Between Participants ANOVA



As this is a between participants design, you need to define the between participants factors first. Below it is 1 and 2 for group and also 1 and 2 for gender

🏭 Between	parts.sav [Dat	aSet1] - PASW	Statistics Da	ıta Editor							
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1 : Group	1.00)									
	Group	Gender	Rt	var	var	var	var	var	var	var	var
1	1.00	1.00	754.00								
2	1.00	1.00	874.00								
3	1.00	2.00	543.00								
4	1.00	2.00	457.00								
5	2.00	1.00	777.00								
6	2.00	1.00	754.00								
7	2.00	2.00	832.00								
8	2.00	2.00	222.00								
9											
10											
11											

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B. Running the ANOVA



You will then see a box appear which looks like the one below

The name of your dependent variable is Reaction Time (RT). Highlight this, and click on the arrow to move it over to the Dependent Variable box.



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The Output

On this part of the output, look at the table of means, labelled 'Descriptive Statistics'

Depend	Dependent Variable: Reaction Times							
Croup	Condor	Condex Maan Old Davietien N						
Group	Genuer	mean	Std. Deviation	N				
High	Male	814.0000	84.85281	2				
	Female	500.0000	60.81118	2				
	Total	657.0000	191.04450	4				
Low	Male	765.5000	16.26346	2				
	Female	527.0000	431.33514	2				
	Total	646.2500	284.72018	4				
Total	Male	789.7500	57.20358	4				
	Female	513.5000	251.97685	4				
	Total	651.6250	224.53822	8				

The next table shows you the between subjects effects type) and an interaction (colour*type).

Look for the two main effects, which are group and gender, and the interaction effect

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Dependent Variat	le:Reaction Times				
Source	type III Sum or Squares	df	Mean Square	F	Sig.
Corrected Model	155709.375ª	3	51903.125	1.053	.461
Intercept	3396921.125	1	3396921.125	68.899	.001
Group	231.125	1	231.125	.005	.949
Gender	152628.125	1	152628.125	3.096	.153
Group * Gender	2850.125	1	2850.125	.058	.822
Error	197212.500	4	49303.125		
Total	3749843.000	8			
Corrected Total	352921.875	7			



At the bottom of the output you should find a plot, which gives a graphical indication of the results