

ViewDEX - Viewer for Digital Evaluation of X-ray images - Microsoft Internet Explorer

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<http://helios.ifss.gu.se/viewdex/>

ViewDEX - A Java-based software for presentation and evaluation of medical images in observer performance studies

Background
The development of ViewDEX (Viewer for Digital Evaluation of X-ray images) has its origin in the need for an efficient DICOM-compatible viewer dedicated to observer performance studies. It has been developed with both imaging research and clinical optimization studies in mind. Efforts have been made to make the study setup, image presentation and image evaluation as non-restricted as possible.

ViewDEX 1.0: Specifications
Supports ROC and visual grading studies. Can also be used for AFC experiments.
Free for non-commercial use.
No installation required. Can run directly from hard drive, CD or USB.
Display functionality: window settings, zoom, interpolation type, pan
Fully user configurable: tasks/questions, answer alternatives, no. of observers, no. of studies, image database location etc.
Log data: Given ratings, used time, window settings, image read order, image name, DICOM element values
Programs and development environment: Java Platform Standard Edition 6, Java Advanced Imaging, Java 2D, dcm4che, Netbeans IDE 5.5
DICOM compatible. Supports majority of medical images conforming to DICOM part 10.

[Click here to download ViewDEX](#)
Current version: 1.0_03

Examples of studies performed with ViewDEX. Top left: visual grading study with paediatric chest radiographs. Top middle: 4-AFC study with mammograms. Top right: visual grading study with head CT-images. Bottom left: ROC study with chest radiographs. Bottom middle: visual grading study with lumbar spine radiographs. Bottom right: Visual grading study with hand radiographs.