

# VIRTUAL RADIOGRAPHY

**Students have difficulties understanding and learning radiographic projection geometry. Using VRlabs simulator, students can train radiographic examinations – without exposing themselves and others to ionising radiation.**

The hypothesis is that training in a simulator will improve the understanding of:

- how a 3D object is projected on a 2D plane as a radiograph, and inversely
- how a 2D radiographic image represents a 3D object

## 1. Radiographic simulations

- Model, X-ray source, detector
- Hardware based volume rendering

## 2. User interface

- 6D motion tracking
- stereo display

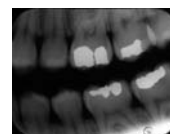
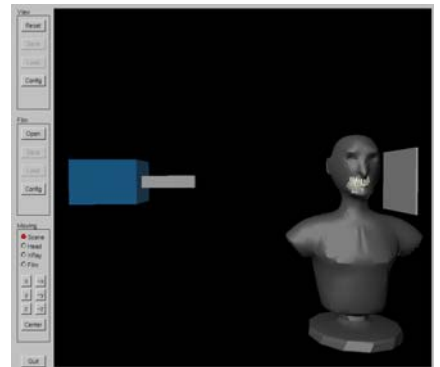
## 3. Educational tool

- Case and problem based
- Feedback and self-evaluation.

## 4. Evaluation

- Evaluation of the simulator with test groups of students
- Pedagogical effect and usability

The project is currently in it's evaluation phase and results from experiments are evaluated and will be published.



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