DataSet from : ht	tps://drive.goo	gle.com/file/d/0B9Yf01UalbUg	QXpYb2NhZ29yX1U/view												
Data Set for t	ha avcacut	ed Stroop Test for one	sample group with diffrent word o	conditions (Congruent Incongru	ent)										
Data Set for t	ile excecute	ed Stroop restrior one s	sample group with unifient word t	onditions (Congruent, incongru	enty										
Descriptive Statis	tics		Central Tendency		Measure of variability										
-	-	Δ[t(Incongruent)-t(Congruent))] mean[Δ(t(Incongruent)-t(Congruent))]=Δ:	median[\(\Delta(t(Incongruent)-t(Congruent))					Δx+s		Δx+2s	t-value	IQR	0	IQR(Q3-Q1)
time t in sec 12.079	time t in sec 19.278	7.199	7.965	7.667	(Δt-Δμ)^2 0.586	s^2(with the Becel Formula	n-1) s .667 4.865	2*s	Δx+s 730 1:	2.830	Δx+2s 17.694	t= Δμ/(s/√n) 8.02°	Quartile 1	Quartile 3 646 10.25	9 6.613
16.791	18.741			7.507	36.178		4.000	J.	730 1.		17.034	0.02	J.	040 10.23	0.015
9.564	21.214				13.581										
8.63	15.687	7.057	7		0.824										
14.669	22.803	8.134	1		0.029)									
12.238	20.878				0.456										
14.692	24.572				3.668										
8.987	17.394				0.196										
9.401	20.762				11.534										
14.48 22.328	26.282 24.524				14.724 33.279										
15.298	18.644				21.333										
15.073	17.51				30.556										
16.929	20.33				20.828										
18.2	35.255	17.055	5		82.632										
12.13	22.158	10.028	3		4.257										
18.495	25.139	6.644	1		1.744										
10.639	20.429				3.331										
11.344	17.425				3.549										
12.369	34.288				194.720										
12.944	23.894				8.911										
14.233 19.71	17.96 22.058				17.959 31.548										
16.004	21.157				7.906										
10.004	21.137	5.150	2		7.900										
x(congruent)	x(incongruent	t)	Sample Standard Deviation (congruent)	Sample Standard Deviation (incongrue	nt)										
14.051	22.016		s(congruent)	s(incongruent)	,										
7.965			3.559	4.797											
		Variance:	12.669	23.012											
Interpretation of the DataPlot referring to Question 4 of the Instructions:															
The Plot shows the differences of the time participants needed to read out loud the ink of the displayed words between the incongruent and the congruent word condition:							∆t(Incongrue	nt-Congru	ent)			Δ[t(Incongru	ent)-t(
	154/1						00					Congruent)]			
1. ∆[t(incongruent)-t(Congruent)]							20								
It is recognized that all of the differences are positive which means the time for the incongruent word condition was always larger than for the congruent one. The addition! ploted the mean of the difference \(\lambda\x=7.965\) sec. Moreover the sample standard deviation(s) was calculated and inserted in the chart. One the one hand we have the 1's interval (green lines) and on the other hand the 2's interval (yellow line). In this sample normal distribution about 75% of the values lie in the 1s interval							7.5								
							15								
		val. Only one difference is bi		iii tile 15 liiterval		98 12									
							2.5								
1*s Interval: ∆x-s≤∆[t(Incongruent)-t(Congruent)]≤∆x+s							10								
2*s Interval: ∆x-2s≤∆[t(Incongruent)-t(Congruent)]≤∆x+2s							7.5								
Question number 5 t-statistic:															
The t-value for this sample t-test with depending variables is: $t = \Delta \mu (s/h) = 8.021$							5				##### ₋ •				
Depending on o	ur significand	ce level Alpha we can reject	or keep the Null Hypothesis:				2.5		Н -						
For Alpha=0.05 and in my expectation of a one tale test the critical value for t is (referring to the Data Sheet/image) is t(critical)=1.714 (df=23) . So our t value is exceeding the critical value therefore the Null Hypothesis is rejected. The confidence level is 95 % for this significance value							0					-			
		-	ritical value is t(critical)=2.500 (df=23)												

So our t value is exceeding the critical value therefor we reject the Null Hypothesis and stay we the alternative one: The confidence level is 99% for this significance value

This matches up with my expectation. The incongruent word condition influenced in the way that the time increased. The expected population mean for the incongruent word condition is in general (mean) about 8 sec longer that the time for the congruent condition population mean

Each Column stands for one Person