

































The human brain				
 Information transmission rate for each sense 				
	Sensory system	Bits per second		
	eyes	10,000,000		
	skin	1,000,000		
	ears	100,000		
	smell	100,000		
	taste	1,000		
	https://www.britannica.com,	science/information-theory/Physiology		
	© André de Carvalho	- ICMC/USP	18	





Von I			
Von Neumann X Neural system			
reature	architecture	architecture	
Processor	Complex	Simple	
	High speed	Low speed	
	One or few	Large number	
Memory	Separated from processor	Integrated to processo	
	Local	Distributed	
	Non-addressable content	Addressable content	
Processing	Central	Distributed	
-	Sequential	Parallel	
	Stored programs	Learning	
Confiability	Very vulnerable	Robust	
Adequation	Numerical and symbolic	Perception	
Operational	Well defined	Poorly defined	
environment	Very restrict	No restriction	

































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