











## Our Evaluation Approach (Cont'd)

### Model a user panel

All of the iconic and digital information are extracted to a table that includes name, important level, shape, size, color, position, status, and value of every graphic item.

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# Evaluation Experiments (Cont'd) Evaluation scenarios Build HCI model for an objective graphic panel, and divide the graphic items into two groups—common and important process variables. Scan throughout the panel with different perceptual attention level and record the visual strength of every graphic item. Integrate the above evaluation results and find the weak points of the graphic panels and their causes.









## Evaluation Experiments (Cont'd) Evaluation results: Density is proper—no visual field can hold more than 17 items. The important items in panel 2 are not given suitable emphasis. There are 20 and 3 weak items in panel 1 and 2 respectively. The average visual strengths of both panel 1 and 2 are proper.







## Future Work (Cont'd)

### The characteristics of human eye movement.

- Try to focus on graphic items.
- Fixation point is moved based on the understanding of user panel.
- Fixation time is decided by the complexity of graphic items within a visual field.

### A problem of the former simulation:

The actual trajectory is not a zigzag line as the assumption in the former simulation run. Accordingly, the fixation points in simulation are different to the real case. Such difference affects the position factor in the calculation of visual strength.

## Future Work (Cont'd)

Simulation program based on the human subject's eye movement



