Using Rhino with Radiance
Starting points for a discussion

Randolph M. Fritz
Radiance Applications

**Instantaneous**
- Luminance Visualization (rendering)
- Illuminance calculation
- Metrics (glare, contrast, ...)
- Add your own!

**Over Time**
- Daylight penetration visualization
- Daylight autonomy
- Animations
- Fly-throughs
- Add your own!
Using Rhino

Rendering
- Build model in Rhino
- Export
- Write .rif file
- “Apply” materials
- Add sky models
- Run

Simulation over multiple cases
- Build model(s)
- Export
- Write scripts
- Apply materials
- Run
Animation

• ?

  • I don’t do animations—what do you do?
My Process—Rendering
Process—Rendering

• Model, model, model
• Export as .OBJ
• Assign materials in .rad format
• Build sky model
• Write .rif file
• Rendering
Process—Simulation

- Build multiple simple models (Grasshopper helps with this)
- Export to .OBJ format
- Apply materials
- Build sky models
- Write rtrace scripts and .rif files
- Simulate, simulate, simulate
- Check, check, check