2.3 Sketch Problem 2: Drawing on Both Sides of the Brain

CS 5984
Design of Interactive Devices
January 28, 2005

Steve Harrison
Why are scientific illustrations drawings and not photos?

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Why are scientific illustrations drawings and not photos?

ABSTRACTION!
Representation

☐ Communicating with others (Presentation)
☐ Thinking tools (Sketching)
 Seeing and Drawing

☐ Please draw the door to this room
### Seeing and Drawing

<table>
<thead>
<tr>
<th><strong>Left Brain:</strong></th>
<th><strong>Right Brain:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>symbolic</td>
<td>camera-like</td>
</tr>
<tr>
<td>verbal</td>
<td>nonverbal</td>
</tr>
<tr>
<td>analytic</td>
<td>synthetic</td>
</tr>
<tr>
<td>abstract</td>
<td>analogic</td>
</tr>
<tr>
<td>temporal</td>
<td>nontemporal</td>
</tr>
<tr>
<td>rational</td>
<td>intuitive</td>
</tr>
<tr>
<td>numeric</td>
<td>spatial</td>
</tr>
</tbody>
</table>

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Seeing and Drawing

Left Brain: symbolic

Right Brain: camera-like

Designing depends on seeing both ways

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Left-Side Exercise

☐ Draw this object
☐ show its use
Left-side hints....

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Right-Side

☐ Five Perceptual skills:
- edges
- spaces
- relationships
- light/shadow
- gestalt

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Right-Side Exercise (1)
Right-Side Exercise (2)

☐ Draw this object

☐ show the details of its appearance
Hey -- I thought This Was a CS Class?

☐ So it is.

☐ Abstraction and objectification are two components of current CS

☐ How do the two modes of seeing interact with abstraction and objectification?
take home sketch: **Looking at Sites (and seeing problems)**

- 4 drawings:
  - 2 left-brain (cartoon or other representation of process)
  - 2 right-brain (appearance)
- Must show important detail
- Pick candidate site(s) for team project

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take home sketch: Site and Problem-finding: PLACES

- A doorway to the outside (as seen from the inside) from the second floor of McBryde
- The bus stop with the shelter on Stanger diagonally opposite McBryde
- The study lounge on the first floor of Togersen
- The "bridge" study area between the Library and Torgersen
- The corner of College and Main Street
- Walking or bicycling along the Huckleberry trail (as seen from the walker/cyclist perspective)
- Waiting in your dentist's waiting room
Coming Attractions

☐ For Monday: read DG Chapter 2

☐ Al and Leo prepare summary, quote or idea, and discussion questions

☐ For Wednesday: form groups!

☐ use forum as recruiting / organizing tool

☐ For Friday: SKetch Problem 2 due

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