Gesture-based Dicom Image Viewer Control

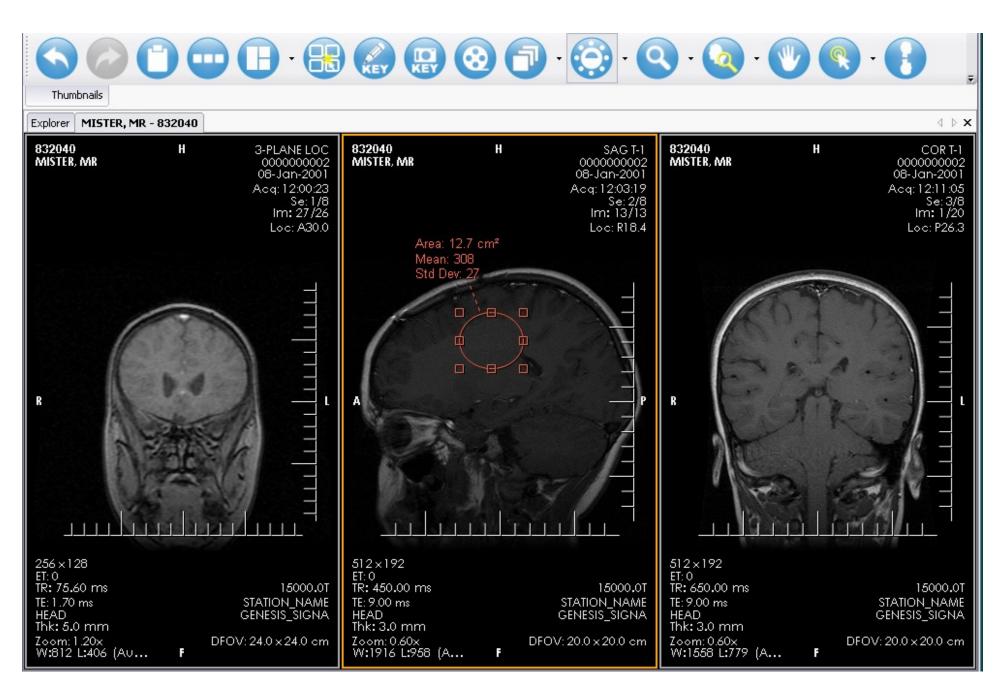
Team

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Dicom Viewer

DICOM (Digital Imaging and Communications in Medicine)

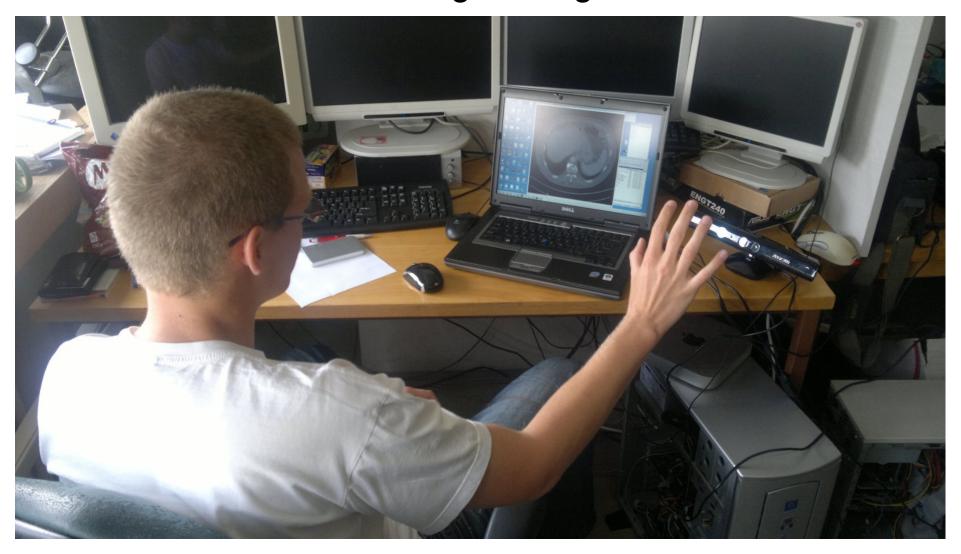
- Standard for storing, printing and transmitting information
- Includes
 - File Format
 - Communication Protocol
- Modalities
 - X-Rays (2D)
 - Computer Tomography (3D)
 - o MRI
 - 0 ...
- Metadata
 - Patient Name
 - Diagnosis



DICOM Viewer

Our Goal

• control DICOM viewer image with gestures



Motivation

- Doctor cannot touch keyboard and mouse
- Keep sterile hands

Motivation

Doctor cannot touch keyboard and mouse



What have we done?

Simple DICOM viewer in Matlab

What have we done?

- Simple DICOM viewer in Matlab
- Tracker
- Gesture classifier
 - Dynamic time warping (DTW)