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<ul> <li>An <i>ideal voltage source</i> maintains a prescribed voltage regardless of the current in the device.</li> </ul>
<ul> <li>An <i>ideal current source</i> maintains a prescribed current regardless of the voltage across the device.</li> </ul>
<ul> <li>A resistor constrains its voltage and current to be proportional to each other:</li> </ul>
v = iR (Ohm's law)
<ul> <li>Kirchhoff's current law states that the algebraic sum of all currents at any node in a circuit equals zero.</li> </ul>
<ul> <li>Kirchhoff's voltage law states that the algebraic sum of all voltages around any closed path in a circuit equals zero.</li> </ul>
EECS40, Fall 2003 Lecture 4, Slide 22 Prof. King