An abstract background on the left side of the slide, consisting of a dense, chaotic network of thin, orange lines of varying lengths and orientations, creating a textured, web-like appearance.

18 August, 2015 9:00 am
Philadelphia Navy Yard, 4960 South 12th St

TAMING RADIANCE

2015 International Radiance Workshop

Despite its power, Radiance is complex, fragile, and limited by machine resources. These aspects have been the barrier to its wider adoption in the building industry. Daniel Glaser will demonstrate LightStanza, a flexible, collaborative and scalable Web Application which will prove to make Radiance accessible to all.

Taming Radiance

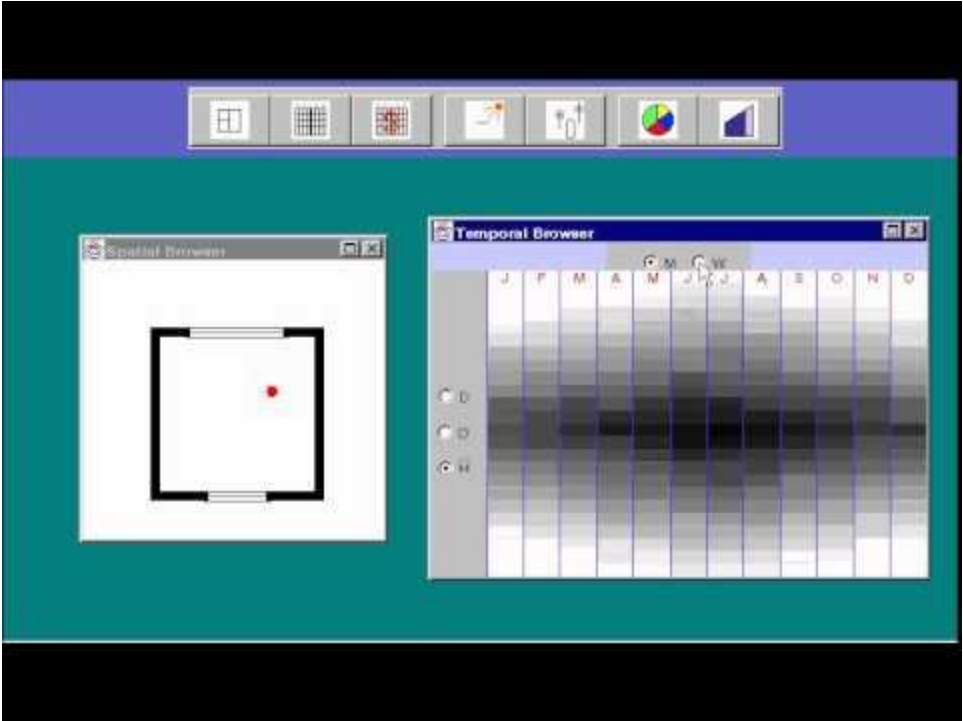
Daniel Glaser, PhD Principal, LightStanza
14th International Radiance Workshop
August 18, 2015

Outline

1. Introduction
2. Early Prototypes
3. Field Work
4. Collaborative Design
5. Initial Deployments
6. LightStanza
7. Q&A

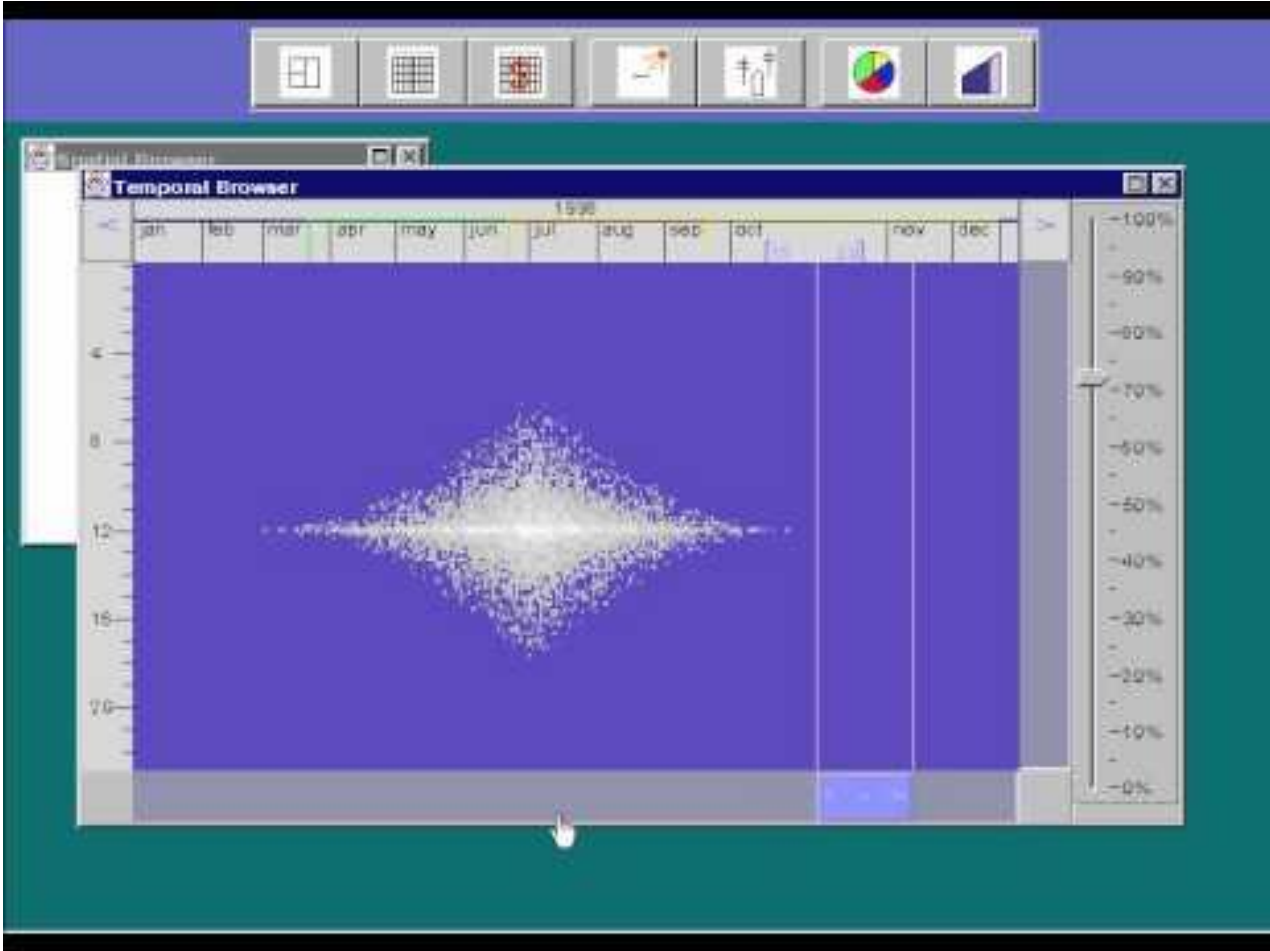
Early Prototypes

Complexity Origins

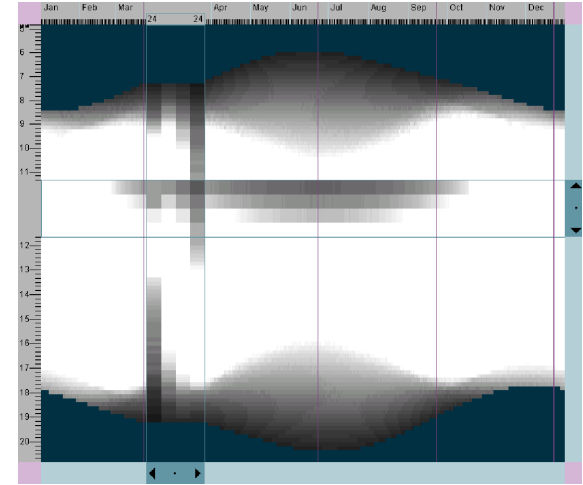
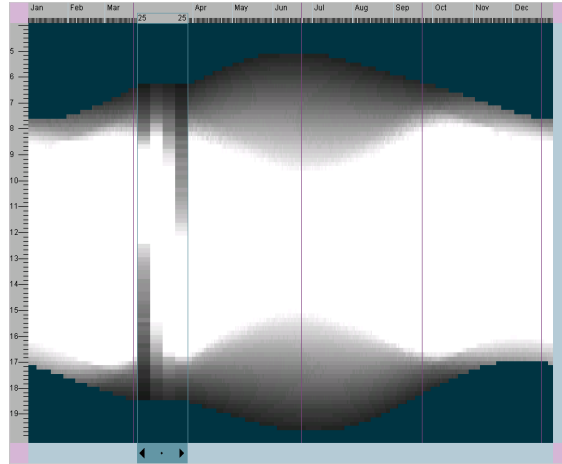
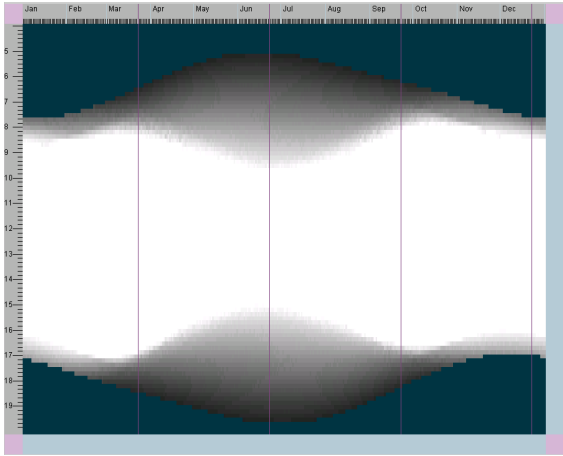


Glaser, 1999 Space Series

Annual Viewer, Early Complex Prototype

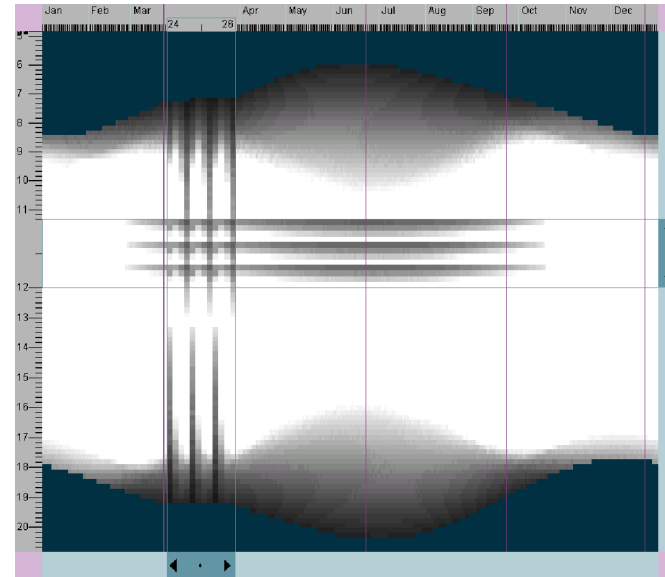
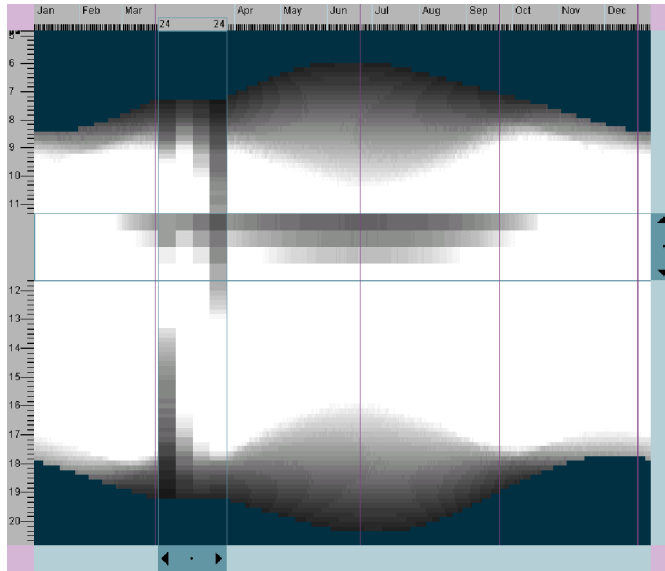


Focus + Context



Glaser, 1999 Space Series

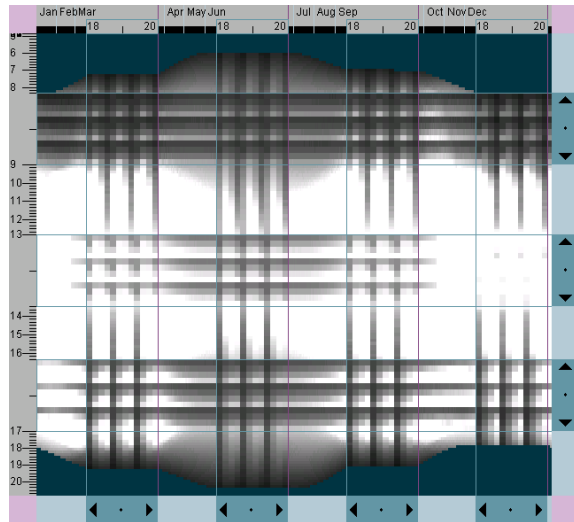
Focus + Context



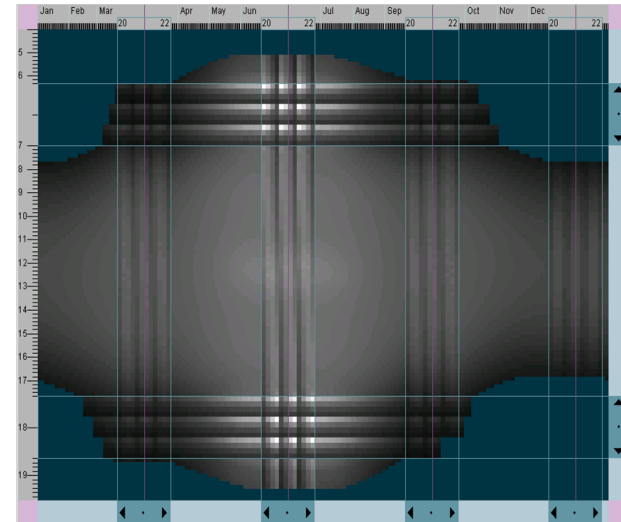
Glaser, 1999 Space Series

Utility

South Facing Glazing

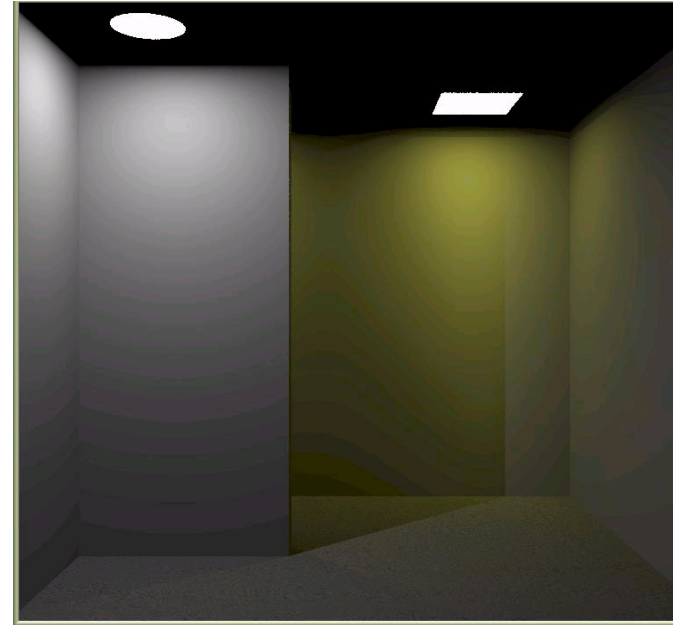
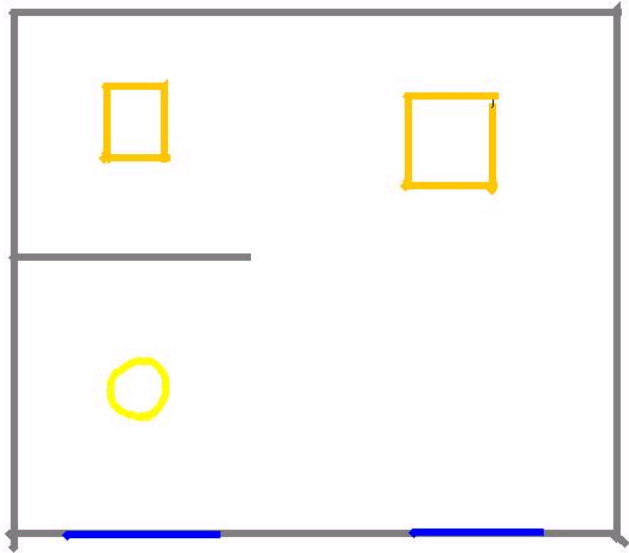


North Facing Glazing



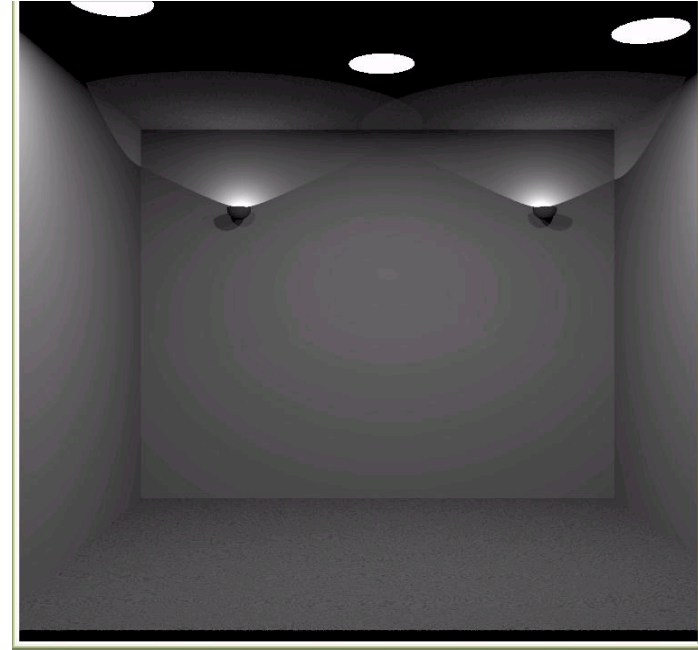
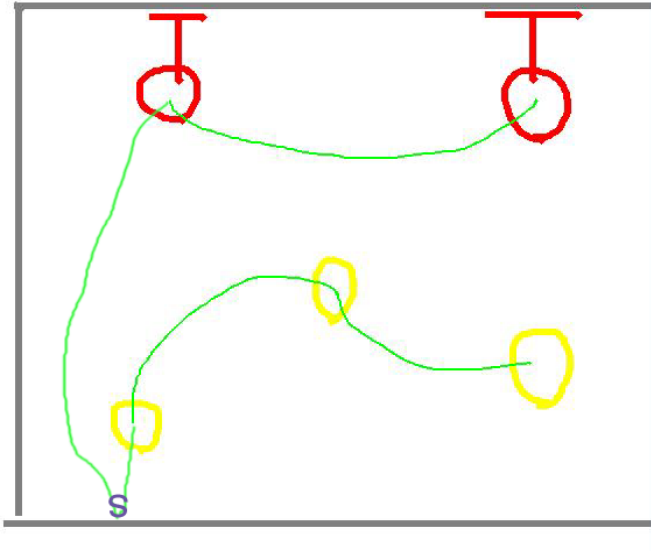
Glaser, 1999 Space Series

Sketching as Interface



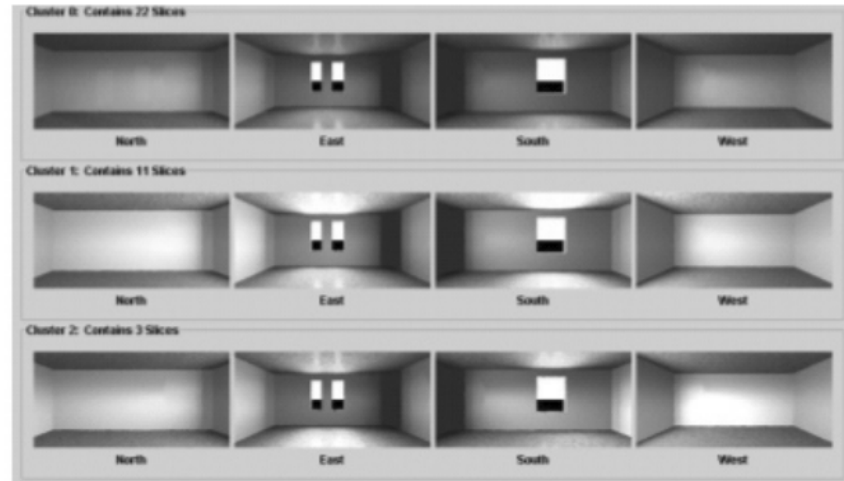
Glaser et al., 2003 LightSketch

Lighting Vocabulary



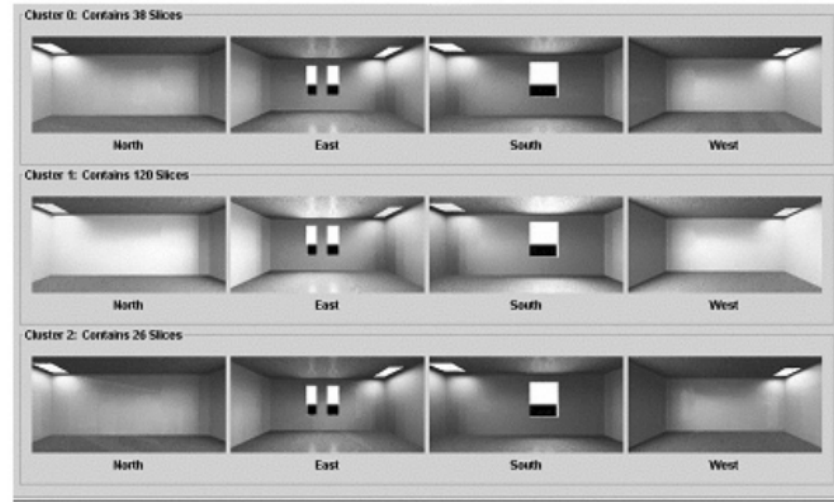
Glaser et al., 2003 LightSketch

Clustering Results



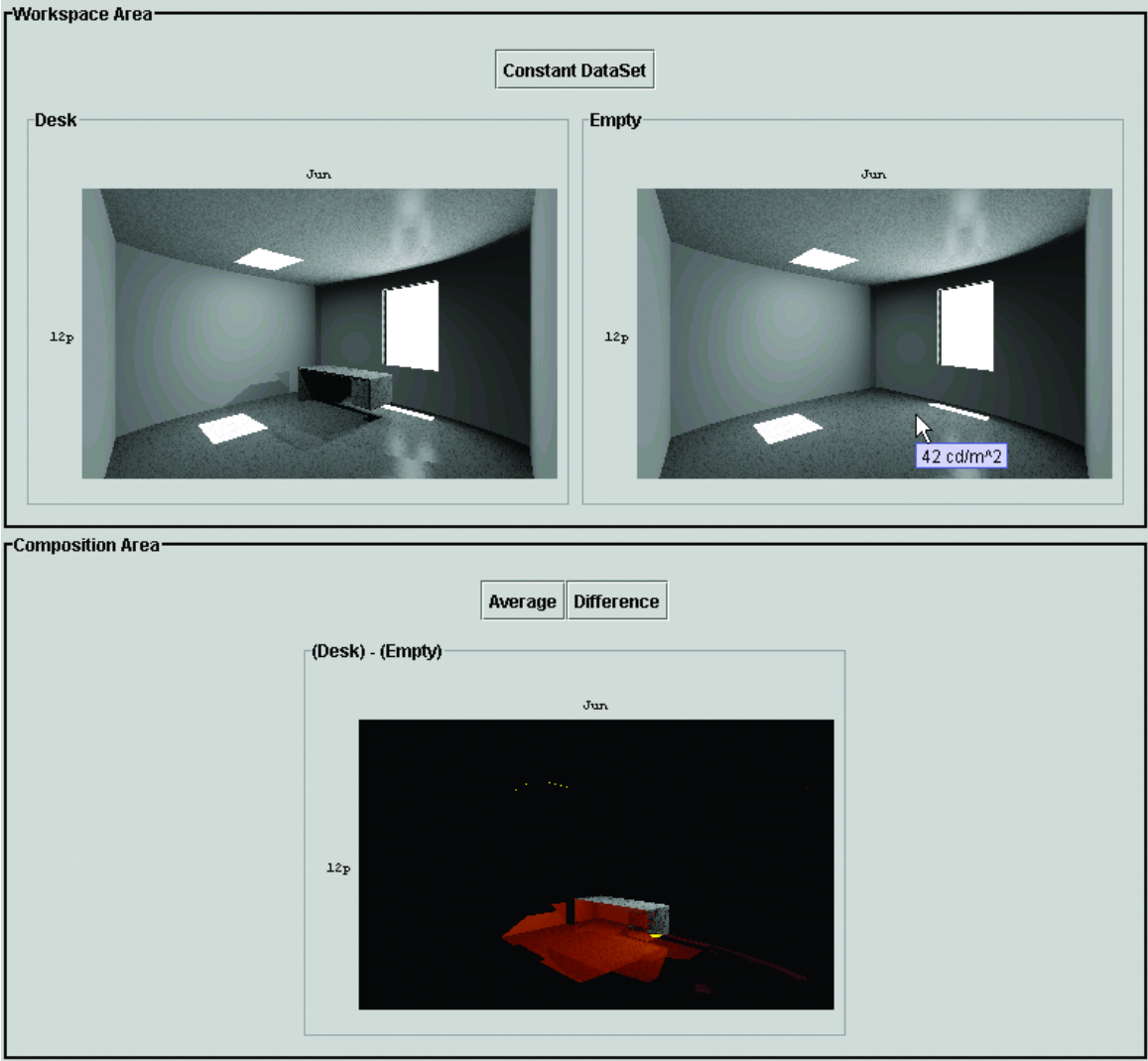
Glaser et al. 2003, LiQuID

K-Means Meaningful?



Glaser et al. 2003, LiQuID

Visual Language



Recent Field Work

How are people using Radiance?

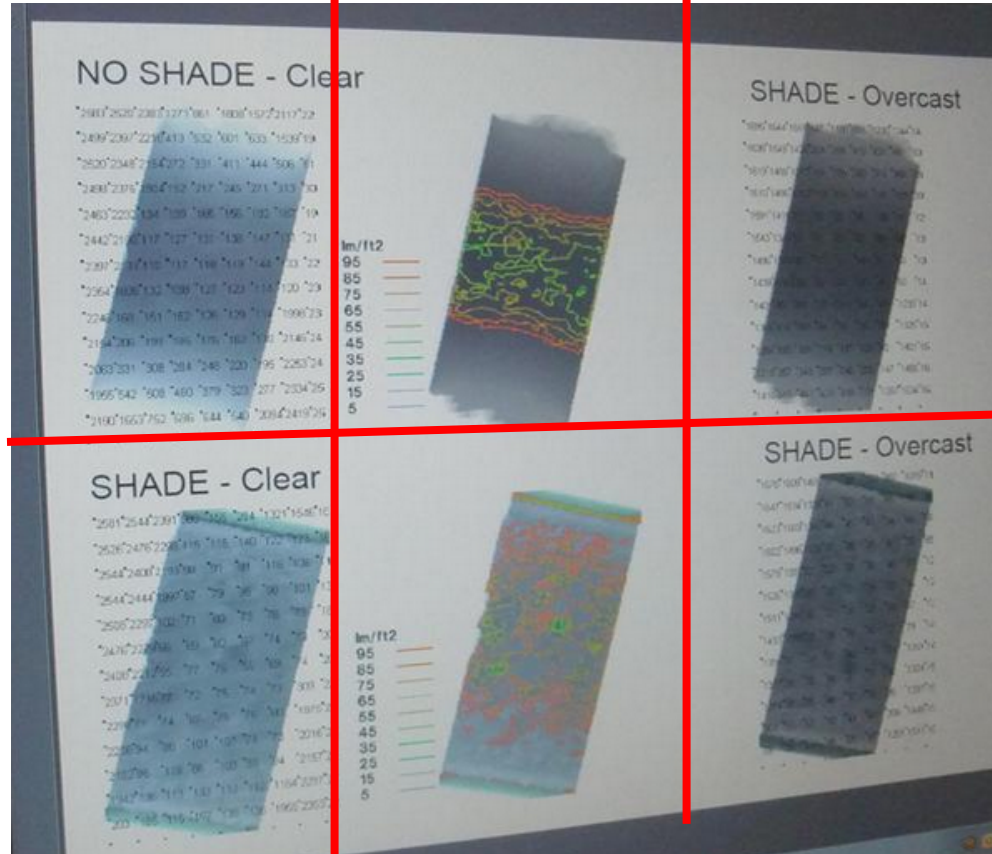
Baseline Practices

Clear

Overcast

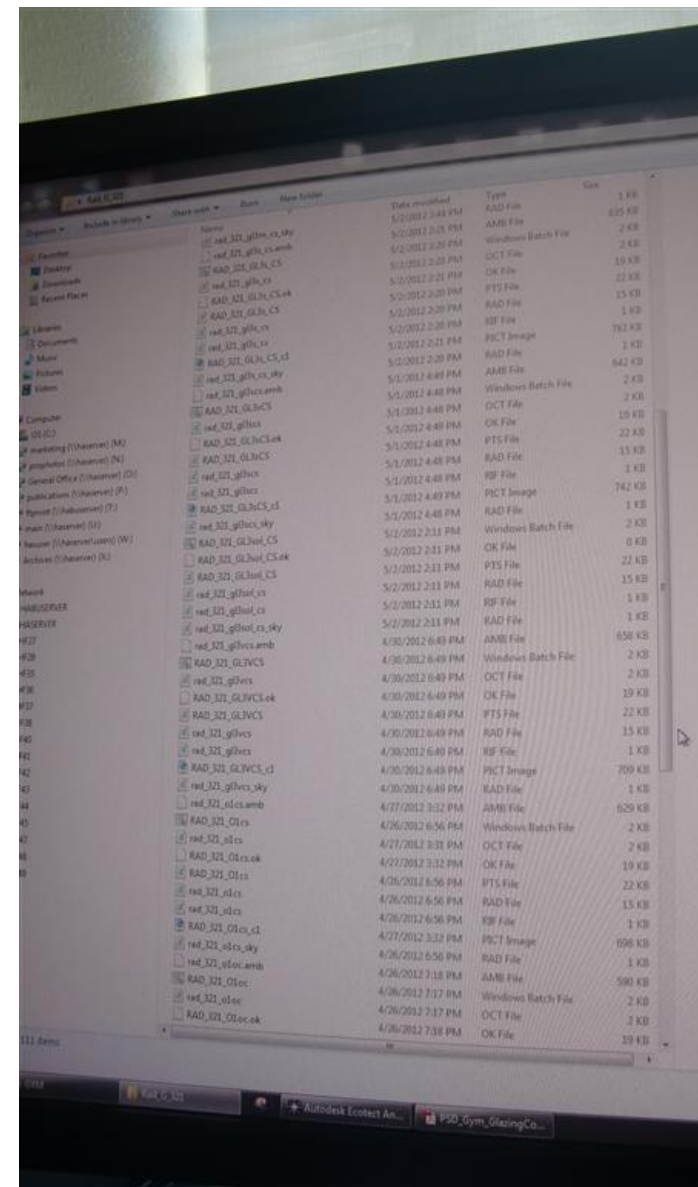
No Shade

Shade



Baseline Practices

“I Never Reuse Saved Data”



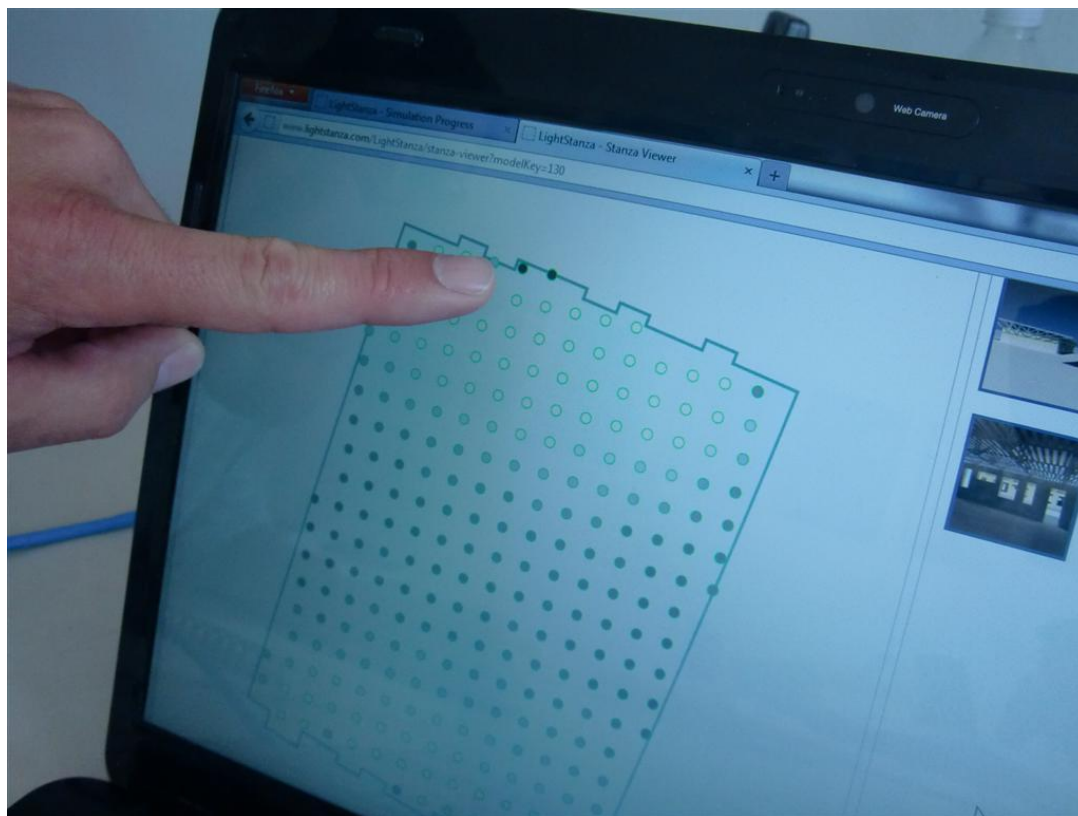
Collaborative Design





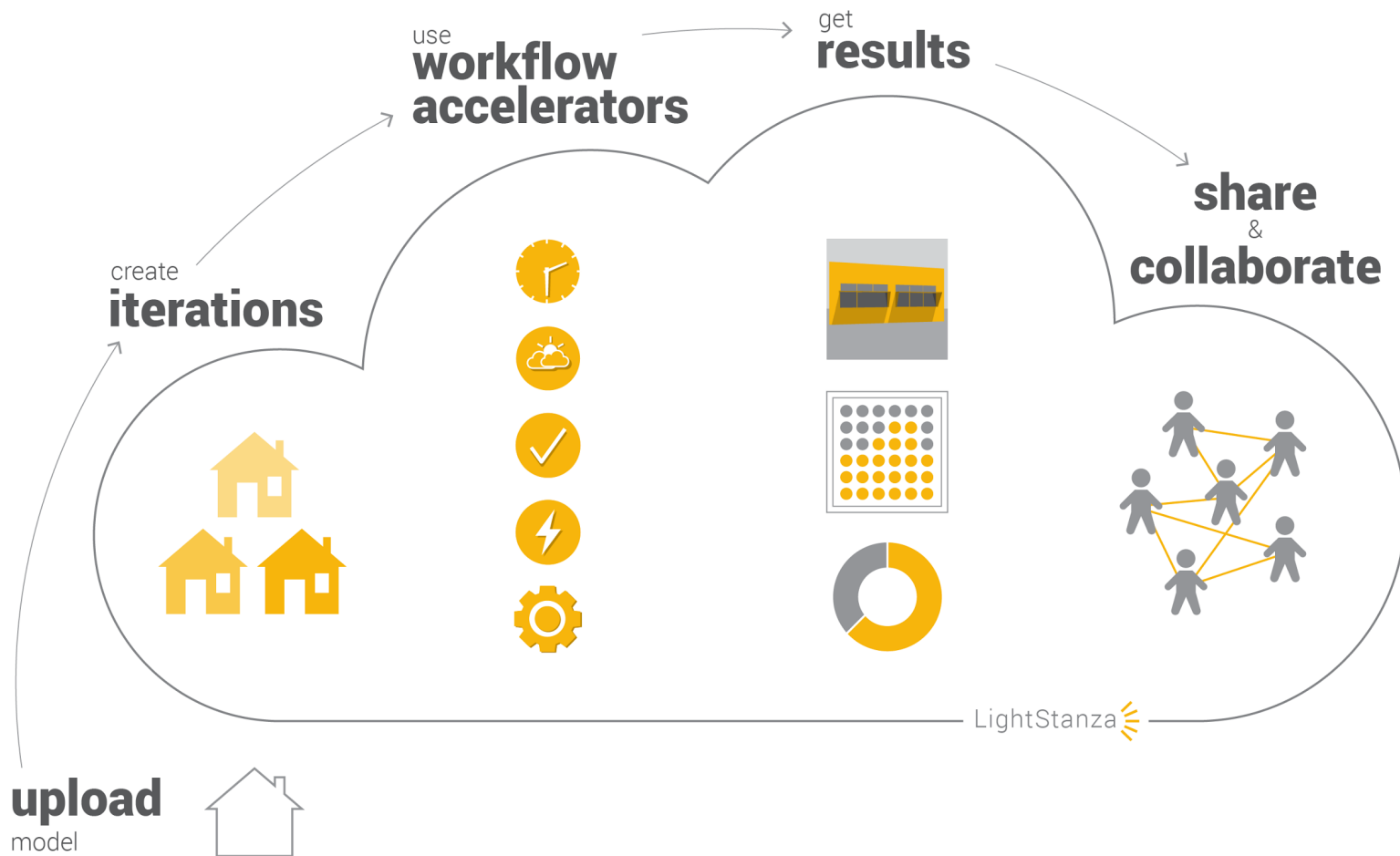


Initial Deployments





LightStanza





Sign In

Conclusions

- Lighting data is complex
- Iterate on representations
- Co-design with users
- Streamline tools to fit language of users

Questions?

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