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Abdi et al.  
Experimental Design & Analysis for Psychology  
Errata. February 27, 2014

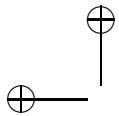
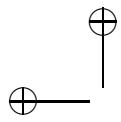


Table 2.2 on page 25 should be

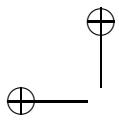
Word	Length $Y$	Number of Lines $W$	$y$	$w$	$w \times y$	$y^2$	$w^2$
bag	3	14	-3	6	-18	9	36
across	6	7	0	-1	0	0	1
on	2	11	-4	3	-12	16	9
insane	6	9	0	1	0	0	1
by	2	9	-4	1	-4	16	1
monastery	9	4	3	-4	-12	9	16
relief	6	8	0	0	0	0	0
slope	5	11	-1	3	-3	1	9
scoundrel	9	5	3	-3	-9	9	9
with	4	8	-2	0	0	4	0
neither	7	2	1	-6	-6	1	36
pretentious	11	4	5	-4	-20	25	16
solid	5	12	-1	4	-4	1	16
this	4	9	-2	1	-2	4	1
for	3	8	-3	0	0	9	0
therefore	9	1	3	-7	-21	9	49
generality	10	4	4	-4	-16	16	16
arise	5	13	-1	5	-5	1	25
blot	4	15	-2	7	-14	4	49
infectious	10	6	4	-2	-8	16	4
$\Sigma$		120	160	0	0	-154	150
						$SCP$	$SS_Y$
							$SS_W$

Table 2.2 Raw scores, deviations from the mean, cross-products and sums of squares for the example length of words and number of lines.  $M_W = 8$ ,  $M_Y = 6$ . The following abbreviations are used to label the columns:  $w = (W - M_W)$ ;  $y = (Y - M_Y)$ ;  $w \times y = (W - M_W) \times (Y - M_Y)$ ;  $SS$  stands for sum of squares (see Appendix A, page 417).



**4**

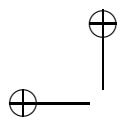
Page 40, In Table 3.1, the value of  $Y_2$  is equal to  $Y_2 = 10$



5

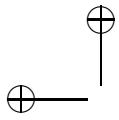
Page 111, Lines 5 and 6 should read:  
When  $X$  and  $T$  are orthogonal

$$c = \frac{SCP_{TY}}{SS_T}$$



**6**

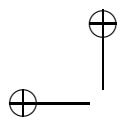
Page 191, Equation 10.2 replace  $M_{...}$  by  $M_{..}$



7

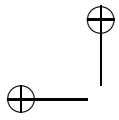
Page 203 (Equation 10.28) and page 210, the formula for  $\hat{\rho}_{\mathcal{A},Y}^2$  should read

$$\hat{\rho}_{\mathcal{A},Y}^2 = \frac{MS_A - MS_{S(A)}}{MS_A + (S-1)MS_{S(A)}}$$

**8**

Page 278, the table in mid-page should read:

		Experimental Group			
		Contact	Hit	Bump	Collide
	Contact	—	1.56	4.00	7.56*
	Hit	—	0.56	2.25	7.56*
	Bump	—	—	0.56	4.00
	Collide	—	—	—	1.56
	Smash	—	—	—	—



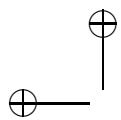
9

Page 383, the test table for an  $\mathcal{S}(\mathcal{A}) \times \mathcal{B}$  design (first table in the page) with  $\mathcal{A}$  and  $\mathcal{B}$  random should be

Source	$MS_{\text{test}}$
<i>Between Subjects</i>	
$\mathcal{A}$	—
$\mathcal{S}(\mathcal{A})$	$MS_{BS(A)}$
<i>Within Subjects</i>	
$\mathcal{B}$	$MS_{AB}$
$\mathcal{A}\mathcal{B}$	$MS_{BS(A)}$
$\mathcal{B}\mathcal{S}(\mathcal{A})$	—

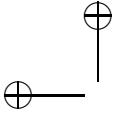
Page 383 (again) the section title should be

20.8 Score model (Model III),  $\mathcal{S}(\mathcal{A}) \times \mathcal{B}$  design: One fixed and one random.



**10**

Page 393, last paragraph line -4 read:  $F'(1, 5) = 29.33$  instead of  $F'(1, 5) = 29.22$



Page 406, the two tables in page 406 should be replaced by the two tables below (i.e., the number 1 at the intersection of row  $\mathcal{B}$  and column  $\mathcal{A}$  should be deleted).

	$\mathcal{BS}(\mathcal{A})$	$\mathcal{AB}$	$\mathcal{S}(\mathcal{A})$	$\mathcal{B}$	$\mathcal{A}$
$\mathcal{A}$	1			1	1
$\mathcal{B}$	1	1	1		1
$\mathcal{S}(\mathcal{A})$	1			1	
$\mathcal{AB}$	1	1	1		
$\mathcal{BS}(\mathcal{A})$	1	1			

	$\mathcal{BS}(\mathcal{A})$	$\mathcal{AB}$	$\mathcal{S}(\mathcal{A})$	$\mathcal{B}$	$\mathcal{A}$	$\mathbf{E}\{\text{MS}\}$
$\mathcal{A}$	1		1		1	$\sigma_e^2 + B\sigma_{s(a)}^2 + BS\sigma_a^2$
$\mathcal{B}$	1	1	1	1		$\sigma_e^2 + \sigma_{bs(a)}^2 + S\sigma_{ab}^2 + AS\vartheta_b^2$
$\mathcal{S}(\mathcal{A})$	1		1			$\sigma_e^2 + B\sigma_{s(a)}^2$
$\mathcal{AB}$	1	1	1			$\sigma_e^2 + \sigma_{bs(a)}^2 + S\sigma_{ab}^2$
$\mathcal{BS}(\mathcal{A})$	1	1				$\sigma_e^2 + \sigma_{bs(a)}^2$

Table 22.1 Final stage of the table used to derive the expected values of the mean squares for an  $\mathcal{S}(\mathcal{A}) \times \mathcal{B}$  design with  $\mathcal{A}$ ,  $\mathcal{S}$  being random factors, and  $\mathcal{B}$  being a fixed factor.