

Toward Evaluating Lighting Design Interface Paradigms for Novice Users

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Questionnaires Given to Subjects

Digital Lighting Design Paradigm Study

Preliminary Questionnaire

You may choose to not answer any or all questions.

Please rate your previous experience with light editing in 3D computer graphics.

- (1) No experience
- (2) Have tinkered with it
- (3) Have worked on a project
- (4) Have worked on more than one project
- (5) Work as a professional

Please rate you previous experience with real-world studio lighting on a scale from 1 to 5.

- (1) No experience
- (2) Have tinkered with it
- (3) Have worked on a project
- (4) Have worked on more than one project
- (5) Work as a professional

Digital Lighting Design Paradigm Study

Direct Interface Questionnaire

Please answer the following questions and elaborate where possible.

1. Were you able to identify which light sources needed to be adjusted in order to make your intended changes? How did you decide which ones to adjust?

2. Once you identified what to adjust, could you determine what adjustments to make (e.g., changing light position or direction) and by how much? Why or why not?

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3. Were you able to carry out the intended adjustment? What aspects of the interface made this easier or more difficult?

4. Did you notice a difference in how you worked as the matching trials became more complex?

5. Did your experience with this interface differ between the matching trials and the open-ended trials?

Digital Lighting Design Paradigm Study

Indirect Interface Questionnaire

Please answer the following questions and elaborate where possible.

1. Were you able to identify the illumination features (e.g., shadows and highlights) that needed adjustment in order to make your intended changes? How did you decide which ones to adjust?

2. Once you identified what to adjust, could you determine what adjustments to make (e.g., changing shadow position or size) and by how much? Why or why not?

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3. Were you able to carry out the intended adjustment? What aspects of the interface made this easier or more difficult?

4. Did you notice a difference in how you worked as the matching trials became more complex?

5. Did your experience with this interface differ between the matching trials and the open-ended trials?

Digital Lighting Design Paradigm Study

Paint Interface (All Lights)

Questionnaire

Please answer the following questions and elaborate where possible.

1. Were you able to identify the areas of the scene that needed adjustment in order to make your intended changes? How did you decide which ones to adjust?

2. Once you identified what to adjust, could you determine what adjustments to make (e.g., changing brightness of a region) and by how much? Why or why not?

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3. Were you able to carry out the intended adjustment? What aspects of the interface made this easier or more difficult?

4. Did you notice a difference in how you worked as the matching trials became more complex?

5. Did your experience with this interface differ between the matching trials and the open-ended trials?

Digital Lighting Design Paradigm Study

Paint Interface (Single Light)

Questionnaire

Please answer the following questions and elaborate where possible.

1. Were you able to identify the light sources that needed adjustment in order to make your intended changes? How did you decide which ones to adjust?

2. Once you identified what to adjust, could you determine what adjustments to make (e.g., changing brightness of a region) and by how much? Why or why not?

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3. Were you able to carry out the intended adjustment? What aspects of the interface made this easier or more difficult?

4. Did you notice a difference in how you worked as the matching trials became more complex?

5. Did your experience with this interface differ between the matching trials and the open-ended trials?

Digital Lighting Design Paradigm Study

Final Questionnaire

Please rate and rank the interfaces in each of the following areas.

1) Interface is a natural way to think about light editing:

How does each interface rate on a scale of 1 to 5?

(1 implies does not feel natural. 5 implies feels natural.)

Direct Interface: 1 2 3 4 5

Indirect Interface: 1 2 3 4 5

Paint Interface (All Lights): 1 2 3 4 5

Paint Interface (Single Light): 1 2 3 4 5

If forced to choose, which interface would be ranked 1st, 2nd, 3rd, and 4th?

1st most natural: _____

2nd most natural: _____

3rd most natural: _____

4th most natural: _____

2) I can identify what to adjust (lights, features, image areas):

How does each interface rate on a scale of 1 to 5?

(1 implies identification is difficult. 5 implies not difficult.)

Direct Interface: 1 2 3 4 5

Indirect Interface: 1 2 3 4 5

Paint Interface (All Lights): 1 2 3 4 5

Paint Interface (Single Light): 1 2 3 4 5

If forced to choose, which interface would be ranked 1st, 2nd, 3rd, and 4th?

1st easiest to identify: _____

2nd easiest to identify: _____

3rd easiest to identify: _____

4th easiest to identify: _____

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3) I can determine what adjustment to make:

How does each interface rate on a scale of 1 to 5?

(1 implies difficult to determine adjustment. 5 implies not difficult.)

Direct Interface: 1 2 3 4 5

Indirect Interface: 1 2 3 4 5

Paint Interface (All Lights): 1 2 3 4 5

Paint Interface (Single Light): 1 2 3 4 5

If forced to choose, which interface would be ranked 1st, 2nd, 3rd, and 4th?

1st easiest to determine: _____

2nd easiest to determine: _____

3rd easiest to determine: _____

4th easiest to determine: _____

4) I can carry out my intended adjustments:

How does each interface rate on a scale of 1 to 5?

(1 implies difficult to carry out adjustment. 5 implies not difficult.)

Direct Interface: 1 2 3 4 5

Indirect Interface: 1 2 3 4 5

Paint Interface (All Lights): 1 2 3 4 5

Paint Interface (Single Light): 1 2 3 4 5

If forced to choose, which interface would be ranked 1st, 2nd, 3rd, and 4th?

1st easiest to carry out: _____

2nd easiest to carry out: _____

3rd easiest to carry out: _____

4th easiest to carry out: _____

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5) Your preference for working with small groups of lights:

How does each interface rate on a scale of 1 to 5?

(1 implies do not prefer. 5 implies prefer.)

Direct Interface: 1 2 3 4 5

Indirect Interface: 1 2 3 4 5

Paint Interface (All Lights): 1 2 3 4 5

Paint Interface (Single Light): 1 2 3 4 5

If forced to choose, which interface would be ranked 1st, 2nd, 3rd, and 4th?

1st preference: _____

2nd preference: _____

3rd preference: _____

4th preference: _____

6) Your preference for working with large groups of lights:

How does each interface rate on a scale of 1 to 5?

(1 implies do not prefer. 5 implies prefer.)

Direct Interface: 1 2 3 4 5

Indirect Interface: 1 2 3 4 5

Paint Interface (All Lights): 1 2 3 4 5

Paint Interface (Single Light): 1 2 3 4 5

If forced to choose, which interface would be ranked 1st, 2nd, 3rd, and 4th?

1st preference: _____

2nd preference: _____

3rd preference: _____

4th preference: _____

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7) Your preference for working on matching trials:

How does each interface rate on a scale of 1 to 5?

(1 implies do not prefer. 5 implies prefer.)

Direct Interface: 1 2 3 4 5

Indirect Interface: 1 2 3 4 5

Paint Interface (All Lights): 1 2 3 4 5

Paint Interface (Single Light): 1 2 3 4 5

If forced to choose, which interface would be ranked 1st, 2nd, 3rd, and 4th?

1st preference: _____

2nd preference: _____

3rd preference: _____

4th preference: _____

8) Your preference for working on open-ended trials:

How does each interface rate on a scale of 1 to 5?

(1 implies do not prefer. 5 implies prefer.)

Direct Interface: 1 2 3 4 5

Indirect Interface: 1 2 3 4 5

Paint Interface (All Lights): 1 2 3 4 5

Paint Interface (Single Light): 1 2 3 4 5

If forced to choose, which interface would be ranked 1st, 2nd, 3rd, and 4th?

1st preference: _____

2nd preference: _____

3rd preference: _____

4th preference: _____

9) Your overall preference:

How does each interface rate on a scale of 1 to 5?

(1 implies do not prefer. 5 implies prefer.)

Direct Interface: 1 2 3 4 5

Indirect Interface: 1 2 3 4 5

Paint Interface (All Lights): 1 2 3 4 5

Paint Interface (Single Light): 1 2 3 4 5

If forced to choose, which interface would be ranked 1st, 2nd, 3rd, and 4th?

1st preference: _____

2nd preference: _____

3rd preference: _____

4th preference: _____