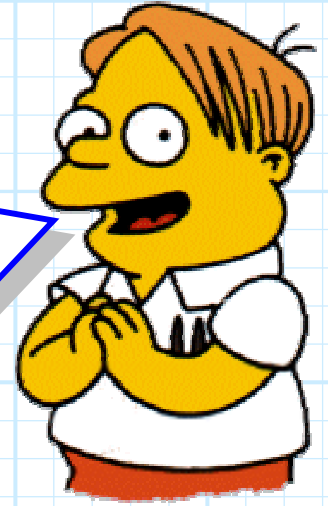
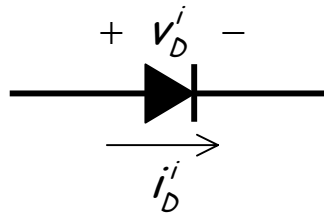


# The Ideal Diode

An **ideal diode**—the circuit device with a split personality!

→ Is it a **short**? Or is it an **open**?



	$v_D^i < 0$	$v_D^i = 0$	$v_D^i > 0$
$i_D^i > 0$	invalid	<b>forward biased</b>	invalid
$i_D^i = 0$	<b>reverse biased</b>	<b>no bias</b>	invalid
$i_D^i < 0$	invalid	invalid	invalid