

## Comparison of models engaging executive functions (lowest AIC)

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analysis1: RE ~ Retype * condSTRA * condMU + (1 | ID)
analysis2: RE ~ Retype * condSTRA * condMU * MD + (1 | ID)
analysis4: RE ~ Retype * condSTRA * condMU * NA.P + (1 | ID)
analysis5: RE ~ Retype * condSTRA * condMU * NA.N + (1 | ID)
analysis6: RE ~ Retype * condSTRA * condMU * A.N + (1 | ID)
analysis7: RE ~ Retype * condSTRA * condMU * A.P + (1 | ID)
analysis104: RE ~ Retype * condSTRA * condMU * StroopAbs + (1 | ID)
analysis23: RE ~ Retype * condSTRA * condMU * MD * NA.N + (1 | ID)
analysis101: RE ~ Retype * condSTRA * condMU * StroopAbs * NA.N + (1 | ID)
analysis102: RE ~ Retype * condSTRA * condMU * StroopAbs * MD + (1 | ID)

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	Df	AIC	BIC	logLik	deviance	Chisq	Chi	Df	Pr(>Chisq)
analysis1	10	167.53	193.18	-73.767	147.53				
analysis2	18	170.79	216.94	-67.393	134.79	12.7468		8	0.120
analysis4	18	181.07	227.23	-72.537	145.07	0.0000		0	1.000
analysis5	18	164.13	210.28	-64.064	128.13	16.9468		0	<2e-16 ***
analysis6	18	175.65	221.81	-69.827	139.65	0.0000		0	1.000
analysis7	18	168.15	214.31	-66.077	132.15	7.5006		0	<2e-16 ***
analysis104	18	170.24	216.40	-67.121	134.24	0.0000		0	1.000
<b>analysis23</b>	<b>34</b>	<b>161.97</b>	<b>249.16</b>	<b>-46.987</b>	<b>93.973</b>	<b>34.154</b>		<b>16</b>	<b>0.005179</b>
analysis101	34	167.79	254.98	-49.897	99.793	0		0	1
analysis102	34	179.20	266.38	-55.598	111.196	0		0	1