Table S1

Repeatability values for aversive learning conditions with bootstrapped 95% confidence intervals. Results are displayed by the condition, the male and female split, and then a contrast analysis of sex differences. Estimates with CIs that do not overlap zero are presented in bold.

Conditions	*Repeatability (R)*	*95% Confidence Interval*	*Sample Size (n)*
		Aversive Learning	
Across	**0.047**	**0.007 - 0.091**	**99**
Across Male	**0.069**	**0.014 - 0.154**	**63**
Across Female	0	0 - 0.055	36
Contrast Analysis	0.048	-0.012 - 0.114	
Green/Blue	0.028	0 - 0.137	99
Green/Blue Male	0.039	0 - 0.222	62
Green/Blue Female	0.016	0 - 0.203	37
Contrast Analysis	0.002	-0.179 - 0.176	
Blue/Green	**0.150**	**0.023 - 0.308**	**100**
Blue/Green Male	**0.232**	**0.050 - 0.374**	**62**
Blue/Green Female	0.022	0 - 0.195	38
Contrast Analysis	0.173	-0.101 - 0.375	

Table S2

Colour preference repeatability values for grey, green, red and orange with bootstrapped 95% confidence intervals. Results are displayed by the colour, the male and female split, and then a contrast analysis of sex differences. Estimates with CIs that do not overlap zero are presented in bold.

Colour	*Repeatabiltiy (R)*	*95% Confidence Interval*	*Sample Size (n)*
		Colour Preference	
Grey	**0.455**	**0.276 - 0.607**	**97**
Grey Male	**0.499**	**0.309 - 0.657**	**61**
Grey Female	**0.391**	**0.056 - 0.635**	**36**
Contrast Analysis	0.159	-0.124 – 0.506	
Green	**0.454**	**0.278 - 0.604**	**97**
Green Male	**0.434**	**0.215 - 0.614**	**61**
Green Female	**0.490**	**0.203 - 0.702**	**36**
Contrast Analysis	0.105	-0.204 - 0.524	
Red	**0.438**	**0.250 - 0.584**	**98**
Red Male	**0.492**	**0.288 - 0.656**	**62**
Red Female	**0.331**	**0.009 - 0.586**	**36**
Contrast Analysis	-0.04	-0.367 - 0.334	
Orange	**0.463**	**0.283 - 0.605**	**98**
Orange Male	**0.519**	**0.280 - 0.681**	**63**
Orange Female	**0.411**	**0.083 - 0.649**	**35**
Contrast Analysis	0.083	-0.191 – 0.461	

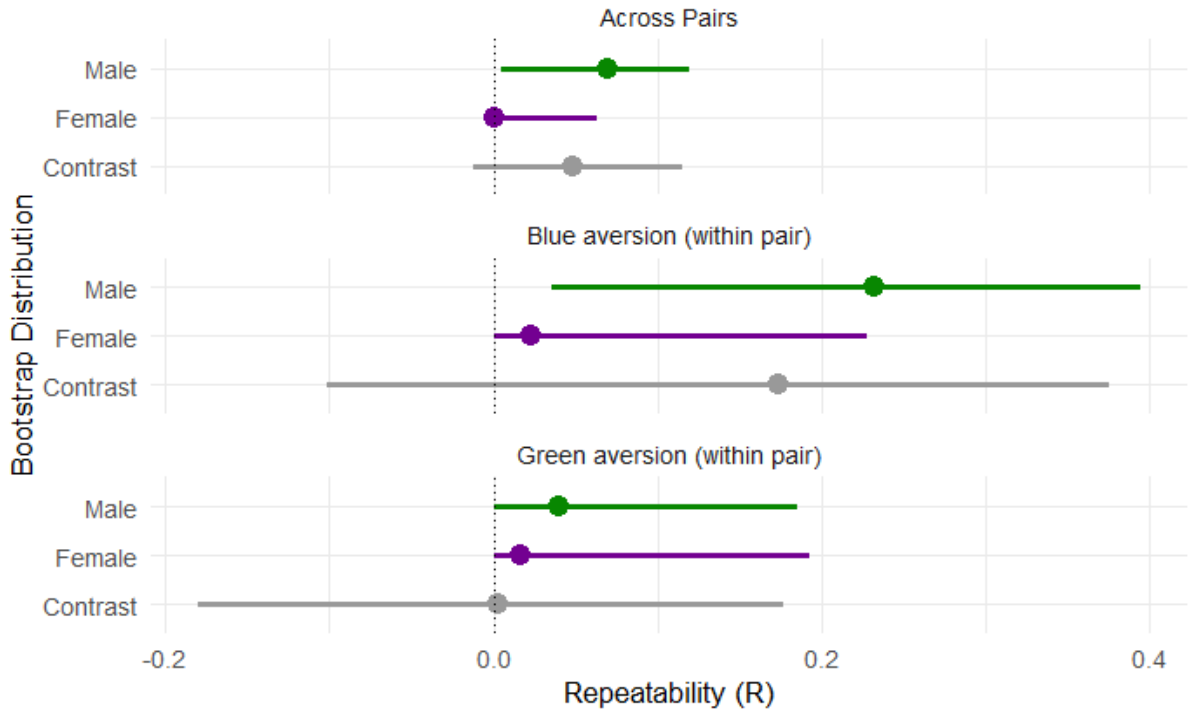

Figure S1

Male and female zebrafish contrast analysis of repeatability estimates across conditions, in the 'Blue/Green' condition and in the 'Green/Blue' condition. In all conditions, male and females differ in the repeatability bootstrap distribution, however, the contrast analysis indicates by way of the distributions overlapping zero that males and females do not significantly differ in repeatability.