TIDAL Interaction Variable

For more information, see the TIDAL GitHub page
Date generated: 2023-09-04
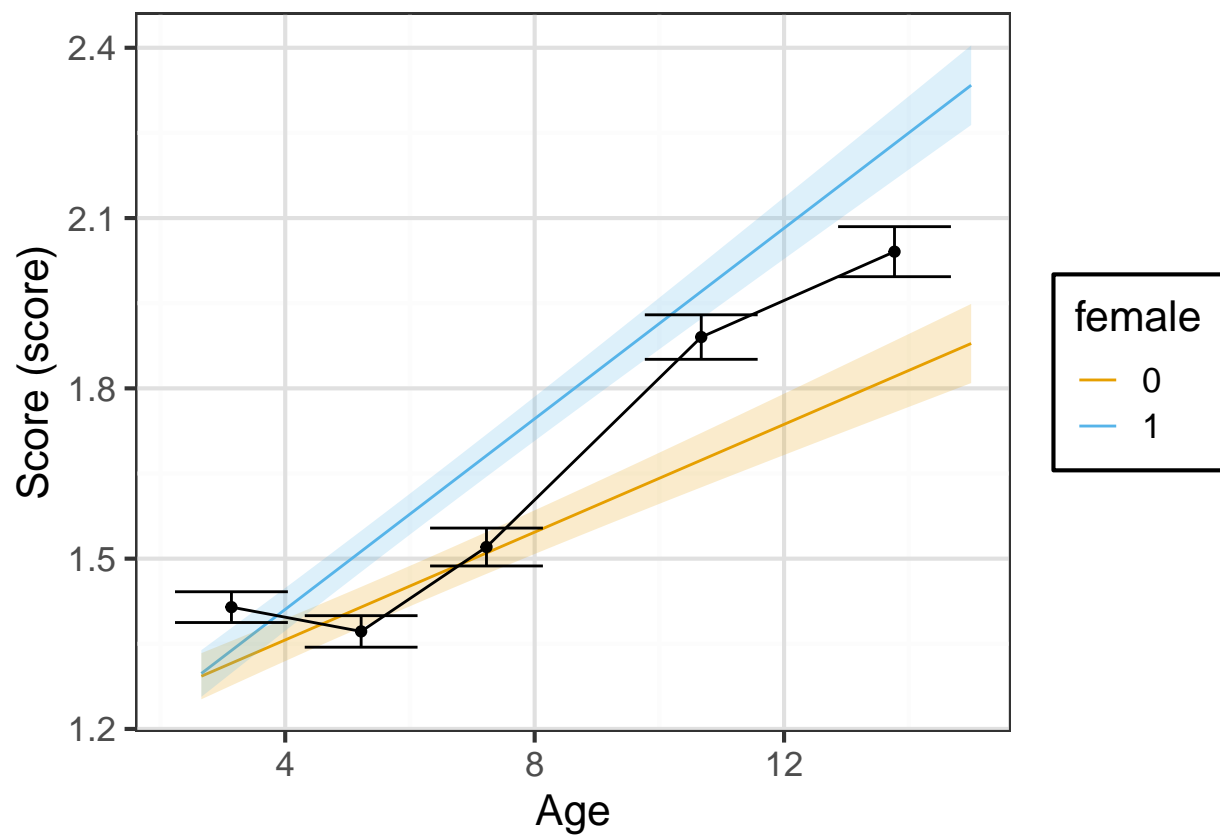Phenotype: score
Condition: female
Condition type: Categorical
Model Formula: score ~ age + (1 + age | subject) + female + age * female
Model type: Linear

Fixed effects

	estimate	std.error	statistic	2.5 %	97.5 %	p.z
(Intercept)	1.527	0.017	90.961	1.494	1.560	p < 0.001
age	0.047	0.003	16.441	0.042	0.053	p < 0.001
female1	0.184	0.024	7.729	0.138	0.231	p < 0.001
age:female1	0.036	0.004	8.911	0.028	0.044	p < 0.001

The interaction variable you have chosen has been factorised with the lowest level "female0" being the reference or baseline category. For "female0", the score at the intercept is 1.53. The intercept here has been shifted to the mean age of all the assessments which is 7.58. You could interpret this as the score at the intercept for "female0" at 7.58 is 1.53.

For "female0", every unit increase in age is associated with an increase of score by 0.05.

To estimate the effect of different trajectories, you can add the intercept and age estimates to the corresponding interactions and age:interactions to get group specific trajectories.

Further information on how to interpret these results can be found on the TIDAL GitHub training videos section. Please also see the "Plot" tab for visualisation of these results.

Random effects

Variable2	Variance/Covariance	SD Variance/Covariance
NA	1.394	1.181
age	0.081	0.464
NA	0.022	0.148
NA	1.563	1.250

Scores at Ages
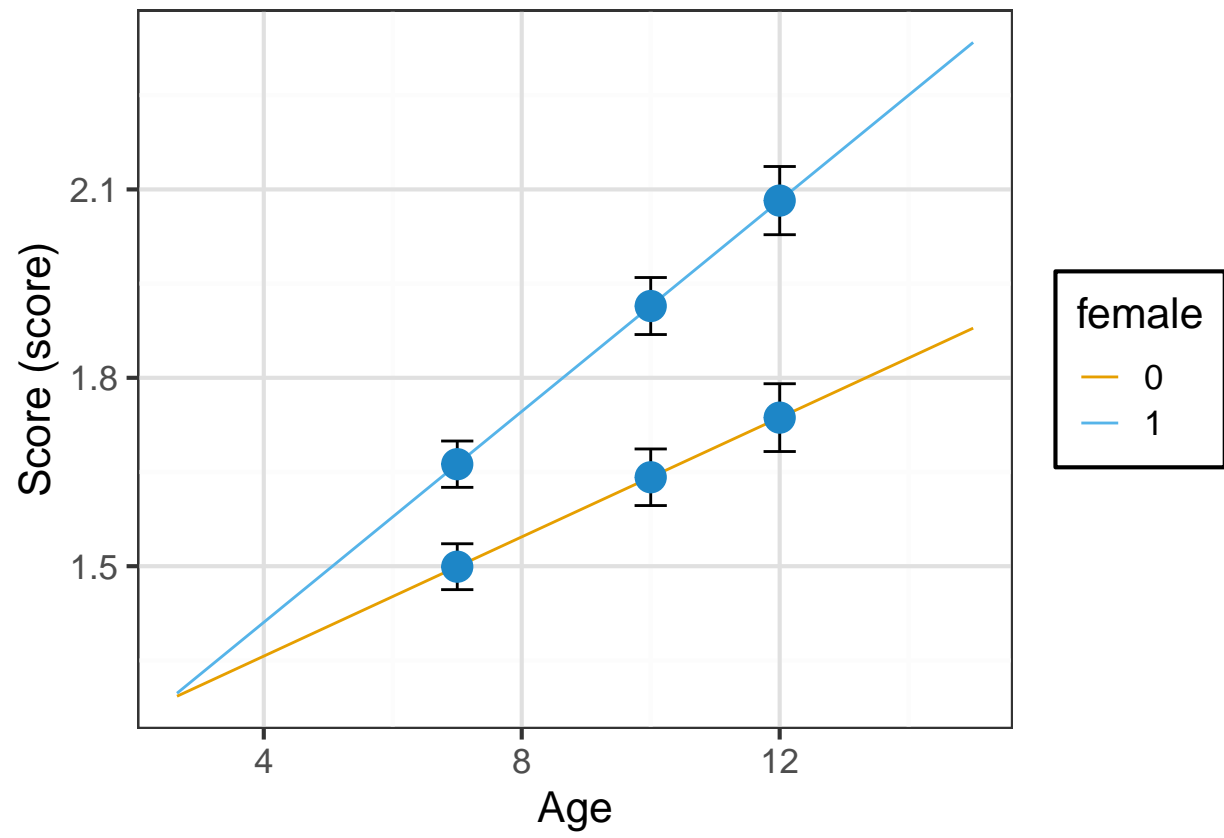
	Score (score) [female, level = 0] (95% CIs)	Score (score) [female, level = 1] (95% CIs)
7	1.499 (1.463 - 1.536)	1.662 (1.626 - 1.699)
10	1.642 (1.597 - 1.687)	1.914 (1.869 - 1.96)
12	1.737 (1.683 - 1.791)	2.082 (2.028 - 2.136)

	Difference between 0 and 1 (95% CI)
7	0.163 (0.118 - 0.209)
10	0.273 (0.217 - 0.329)
12	0.346 (0.279 - 0.413)

Area Under the Curve
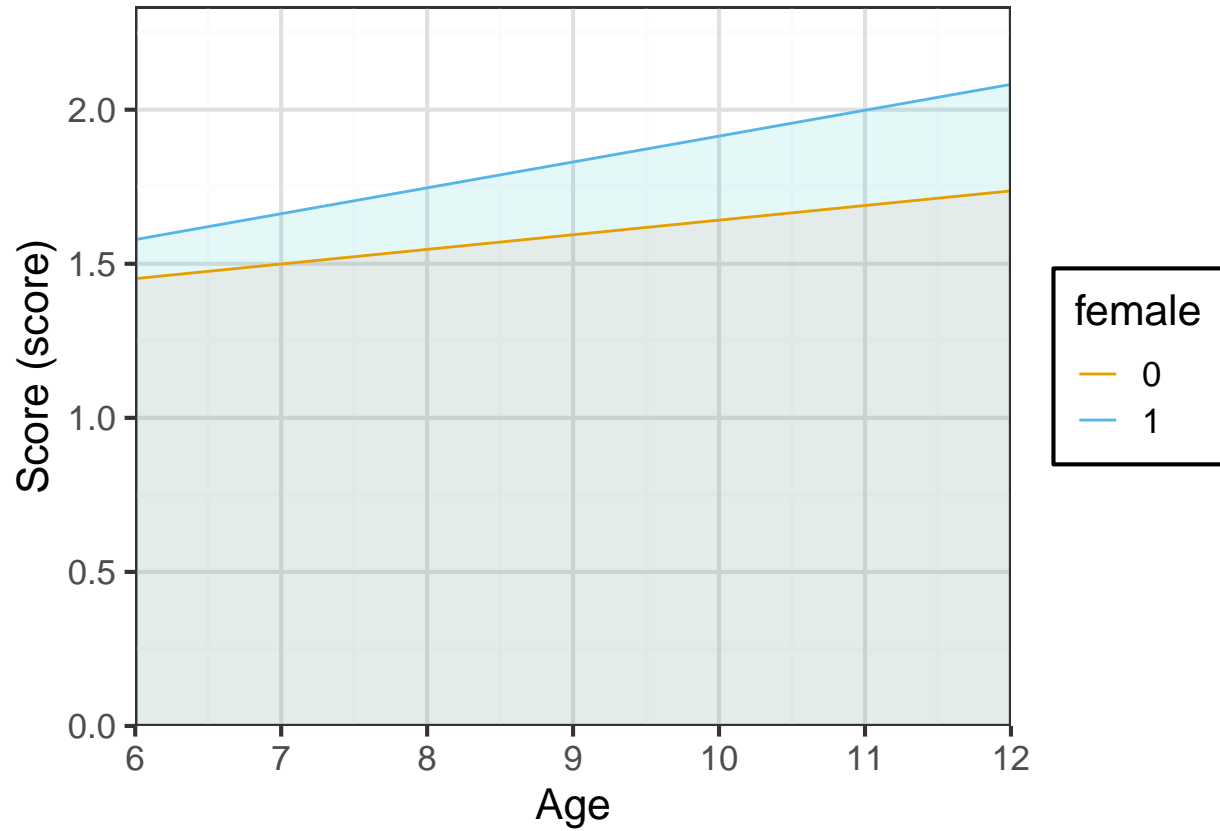
Age Range	6 - 12
AUC (score) [female, level = 0] (95% CIs)	9.56 (9.35 - 9.78)
AUC (score) [female, level = 1] (95% CIs)	10.98 (10.76 - 11.2)

The difference between the two factor levels (for the age ranges 6 - 12) is 1.42 95% CI: (1.11 - 1.73).