

Method one for getting a subject average across two scans

1 st -level feat (subject)		2 nd -level feat (subject)	3 rd -level feat (group model)	2 nd -level feat (subject)	1 st -level feat (subject)
<i>fixed effects</i>		<i>fixed effects</i>	<i>fixed effects</i>	<i>fixed effects</i>	<i>fixed effects</i>
Scan 1			Subject average (output: one per subject) ↓		Scan 2
Run 1	↘				↙ Run 1
Run 2	→	Scan1 avg →		← Scan2 avg	← Run 2
Run 3	→				← Run 3
Run 4	↗				↖ Run 4
			4th-level feat (2 groups) <i>mixed effects</i> Inputs: 3 rd -level COPEs of subject avgs Use EVs to specify Group A or Group B Output: Group A average vs. Group B average		

Method two for getting a subject average across two scans

1 st -level feat (subject)		2 nd -level feat (subject)		1 st -level feat (subject)	
<i>fixed effects</i>		<i>fixed effects</i>		<i>fixed effects</i>	
Scan 1			Subject average ↓	Scan 2	
Run 1	↘			↙ Run 1	
Run 2	→			← Run 2	
Run 3	→			← Run 3	
Run 4	↗			↖ Run 4	
			3rd-level feat (2 groups) <i>mixed effects</i> Inputs: 2 nd -level COPEs of subject avgs Use EVs to specify Group A or Group B Output: Group A average vs. Group B average		

Could someone explain to me the source of the difference in results for the subject average?
 Is there a good reason why one of these approaches is better or worse than the other?