



















"Amping Up" or "Toning Down"	
What makes this possible?	
Applied Voltages and Current Levels are	
 High enough to Enhance the neural components in the brain to be more readily conductive to more easily pass electrical signals faster, BUT 	
 LOW enough so that the applied electricity does not actually trigger the synapse itself. 	
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Current Direction Flow (Polarity)
 Direction of current flow differentiates anodal and cathodal stimulation by modulating the resting membrane potential of the neurons stimulated [Nitsche & Paulus, 2000]
Anodal stimulation DEPOLARIZES the neurons, increasing the probability of action potentials occurring [Nitsche et al., 2008]
Cathodal Stimulation HYPARI Co. PIZES neurons, decreasing the likelihood of action potentials occurring [Nitsche et al., 2008]
 The polarity specific effects have been demonstrated both during and continuing after stimulation [Antal et al., 2003; Prior, 2003]
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 When using this technology it is IMPERATIVE for the user to also carry out the action that is meant to be altered or enhanced
 In order to gain lasting effects and quality outcomes, repetition is key.
i.e. If an individual is attempting "Accelerated Learning" he or she needs to be actively studying or learning.
 i.e. If an individual is attempting to enhance "Motor Skills" or "Motor Control", he or she should be performing the physical act or exercise while under the influence of tDCS
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