Using Rhino with Radiance
Starting points for a discussion

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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
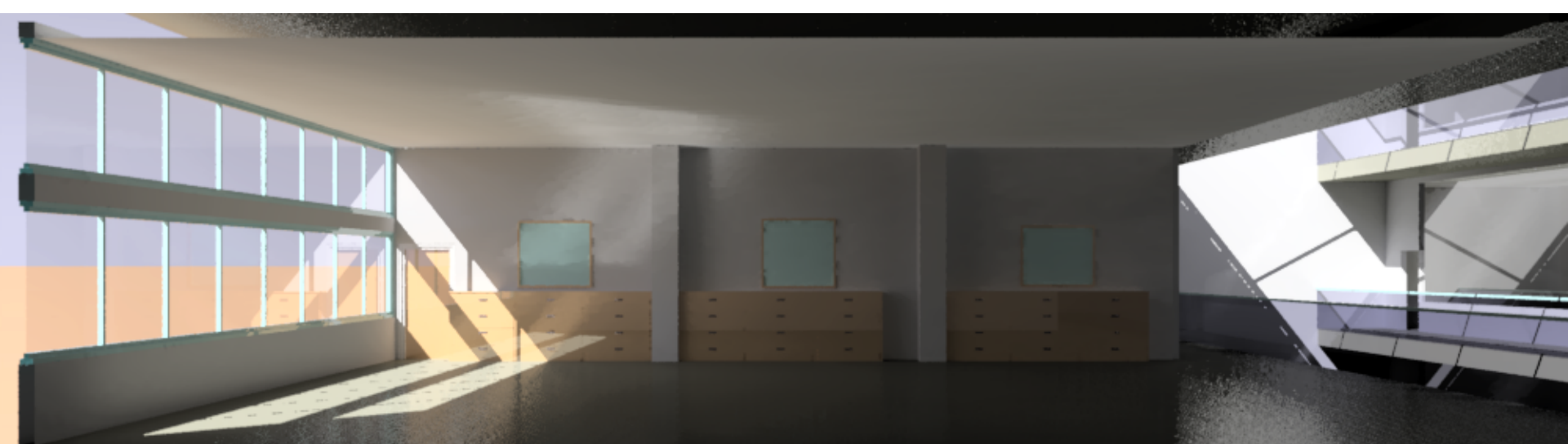
Simulation over multiple cases

- 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