



INTRODUCTION

assembling 3D Encyclopedia for Education

helping people who get trouble to study structure

HIGH FIDELITY PROTOTYPE

Leap motion Unity

processing the study for
assembling parts of dinosaur.

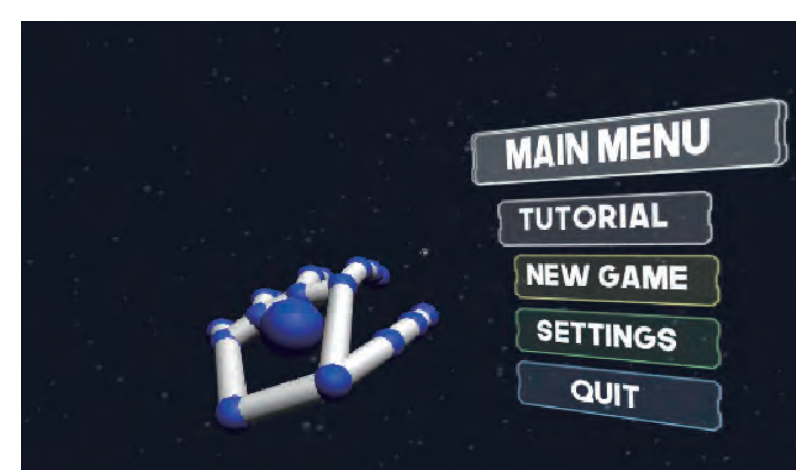


Figure 1.
Main menu of REAL-DICT



Figure 2.
Assembling of dinosaur pieces

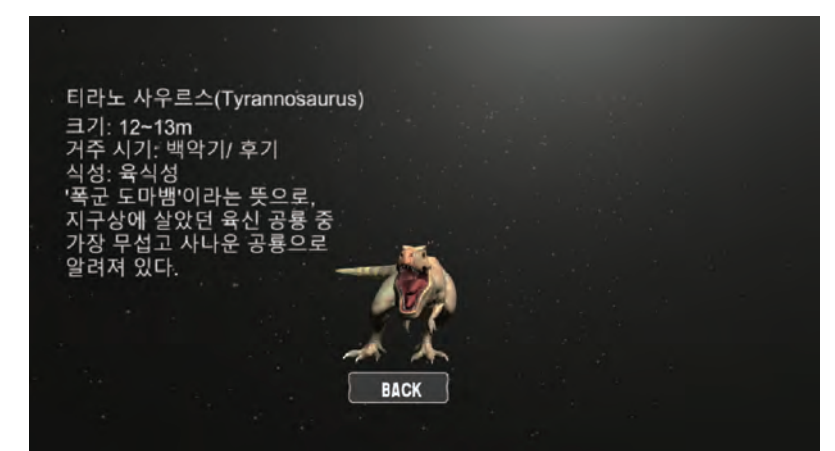


Figure 3.
animation and explanation

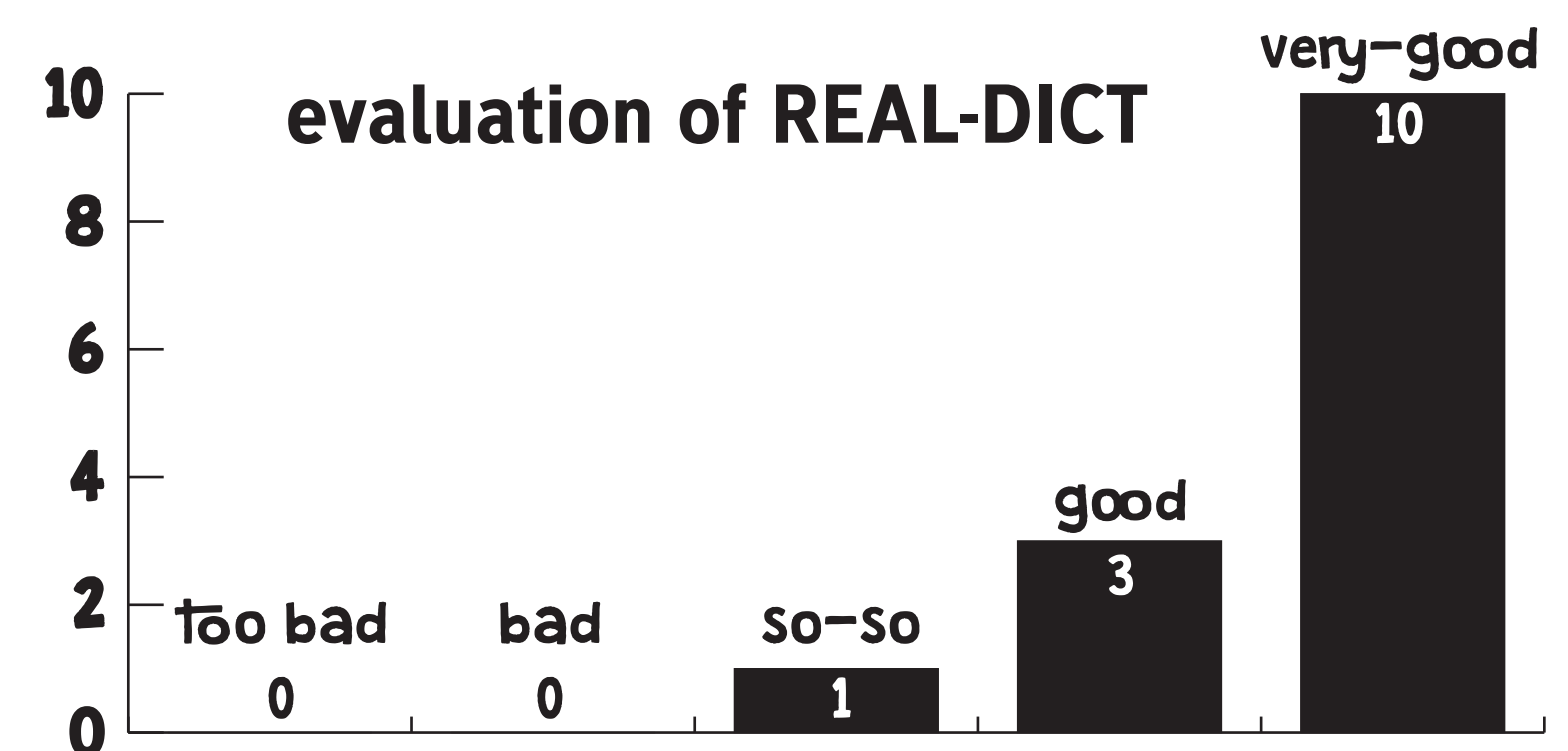
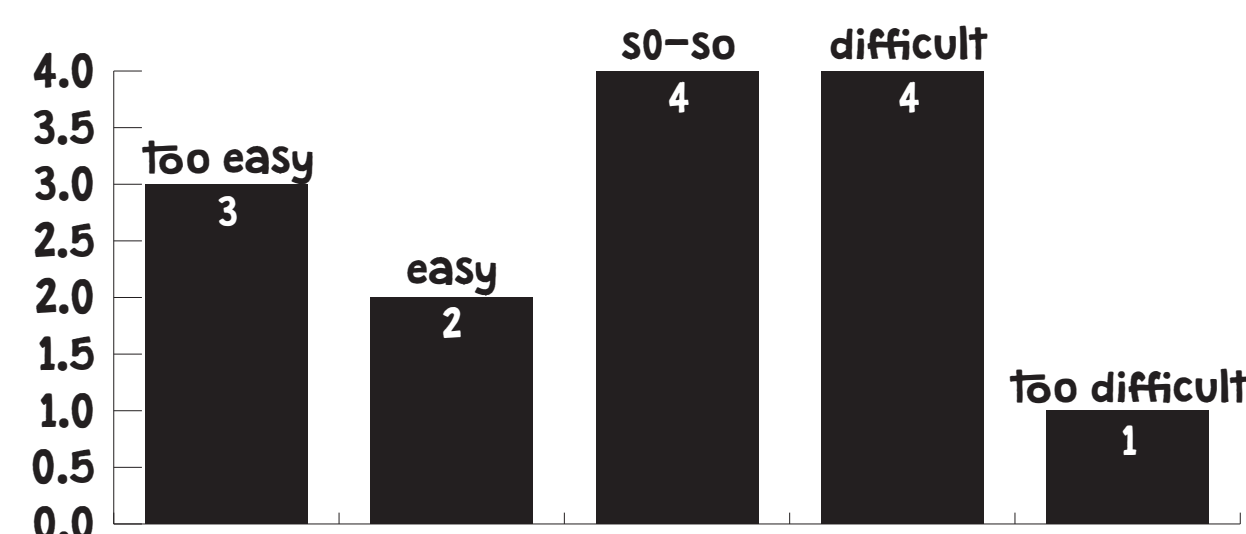
USER TEST

The questionnaire was conducted to research the effectiveness of learning, interest, difficulty and development fields.

Do you think the program
will help learning?



Is the difficulty of assembly appropriate?



CONCLUSION

Reality Interesting learning High understanding Enhancing concentration
Degree of difficulty Time shift Distance adjustment Diversification of methods



We could conclude that 3D models and assemblies
can interest of children who are not interested in studying.

LIMITATION

Camera Moving

- Lack of assembly while observing samples from multiple angles

Lack of samples

- Difficulty finding samples in different fields

Insufficient detailed settings

- menu expansion is required, such as tutorials, settings.

FUTURE GOAL

Expansion of device

: 3D printer, looking glass, VR

Expansion of fields

- Medicine : surgery, medical education
- Military : assembling the weapon
- Architecture : interior, modeling
- Engineering: assemble and disassemble the machine