

INTERACTIVE SELECTION



Area: Human Centered Computing
Supervisor: Prof Tom Gedeon

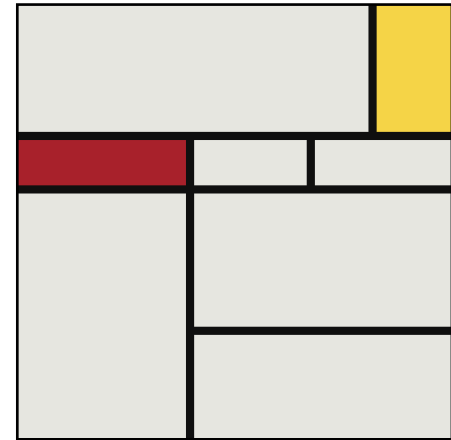
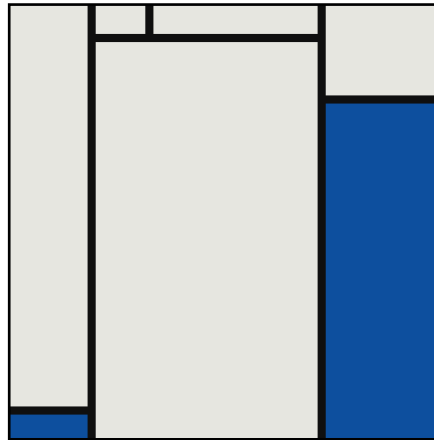
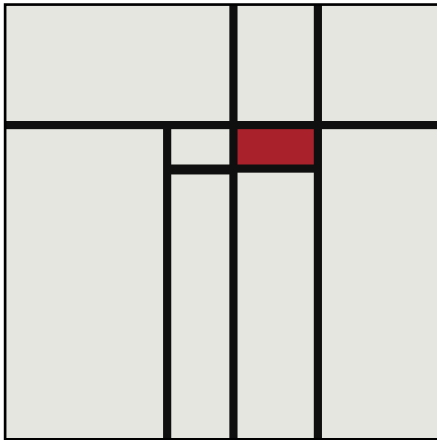


BACKGROUND

- **Same selection task but different approaches**
- Selection task:
 - Selection of pictures that user likes
 - Picture – style of Piet Mondrian (Mondrian)
- Different approaches:
 - Driving Interface
 - Mouse Interface



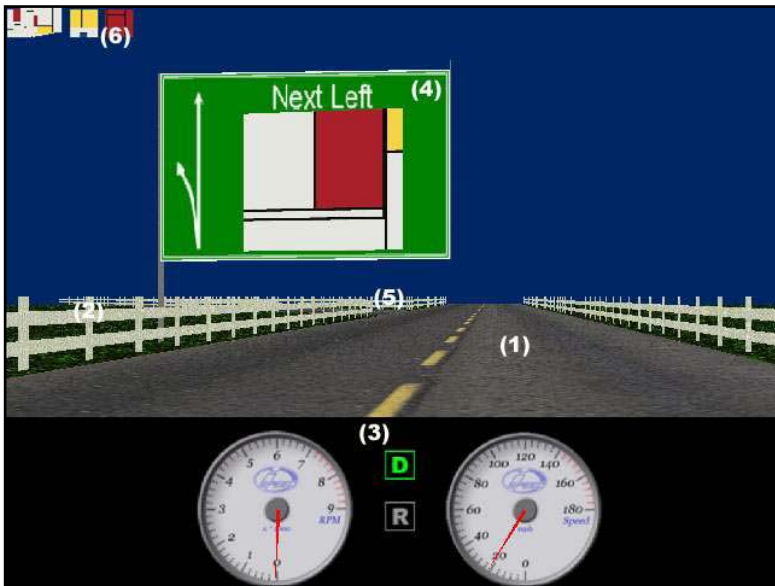
SELECTION TASK



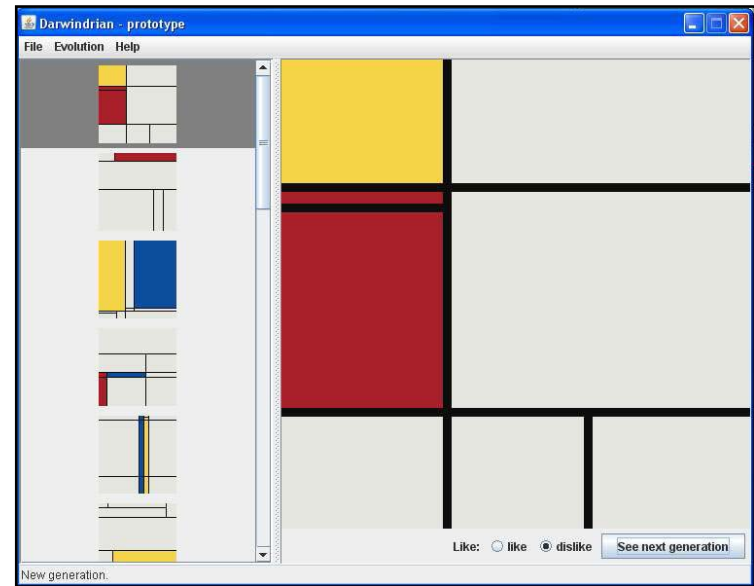
Examples of Mondrian

NOTE: Continued project as the previous showed some flaws

DIFFERENT APPROACHES



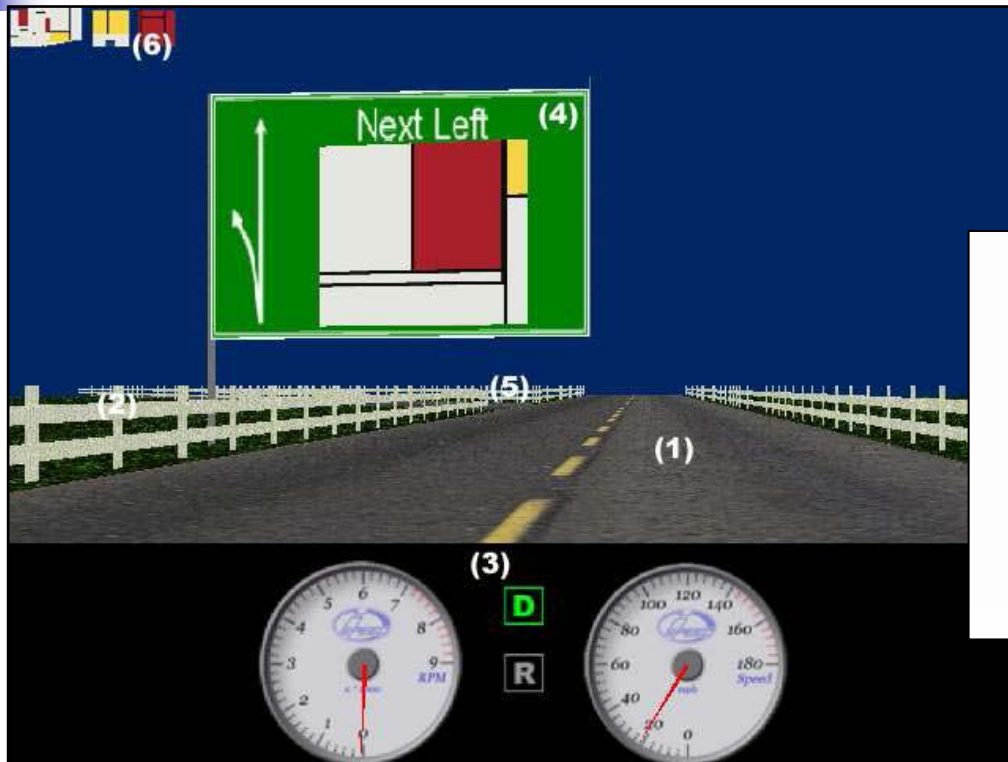
Driving Interface



Mouse Interface

NOTE: Continued project as the previous showed some flaws

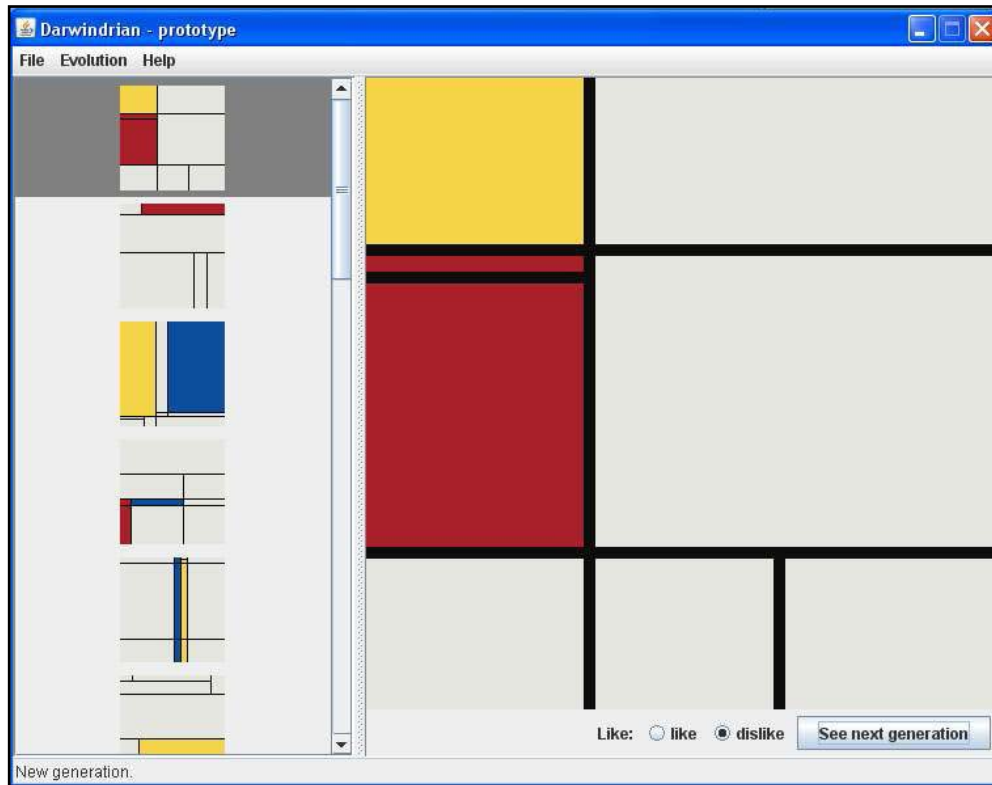
DIFFERENT APPROACHES



Driving Interface

NOTE: Continued project as the previous showed some flaws

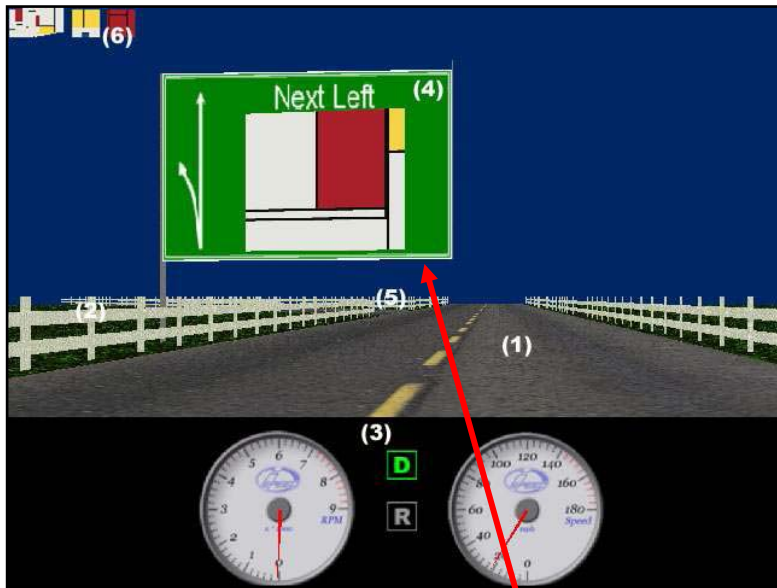
DIFFERENT APPROACHES



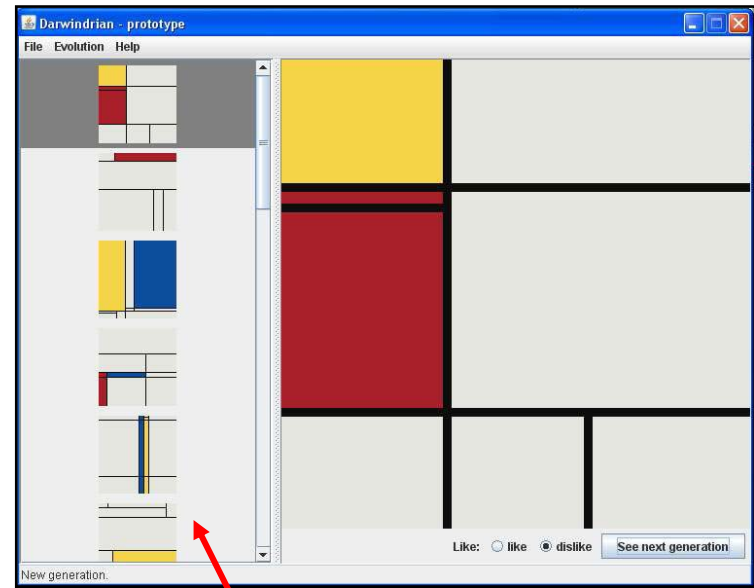
Mouse Interface

NOTE: Continued project as the previous showed some flaws

MAIN FLAW IN PREVIOUS DESIGN



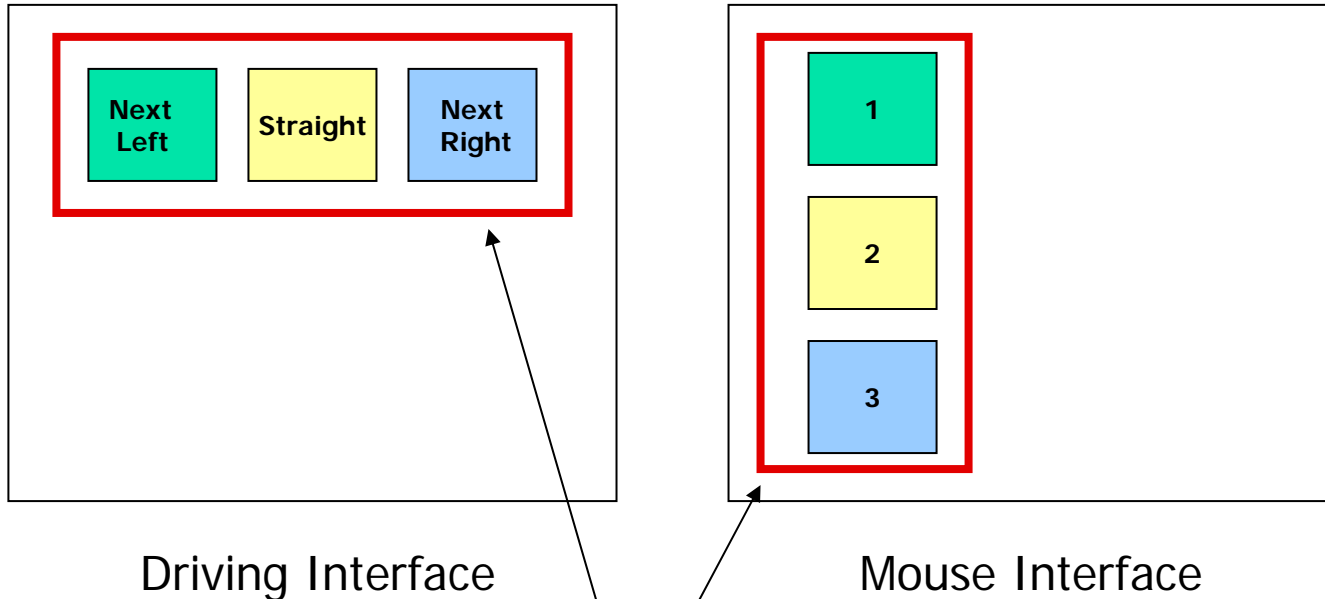
Driving Interface:
Displays **one Mondrian**
at one time



Mouse Interface:
Displays **multiple (20)**
Mondrians at one time



SUGGESTED DESIGN



Displays **same amount (3) of Mondrians** at one time



ANALYSIS

- **Comparison** between two approaches:
 - **Intuitive**
 - **Speed** (When performing the selection)
- **Two type of experiments:**
 - Display **same amount of Mondrians** for both approaches
 - Display **different amount of Mondrians** for both approaches

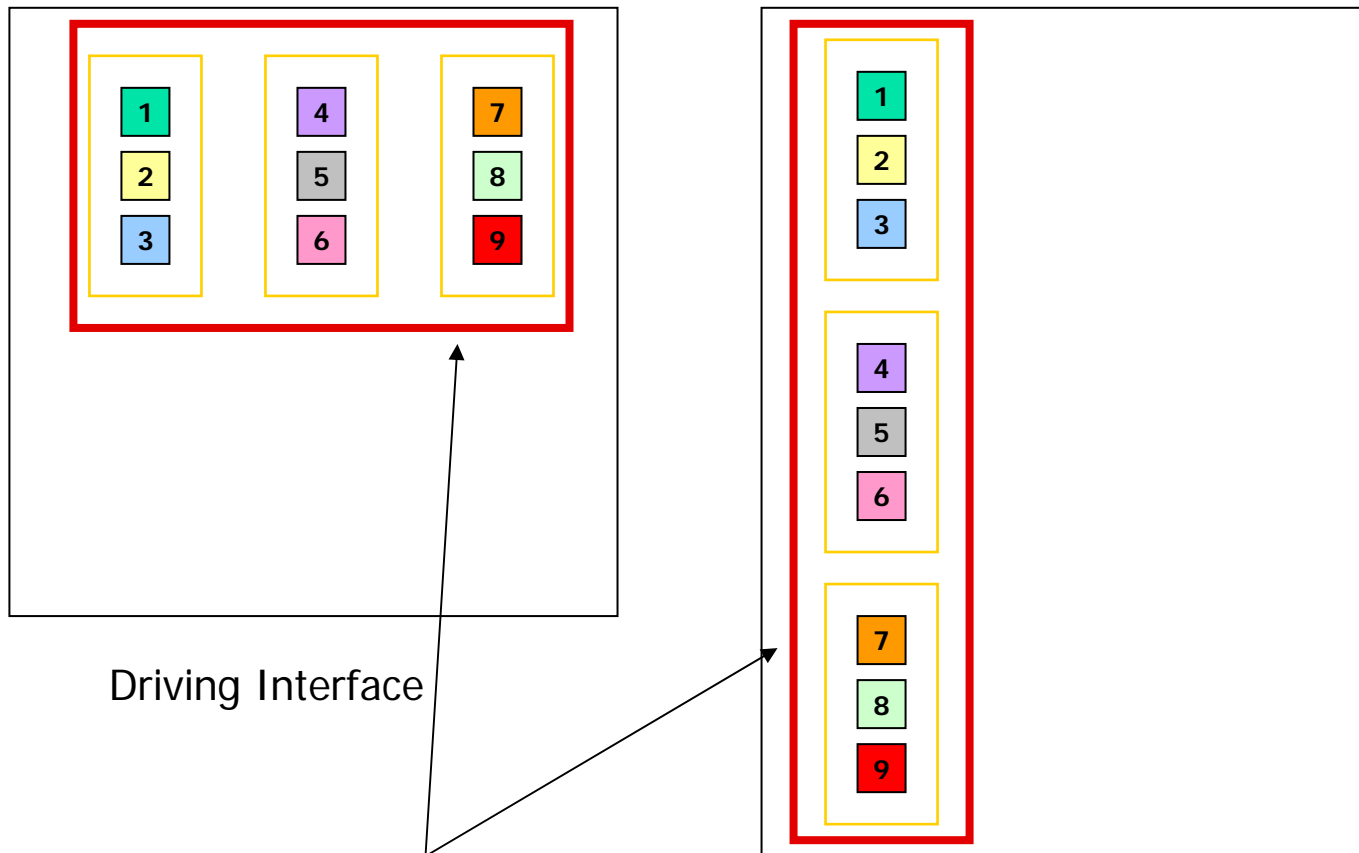


EXPERIMENT DESIGN

| Experiment No. | Mondrian(s) Displayed At One Time | | Subjects |
|----------------|-----------------------------------|------------------|----------|
| | Driving Interface | Mouse Interface | |
| 1 | 3 | 3 | 6 |
| 2 | 1 (Previous) | 3 | 6 |
| 3 | 3 | 20 (Previous) | 6 |
| 4 | 9 | 9 | 6 |

Total amount of Subjects = 24 students

DESIGN OF EXPERIMENT NO. 4



Driving Interface

Mouse Interface

Displays **9 Mondrians**
(**3 Mondrians/group**) at one time