



# Hands-on: Medical Image Processing

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## **SimpleITK tutorial**

Python library for medical image analysis

## **Loading DICOM series**

`sitk.ReadImage()` and `GetArrayFromImage()`

## **Basic operations**

Filtering, thresholding, morphology

## **Segmentation example**

Region growing and connected components

## **3D visualization**

Integration with matplotlib and VTK