Currents create magnetic fields

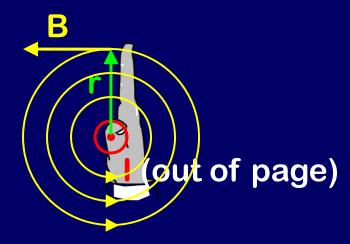
Straight wire carrying current I generates a field B
 at a distance r:

$$B = \frac{\mu_0 I}{2\pi r}$$

$$\mu_0 = 4\pi \times 10^{-7} Tm/A$$
"Permeability of free space"
(similar to ε_0 for electricity)

• "Right-hand rule 2":

- Direction
- Thumb of right hand along I
- Fingers of right hand along r
- Out-of-palm points along B



B field circles wire

Note: there are different versions of RHR