

How CT scans are formed.

How x-rays are formed

What is the difference between Ct-scan and x-ray image.

- CT-Scan machine consist of X-ray and it's detector.
- CT-Scan machine looks like doughnut in shape.
- In which this X-ray and it's detector are placed diametrically opposite.
- Now a person will be sent into this machine.
- this X-ray and detector will be rotating.
- this X-ray emitter send x-rays from different angles and it's detector captures it.
- and a single image looks like a single line with shades of gray.
- shades of gary is formed due to sums of densities in the projection line.
- all the images from a single rotation are taken and processed and forms a axial slice of the body.