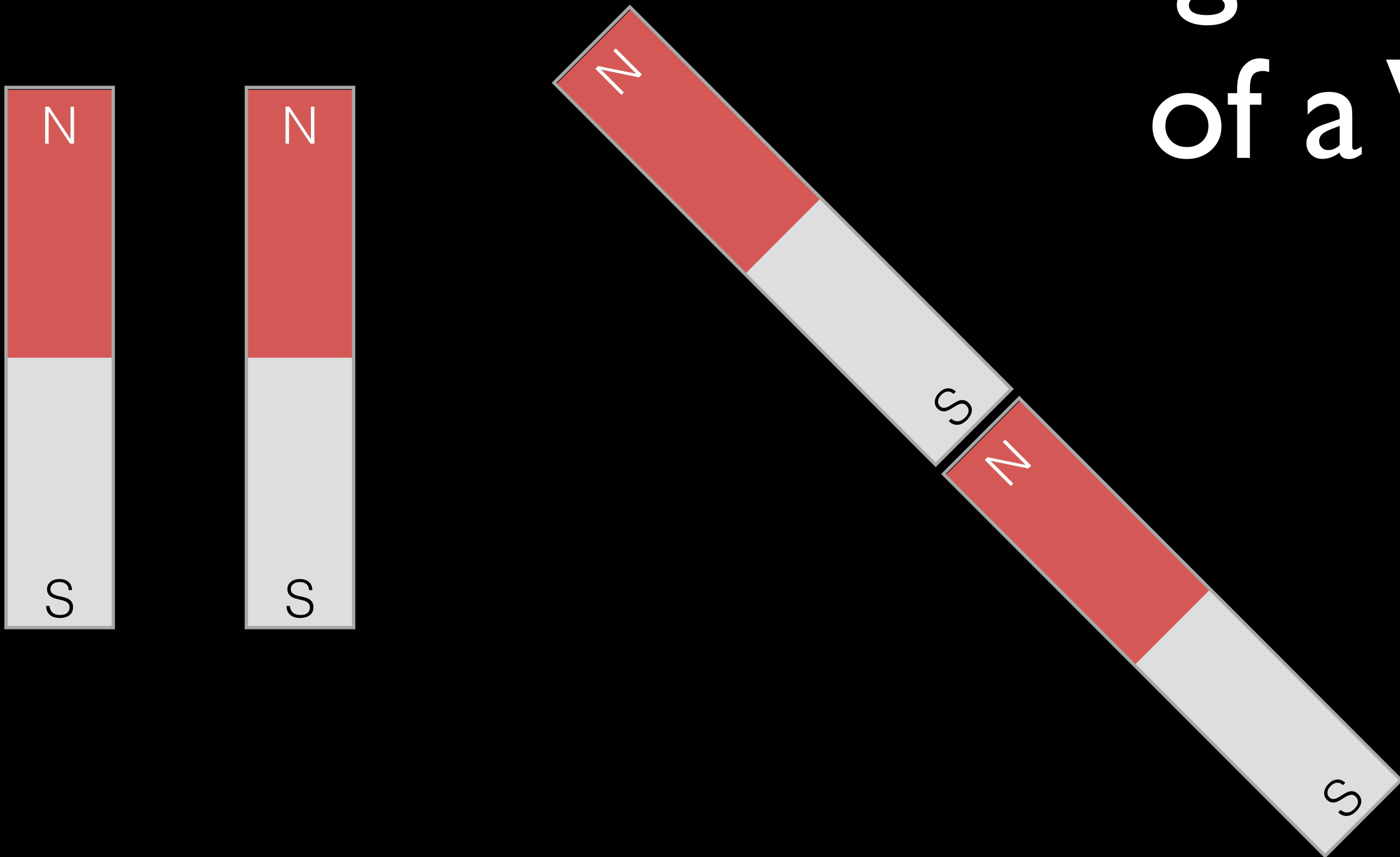


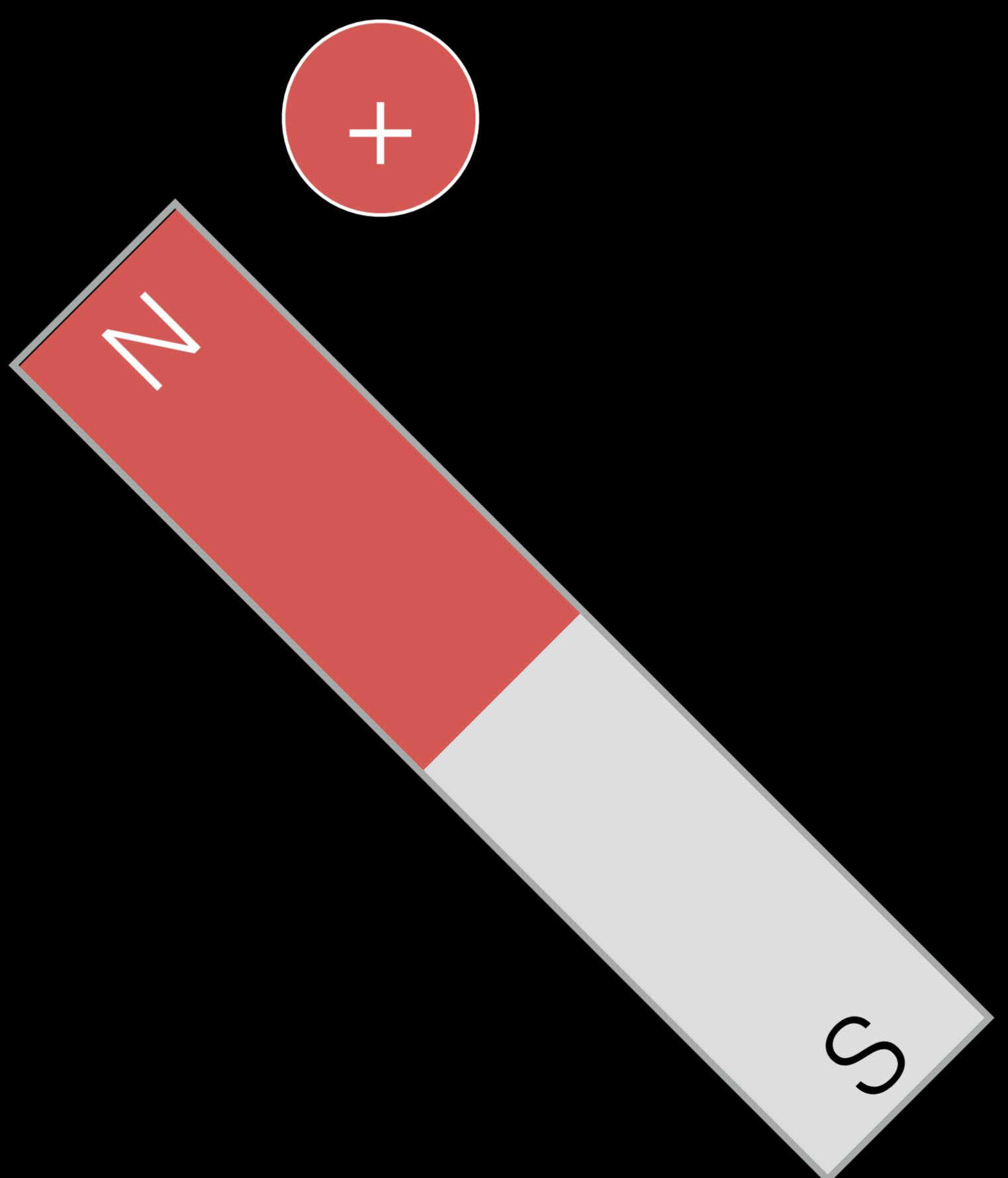
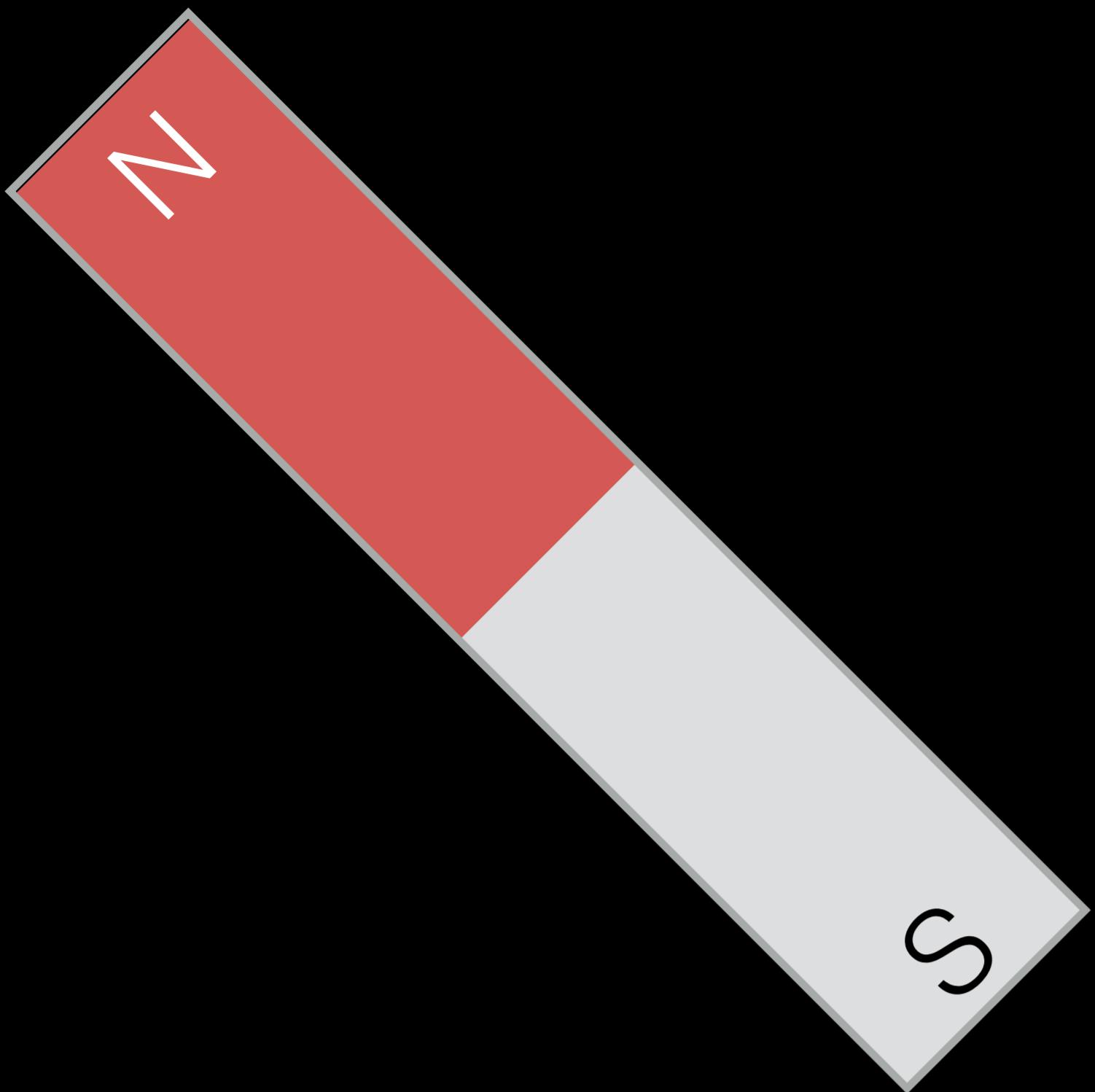
Magnetic Field of a Wire



AP Physics 2

Physics Essentials - 032

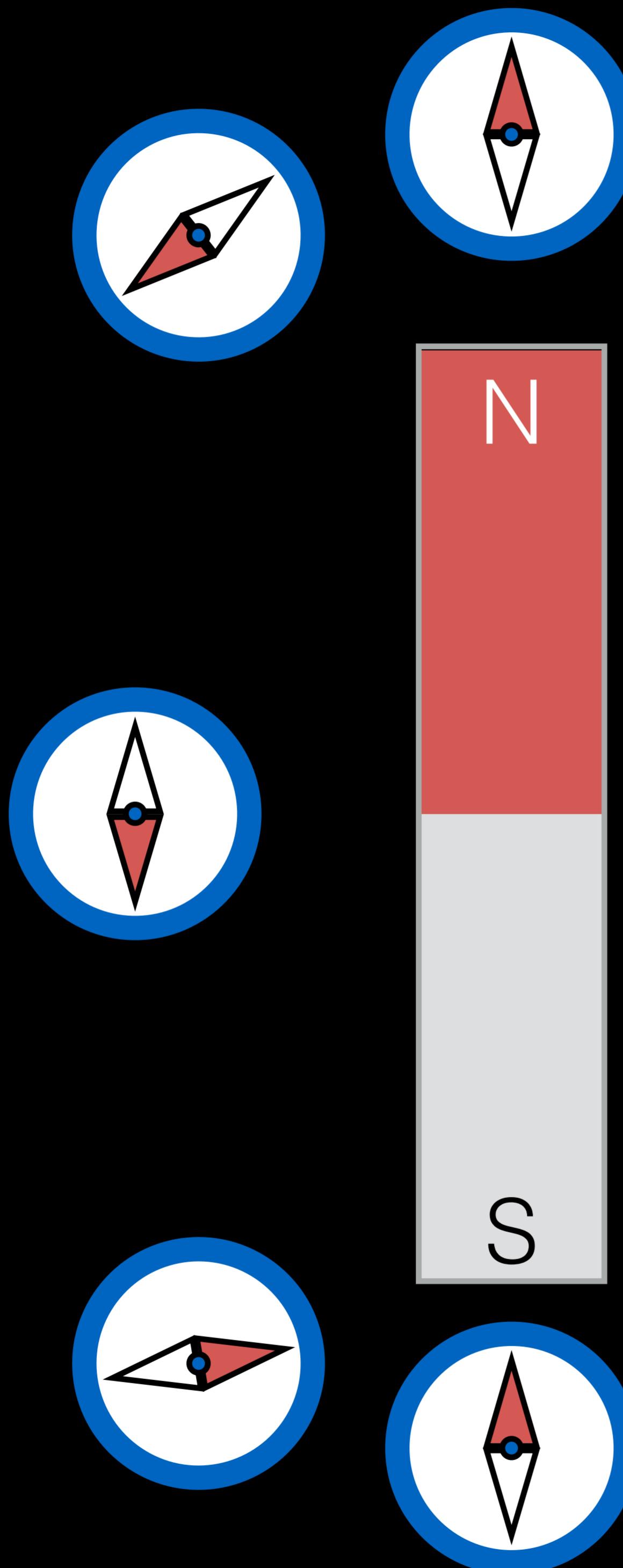
Magnetic Field of a Wire



AP Physics 2

Physics Essentials - 032

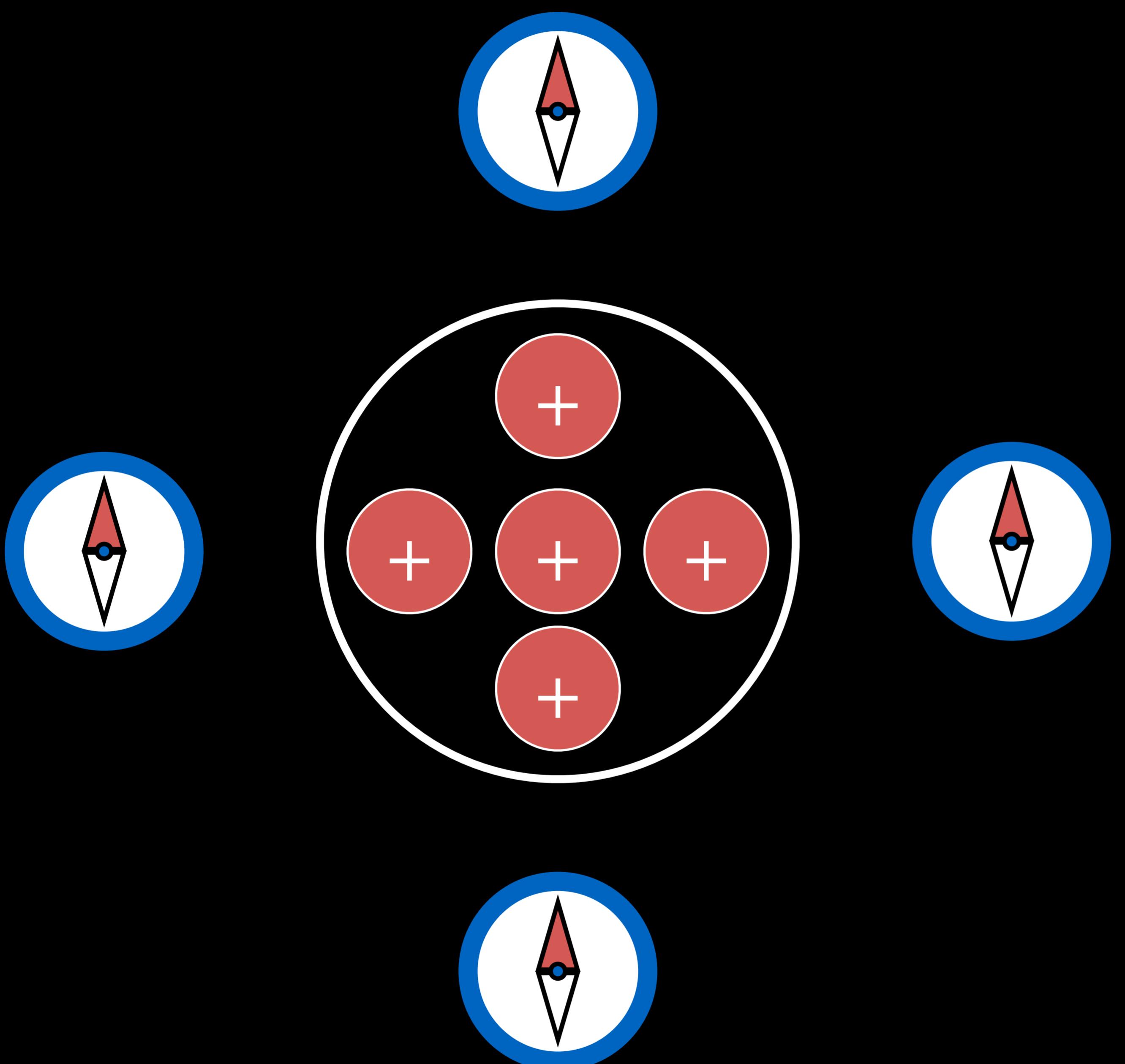
Magnetic Field of a Wire



AP Physics 2

Physics Essentials - 032

Magnetic Field of a Wire

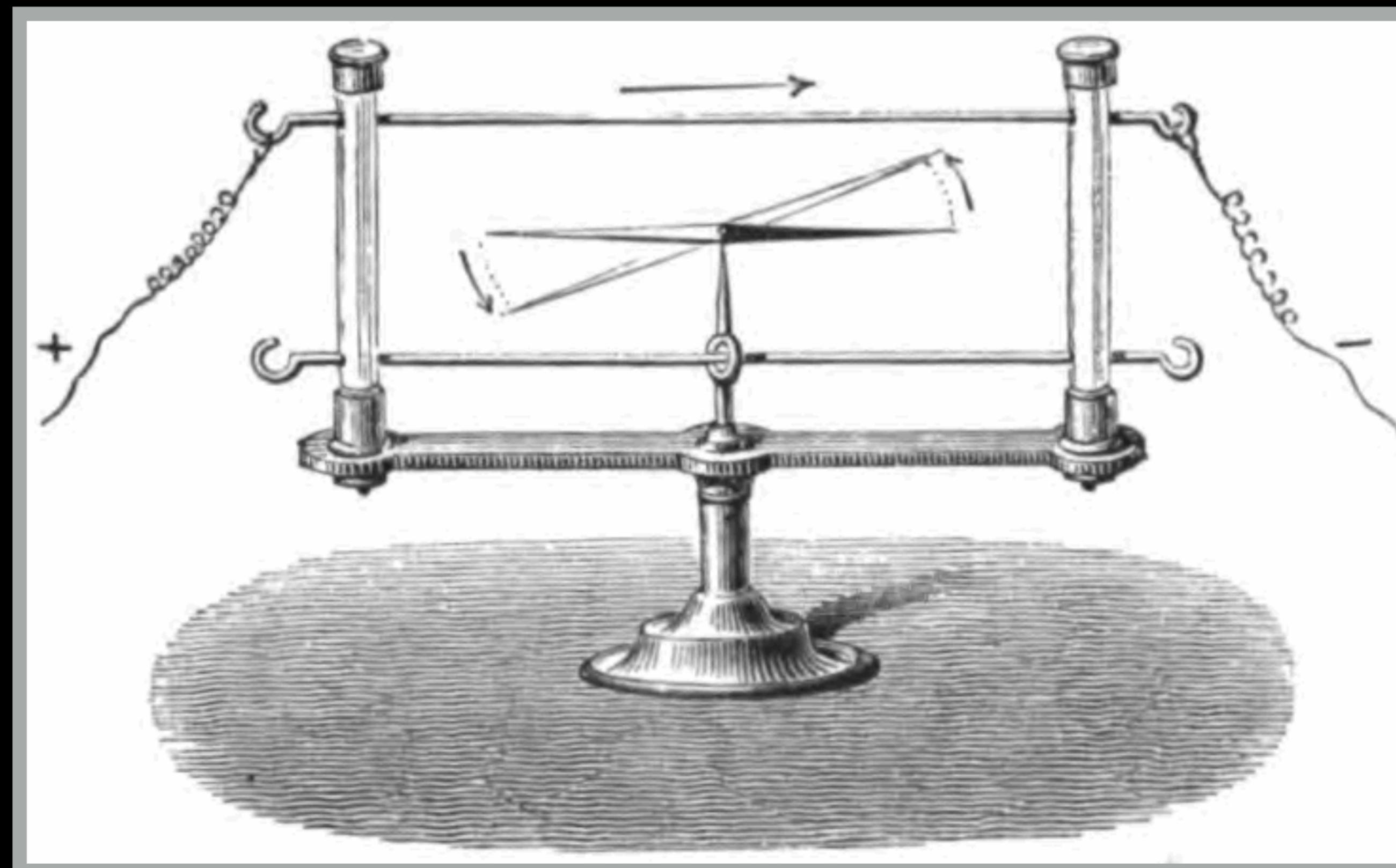


AP Physics 2

Physics Essentials - 032

Magnetic Field of a Wire

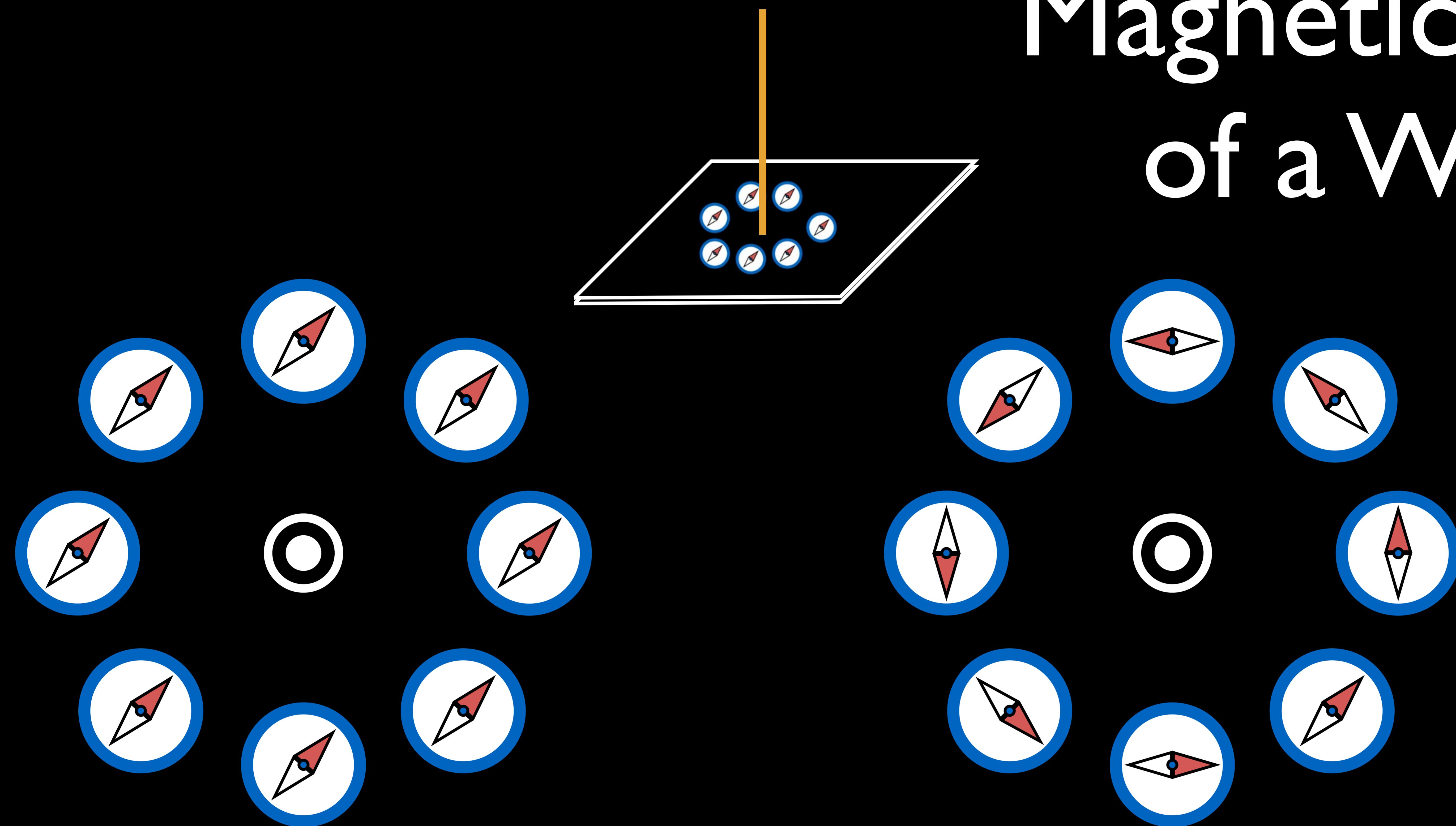
Hans Christian Ørsted

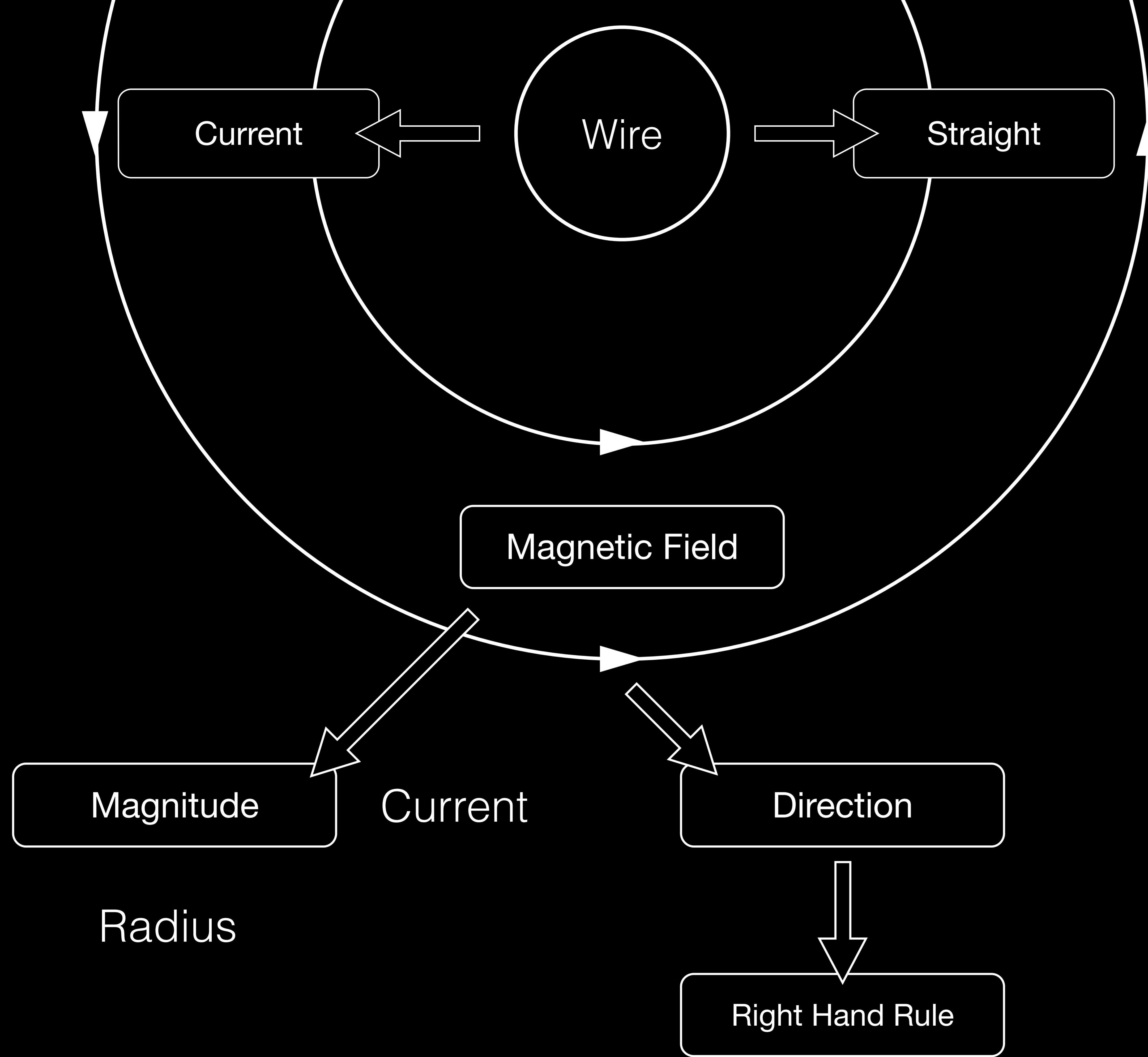


AP Physics 2

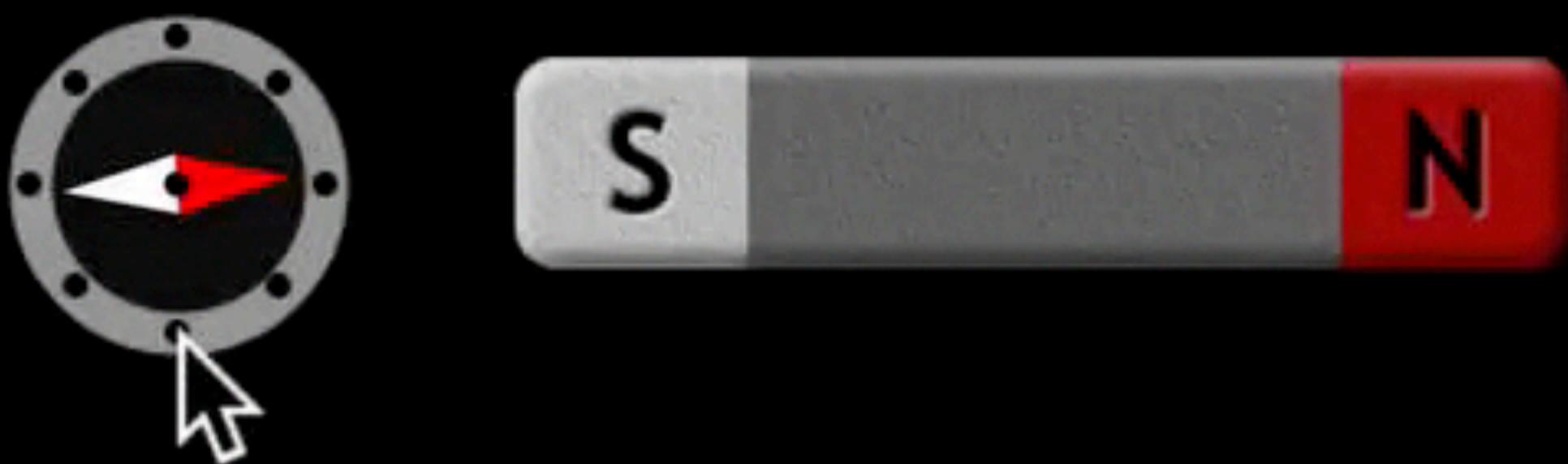
Physics Essentials - 032

Magnetic Field of a Wire

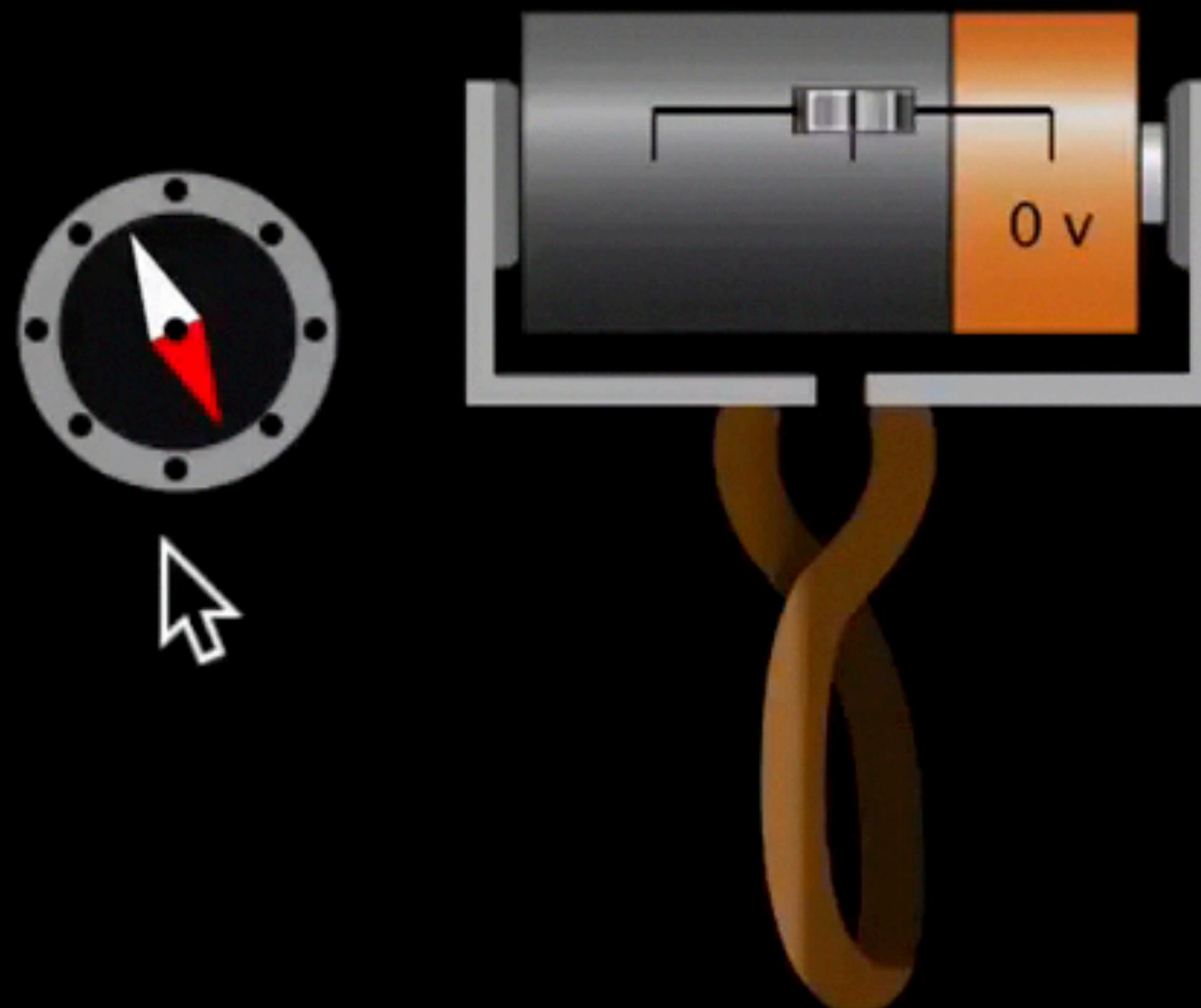




Magnetic Field

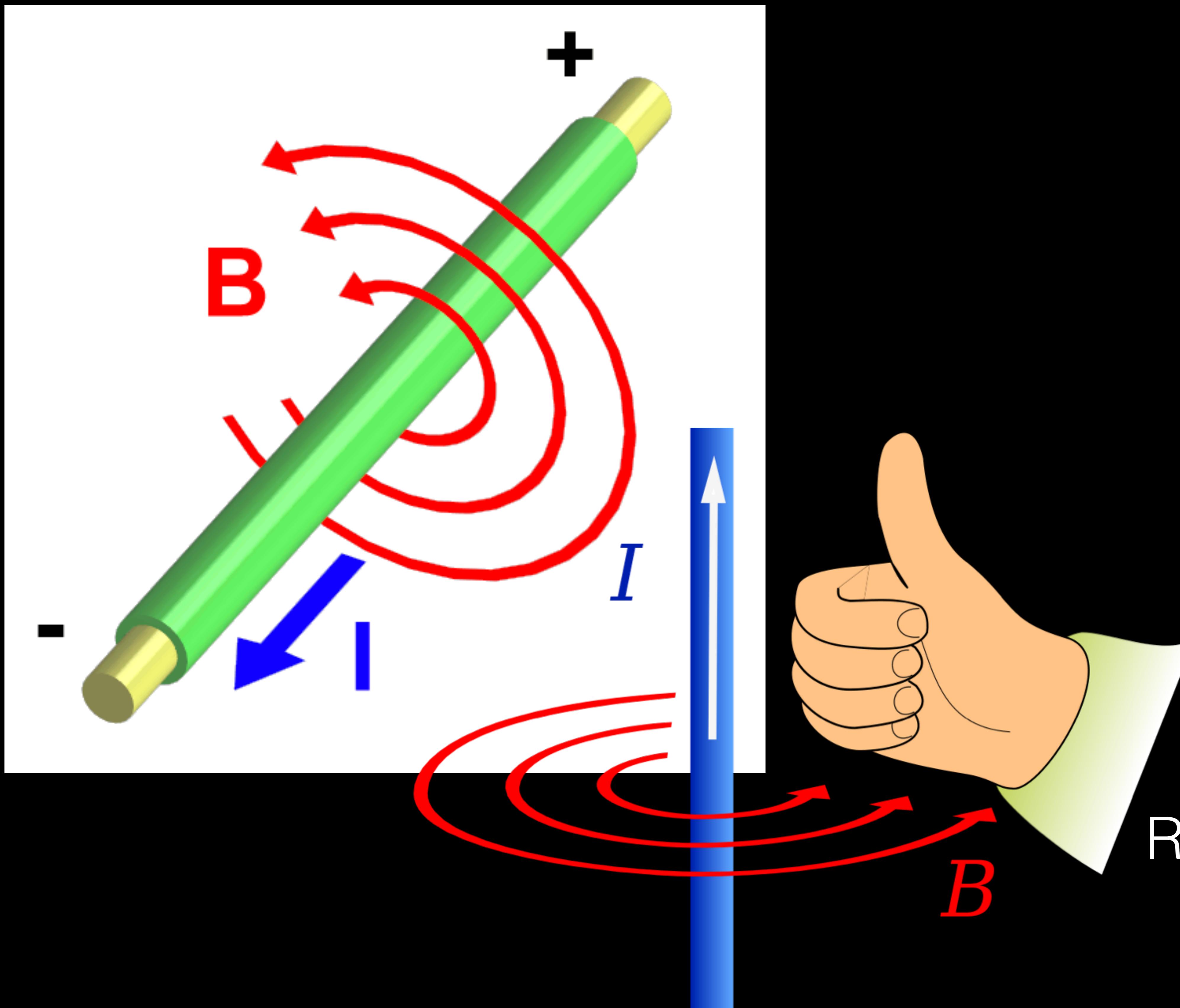


Magnetic Field of a Wire



<http://phet.colorado.edu/en/simulation/magnet-and-compass>

Magnetic Field of a Wire



Right Hand
Rule

Magnetic Field of a Wire

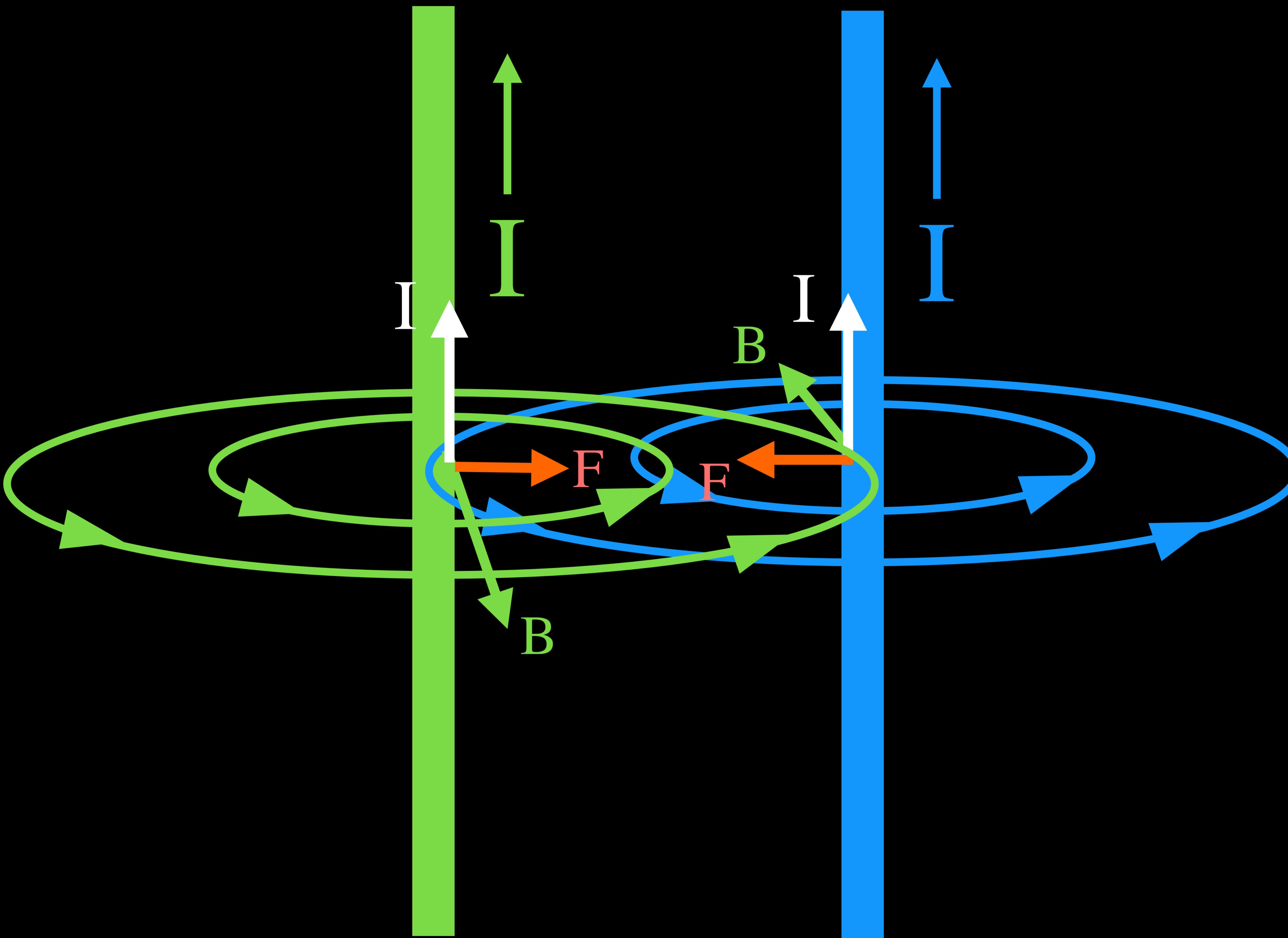
$$B = \frac{\mu_0 I}{2\pi r}$$

Permeability (N/A) →

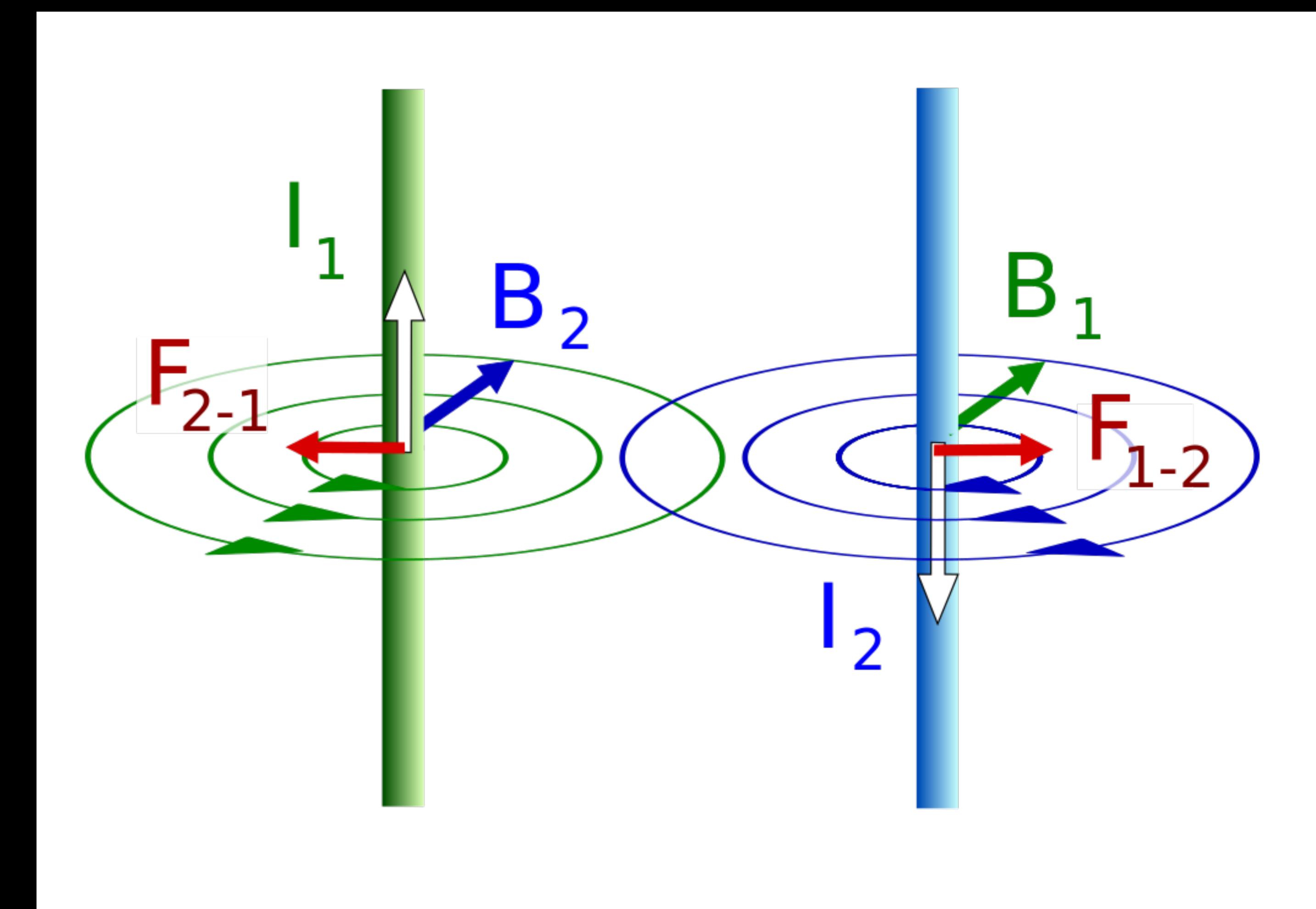
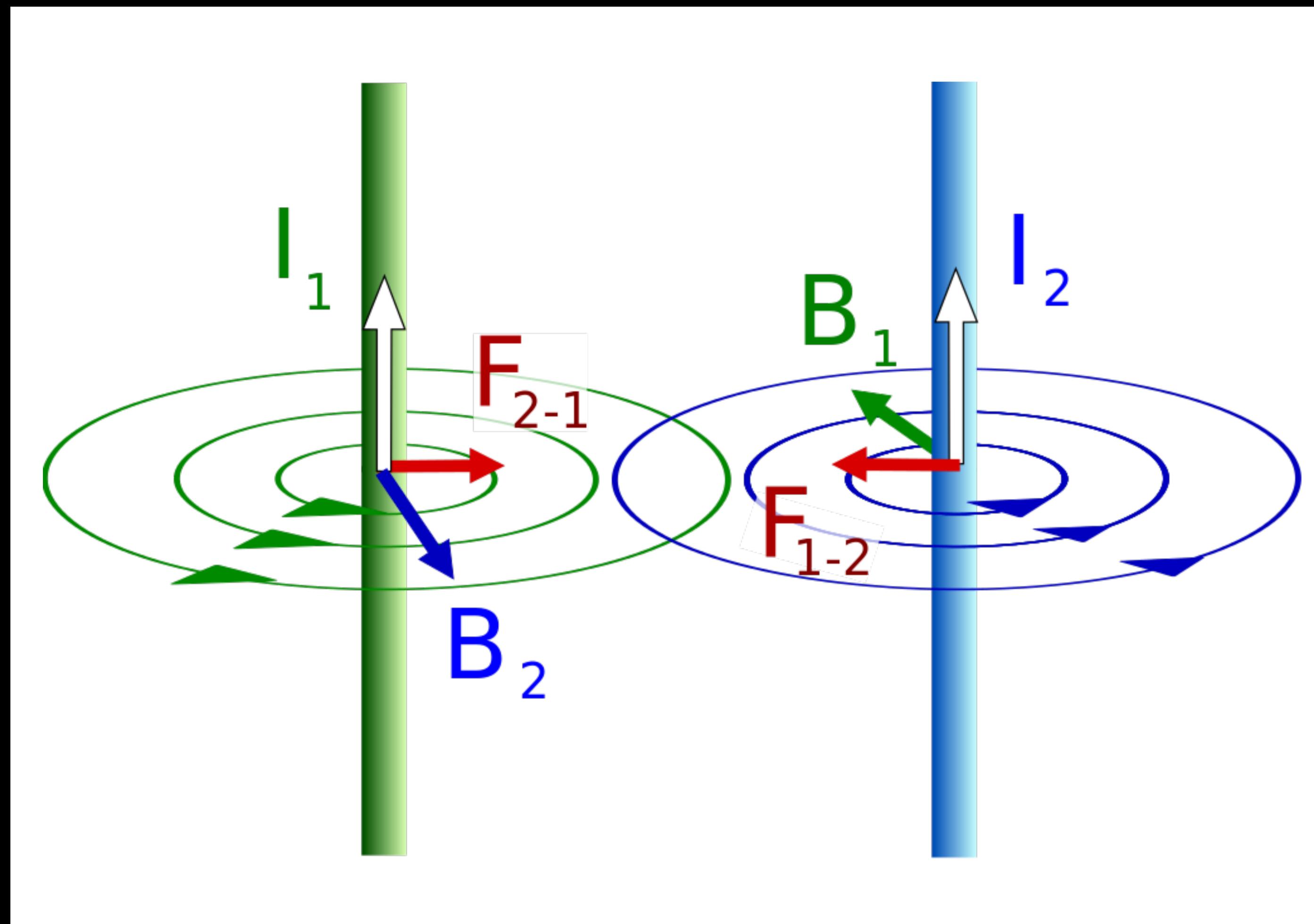
Current (A) ←

Radius (m) ↑

Parallel Wires

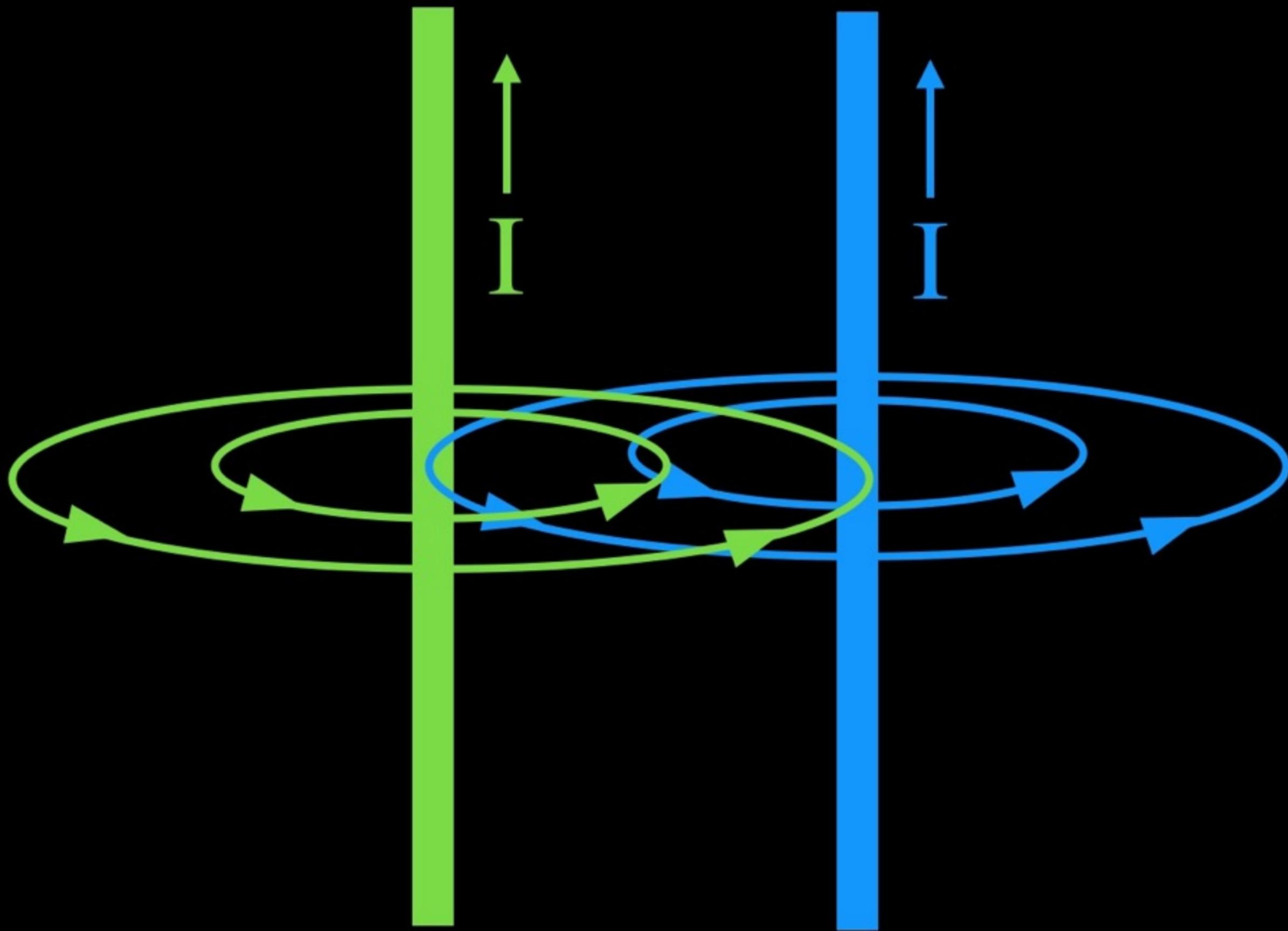


“Flow together go together”



“Flow apart go apart”

Did you learn?



To create a representation of a magnetic field around a long straight wire or a pair of parallel wires.

Acknowledgements

File:Electromagnetism.png, n.d. <http://commons.wikimedia.org/wiki/File:Electromagnetism.png>.
"File:Hans Christian Ørsted Som Ung.jpg." Wikipedia, the Free Encyclopedia. Accessed May 28, 2014. http://en.wikipedia.org/wiki/File:Hans_Christian_%C3%98rsted_som_ung.jpg.
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—. The Magnetic Field around Two Wires Carrying Current in the Same Direction, Cause the Wires to Feel a Mutual Attraction., February 28, 2008. Own work. <http://commons.wikimedia.org/wiki/File:AttractionTwoWires.svg>.



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