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Paths of Consciousness

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Abstract

This paper provides a theory on Consciousness. In it we hypothesize that there is a cartesian theatre and it is in the Lateral Geniculate Bodies in the right and left hemispheres where sound and sights pass through the mind. If true, the theory has implications for cartesian materialism. More work -experiments- need to be established to determine if indeed there is a cartesian theatre and is located in the LGB's.

Keywords: Consciousness; Lateral Geniculate Body; Cartesian Theatre; Reaction Times; Philosophy of the Mind.

Introduction

"Human Consciousness is just about the last surviving mystery." So begins DC Dennett's book on *Consciousness Explained*. In his work he argues that there is, contrary to philosophy of the mind since the time of Descartes, that there is no "Cartesian Theatre" where consciousness takes place. In this paper, I argue that there is a cartesian theatre, and it is in the Lateral Geniculate Bodies in both the left and right hemispheres. In fact, I hypothesize that consciousness is caused by the mind reflecting upon itself. In other words, the left brain watches the right and vice versa. I try to establish this from simple electrical engineering equations and geometry. From these equations, we see reaction times are as expected by this theory. It is still just a theory. Experiments would need to be set up and conducted to prove that consciousness happens in the center of each hemisphere. We begin our calculations with the sense of hearing. We will go through each of the five senses in turn.

vs=343 m/sec V=d/t (114.3+60.6)/t t=174.9/343=50/99~51

vL=2.99792458 vL=d/t 2.9979=d/50/99 d=152.8 vL=2.999=(152.8 +60.2)/t t=14.04 Deltat=50/99-14.04 =0.3695 =1/2.706~1/e^-1 E=e^1 Ear=7 +70+125=265mm

Ear: 60/6+114.3)=174.9~175 =1 rad

E=(1-Ln t)^7 E=V=105=(1-Ln t)^7 105^(1/7)=1-Ln t 1.994=1-Ln t Ln t=944 t=257 V=d/t 0.010=d/257 d=2.57 d/10 msec=0.257 t=KE=1/2Mv^2 257=1/2(4)(1/2) 1285=v^2 v=113.4 V=iR 113.4=4/3R R=0.85

V=d/t

1.13 = d/0.01d=0.01134 v=d/t3=d/sqrt3=519.6 Cf. 514=2(2.57) $P=i^2R$ E $xt=P=i^2R$ I2.706(14.04)=i^2 R (0.86) I=6.68~G $P=V \times A$ =(105.7(66.8)=7006.6~707=1/sqrt2 $P=E \times t$ 0.707 = 105.7(t)6.68 = t =I=t=GMind=(1-vs/vL)=1-343/2.9979=113.4113.4 = i(0.85)I=1.3333=4/3 True!

Circuit of the Mind

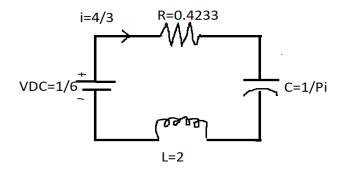


Figure 1: Electrical Circuit of the Mind

C= 0.3183=1/Pi (**Hearing**) RT=(0.4233+0.318-2) =125.84V=iR=(4/3)(125.84)=167.7=1/596~1/6 tR=20+200+358=57.3=1 rad Freq=t V=iR105.7=(i)(57.3)I=184.46=t1/t=EE = 5421P=Ex t=542 x 184 =1 $P=i^2R$ 1=i^2 (0.856) i^2=116.8=M i=108.084M=Ln t 116.8=Ln t t = 481 $P=E \times t$

The Senses

=(105)(481)=508

=5444

R=Pi+4+sqrt 0.666+sqrt 3+1/Pi 5444-5644-22.3=-222 i=4/3 R=0.4233 116.9 171 172.5 112 V = 5644171 218 666 943 C=1/Pi C=1/sqrtG C=1/sqrt3 V=177.6 V = 223W 1117=124.7^2 4/3(1+0.4233-2)=4/3 (1/sqrt3)= V=sin 60 deg + j(Pi/2)

23.06 Figure 2: Electrical Circuit of the Mind and Senses.

Ln 23.06~3.14=tmax

R=0.4233+1-2 =57.67~1 rad V=iR 5444 = i(5767)I=943.99=944=t Cf 945 tR = 20 + 200 + 358=57.3 = 1 radFrea=t V=iR105.7 = i(57.5)I=184.46=t1/t=EE=54.21~54

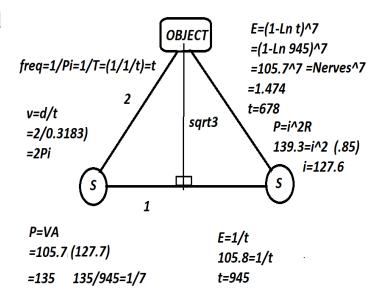


Figure 3: The equilateral triangle and two observers viewing the same object at equidistance.

V=2Pi Freq=1/Pi E=1.5.7 ^7 t = 678P=135 P/t=E t=945 $t=KE=1/2Mv^2$ $4=1/2(4) \text{ v}^2$ V^2=2 V=sqrt2 125+125=250=Period T =1/t t=4 (Touch) V=d/tSqrt2=d/44 sqrt2=d d = 565

P=176.77=180 deg.=Pi rads t=KE=1/2 rho v^2 $=1/2(4/Pi)91/sqrt2)^2$

t=1/Pi=freq. (Sight)

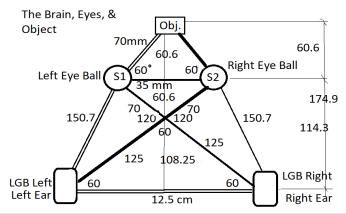


Figure 4: Eyeballs; Object and the Lateral Geniculate Body (L & R) showing distance signals must travel for consciousness.

t=KE=1/2 Mv^2

 $=1/2(4)(1/sqrt2)^2$

=2.000

d1=70+70+125=265 (Heavy Black Line in Figure 2)

d2=70+150.7=220 (Left eye to LGB Left)

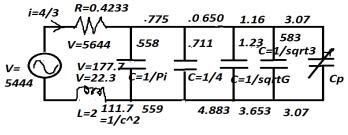
d3=220+125=345 (path of double line in Figure 2.)

V1=d/t=265/2000=132.5

V2=d/t=220/2000=110

V3=345/200=163.5

V1=132.5 x t=132.5 (220)=352/5~353 Cf. 358 (350-400msec.)



V=iR 177.7=3.07(R) R=57.88 =1 rad 1/sqrt3 =Universal Signal C=1/sqrt 3

Figure 5: Electrical circuit showing Brain plasticity R=1

Sight: Longest path from Left Eye to Right LGB.

V3=165.5

t=400 msec

V=d/t

165.5 = d/400

d=66.00

1/d=151.6

Hearing:

D4=60/6+114.3

=174.9~175

V=d/t

343 m/sec=174.9/ts

ts=196.1 Cf 200

d5=Path of the eyes=70+1507=220

v=d/t

2.9979=220/t E

tE=73.4

Delta t=ts-tE=196.1-73.4=122.7~1/815

=1/sqrt G =Taste

 $E=(1-Ln t)^7$

 $=(1-Ln 1227)^7$

=201.5 ~200

=L

70/2+70/2+125/2+125/2 (2 is the length of a 30-60-90 triangle)

=195

v=d/t

0.113 = 195/t

t=172.5~sqrt3 (**Smell**)

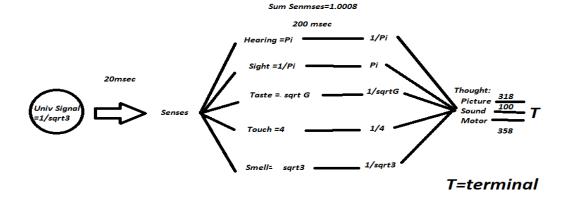


Figure 6: Reaction times

Table 1	Reaction times			
Number	Function	Time (msec)	Cf.	Page
1	Slow fingertip to brain	500	500	103
2	Speaking a syllable	200	200	66
3	Start-stop Stopwatch	175	175	"
4	Fast Fingertip to brain	20	N/A	٠.
5	Basic cycle of one neuron	10	11.34	104
6	Delay in consciousness	200	200	122
7	Speech intention + to completion	100+200=300	318	153
8	Onset of stimulation to declared conscious experience	500	500	155
9	First burst of activity after stimulation of sense organ	10-20	20	157
10	Conscious decision lag behind readiness	350-400	370	163
11	Conscious intention to act	300-500	400	164

Dennett [1] writes: "Cartesian materialism is the view that there is one critical finish line or boundary somewhere in the brain." Pg 107 That boundary line is given by the equation: $E=(1-Ln t)^7$. It goes to zero after 7 cycles, thus the power of 7. The location in the brain where the Cartesian theatre resides in in the LGB (Lateral Geniculate Body. Both sight and hearing pass this part of the brain. There is one in the left hemisphere and one in the right. The left watches the right; and the right watches the left. I Think, therefore I am! It is the self reflection that gives rise to consciousness which is like a movie picture with sights and sounds. SE=SE'

 $t^2-t-1=2t-1$

t=3;-2

=c: L

 $E=(1-Ln t)^7$

 $=(1-Ln 3)^7$

=0.09868^7

=0.00000907

t=1/E=1/908=110.027~11.03

E=(1-Ln 0.0113)^7

 $=(1-4.482)^7$

e^1.5=4.482=M =Ln t t=1.50=d

SE=E-M

Distance =time.

SE'=E=5

SE'=2t-1

2(51/5)-1

=0.6

t=116.6=M

E=(1-Lnm 1/6)^7

=132.2

T=KE=1/2 Mv^2

=1/2(116.6)(1/2)

=29.15=1/343=1/vs

Mind=(1-vs/vL)

=1-343/2.9979)=1/696~1/7

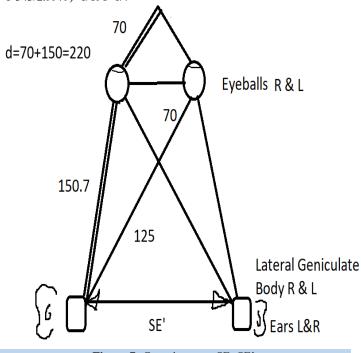


Figure 7: Consciousness SE=SE'

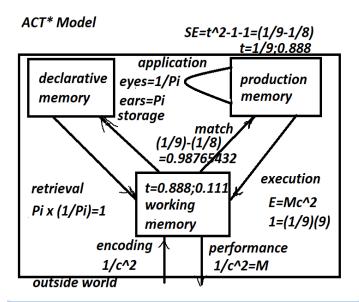


Figure 8: ACT* Model of the Mind showing input and output (1/c^2); working memory; and Self-reflection (application upper right)

Basic Cycle of one neuron t=10 msec. (Table 1)

E=(1-Ln (0.010)^7

 $=(1+46.05)^7$

=1.738=sqrt3 (Smell) and the Universal Signal.

P=E xt

=V+xt

=105.7)(11.027)

=116.6=M

The human mind has evolved to coincide with the physical universe.

Conclusion

We see that the human mid has a *Cartesian theatre* and it resides in the LGB structure in each hemisphere.

References

- Dennett, DC. Consciousness Explained. Back Bay Books. NY. 1991.
- Diamond, M., the Human Brain Coloring Book. Collins USA 1985.