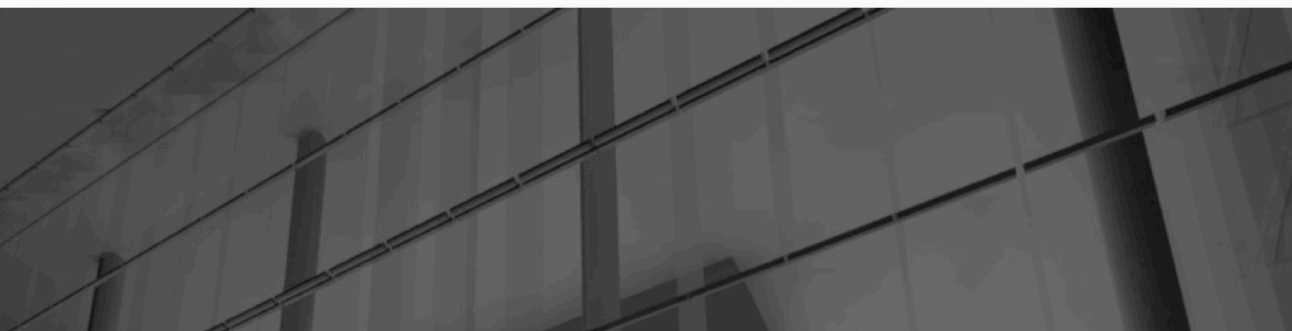


All images courtesy of Arup Lighting, London









All images courtesy of Arup Lighting, London

```
1 set count = 0
2 set maxproc = 3
3
4 foreach resolution (64 128 256 512 1024 ...)
5
6     while ($count >= $maxproc)
7         set count = `ps | grep rpict | wc -l`
8         echo "Waiting for available process ... "
9         sleep 10
10    end
11
12    rpict -x $resolution -y $resolution [params and amb and octree files] > pics/intermediate/pic1.
13    $resolution.pic &
14    set count = `ps | grep rpict | wc -l`
15
16    # WHILE AS BEFORE
17    while ($count >= $maxproc)
18        set count = `ps | grep rpict | wc -l`
19        echo "Waiting for available process ... "
20        sleep 10
21    end
22
23    #[another rpict process]
24    set count = `ps | grep rpict | wc -l`
25
26    #[... and so on for each rpict process needed ...]
27 end
28
```


L:\RWS - 15th Radiance Workshop\BONUS\ProgressiveRtrace.csh - Notepad++

File Edit Search View Encoding Language Settings Macro Run Plugins Window ?

ProgressiveRrpicl.csh ProgressiveRtrace.csh

```
1
2 set procllines = `wc -l grids/grid1.grd`
3
4 head -n $curline1 grids/grid1.grd | tail -n 1 | rtrace1 [...] | rcalc [...] > results/resProcl.res
5
6 set perc1 = `ev $curline1/\($procllines[1]+1\)*100 | tr . " "`
7
8 echo "Process 1 progress:" $perc1[1] "%."
9
10
```

Unix script file length: 3674 lines: 131 Ln: 4 Col: 8 Sel: 0 Dos\Windows ANSI INS



15th Radiance International Workshop

That's all Folks!

Any
Question?

Lucio
Boscolo
Mezzopan

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