15th Radiance International Workshop

with BLENDER

data Visualization

RADIANCE
Lucio Boscolo Mezzopan

3D Graphics Projects

Moto-GP

E-Snake
Lucio Boscolo Mezzopan

Works @ Arup

All images courtesy of Arup Lighting, London
Lucio Boscolo Mezzopan
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!
Glyphs Visualization

Isolines

Interactive Falsecolor

Compositing

Baking

Bonus?
Isolines

Glyphs Visualization

Interactive Falsecolor

Compositing

Baking

Bonus?
Blender (15th Radiance Workshop) Presentation: Visualization with Blender

- Glyphs Visualization
- Isolines
- Interactive Falsecolor
- Compositing
- Baking
- Bonus?
```plaintext
Read new pref: C:\Users\Boscolol\AppData\Roaming\Blender Foundation\Blender\config\userpref.blend
At lib: (EE) UpdateDeviceParams: Failed to set 44100hz, got 48000hz instead
found bundled python: C:\Program Files\Blender Foundation\Blender\2.76\2.77\python
Bakefile.dat: L:\BMS - Radiance Workshop\Baking\Baking4Radiance\Bake2radiance - 3.blend
    UV Mapping found... Proceeding with baking...
Creating Cycles Material for baking positions...
Creating Image for baking normals...
Baking Normals...
Info: Baking map saved to internal image. save it externally or pack it
Creating Image for baking positions...
Baking Positions...
Info: Baking map saved to internal image. save it externally or pack it
creating coordinates file for radiance...
22 x Coordinates writing completed
```
Courtesy of Arup Lighting, London
All images courtesy of Arup Lighting, London
Glyphs Visualization

Isolines

Interactive Falsecolor

Compositing

Baking

Bonus!
set count = 0
set maxproc = 3

foreach resolution (64 128 256 512 1024 ...)
    while ($count >= $maxproc)
        set count = `ps | grep r pict | wc -l`
        echo "Waiting for available process ... "
        sleep 10
    end

    r pict -x $resolution -y $resolution [params and amb and octree files] > pics/intermediate/pic1.
    $resolution.pic &
    set count = `ps | grep r pict | wc -l`

    # WHILE AS BEFORE
    while ($count >= $maxproc)
        set count = `ps | grep r pict | wc -l`
        echo "Waiting for available process ... "
        sleep 10
    end

    # [another r pict process]
    set count = `ps | grep r pict | wc -l`

    # [ ... and so on for each r pict process needed ... ]
end
set proc1lines = `wc -l grids/grid1.grd`

head -n $curline1 grids/grid1.grd | tail -n 1 | rtrace1 [...] | rcalc [...] > results/resProc1.res

set percl = `ev $curline1/\($proc1lines[1]+1\)\*100 | tr . " "`

echo "Process 1 progress: $percl[1] "."
15th Radiance International Workshop

That's all Folks!

Any Question?

Lucio Boscolo Mezzopan

loscotec@gmail.com