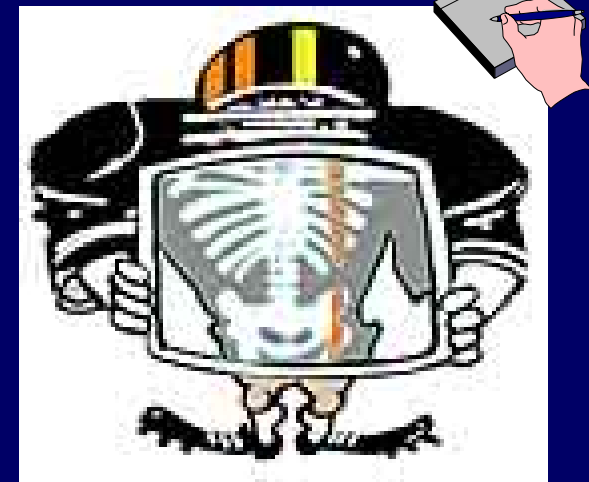


# X-Rays



Photons with energy in approx range **100eV to 100,000eV**.

This large energy means they go right through you (except for your bones).

What are the wavelengths? **.01 nm to 10 nm**

$$\lambda = \frac{hc}{E} = \frac{1240 \text{ eV} \cdot \text{nm}}{E}$$

$$\frac{1240 \text{ eV} \cdot \text{nm}}{100000 \text{ eV}} \approx .01 \text{ nm}$$



$$\frac{1240}{100} \approx 10 \text{ nm}$$