Supplementary Information for Malik-Moraleda & Gibson (2022)

| grid_location | Munsell Code | Hue | Value | Chroma |
|---------------|--------------|-----|-------|--------|
| A1            | 5R 9/2       | 5   | 9     | 2      |
| A2            | 10R 9/2      | 10  | 9     | 2      |
| A3            | 5YR 9/2      | 15  | 9     | 2      |
| A4            | 10YR 9/4     | 20  | 9     | 4      |
| A5            | 5Y 9/6       | 25  | 9     | 6      |
| A6            | 10Y 9/6      | 30  | 9     | 6      |
| A7            | 5GY 9/4      | 35  | 9     | 4      |
| A8            | 10GY 9/4     | 40  | 9     | 4      |
| A9            | 5G 9/2       | 45  | 9     | 2      |
| A10           | 10G 9/2      | 50  | 9     | 2      |
| A11           | 5BG 9/2      | 55  | 9     | 2      |
| A12           | 10BG 9/2     | 60  | 9     | 2      |
| A13           | 5B 9/2       | 65  | 9     | 2      |
| A14           | 10B 9/2      | 70  | 9     | 2      |
| A15           | 5PB 9/2      | 75  | 9     | 2      |
| A16           | 10PB 9/2     | 80  | 9     | 2      |
| A17           | 5P 9/2       | 85  | 9     | 2      |
| A18           | 10P 9/2      | 90  | 9     | 2      |
| A19           | 5RP 9/2      | 95  | 9     | 2      |
| A20           | 10RP 9/2     | 100 | 9     | 2      |
| B1            | 5R 8/6       | 5   | 8     | 6      |
| B2            | 10R 8/6      | 10  | 8     | 6      |
| B3            | 5YR 8/8      | 15  | 8     | 8      |
| B4            | 10YR 8/14    | 20  | 8     | 14     |
| B5            | 5Y 8/14      | 25  | 8     | 14     |
| B6            | 10Y 8/12     | 30  | 8     | 12     |
| B7            | 5GY 8/10     | 35  | 8     | 10     |
| B8            | 10GY 8/8     | 40  | 8     | 8      |
|   |   |   |   |
|---|---|---|---|
| B9 | 5G 8/6 | 45 | 8 |
| B10 | 10G 8/6 | 50 | 8 |
| B11 | 5BG 8/4 | 55 | 8 |
| B12 | 10BG 8/4 | 60 | 8 |
| B13 | 5B 8/4 | 65 | 8 |
| B14 | 10B 8/6 | 70 | 8 |
| B15 | 5PB 8/6 | 75 | 8 |
| B16 | 10PB 8/4 | 80 | 8 |
| B17 | 5P 8/4 | 85 | 8 |
| B18 | 10P 8/6 | 90 | 8 |
| B19 | 5RP 8/6 | 95 | 8 |
| B20 | 10RP 8/6 | 100 | 8 |
| C1 | 5R 7/10 | 5 | 7 |
| C2 | 10R 7/10 | 10 | 7 |
| C3 | 5YR 7/14 | 15 | 7 |
| C4 | 10YR 7/14 | 20 | 7 |
| C5 | 5Y 7/12 | 25 | 7 |
| C6 | 10Y 7/12 | 30 | 7 |
| C7 | 5GY 7/12 | 35 | 7 |
| C8 | 10GY 7/10 | 40 | 7 |
| C9 | 5G 7/10 | 45 | 7 |
| C10 | 10G 7/8 | 50 | 7 |
| C11 | 5BG 7/8 | 55 | 7 |
| C12 | 10BG 7/8 | 60 | 7 |
| C13 | 5B 7/8 | 65 | 7 |
| C14 | 10B 7/8 | 70 | 7 |
| C15 | 5PB 7/8 | 75 | 7 |
| C16 | 10PB 7/8 | 80 | 7 |
| C17 | 5P 7/8 | 85 | 7 |
| C18 | 10P 7/8 | 90 | 7 |
|    | Color  | Shade  | Value | 6 | 12 |
|----|--------|--------|-------|---|----|
| C19| 5RP 7/10 | 95     | 7     | 10|
| C20| 10RP 7/8 | 100    | 7     | 8 |
| D1 | 5R 6/12  | 5      | 6     | 12|
| D2 | 10R 6/14 | 10     | 6     | 14|
| D3 | 5YR 6/14 | 15     | 6     | 14|
| D4 | 10YR 6/12| 20     | 6     | 12|
| D5 | 5Y 6/10  | 25     | 6     | 10|
| D6 | 10Y 6/10 | 30     | 6     | 10|
| D7 | 5GY 6/10 | 35     | 6     | 10|
| D8 | 10GY 6/12| 40     | 6     | 12|
| D9 | 5G 6/10  | 45     | 6     | 10|
| D10| 10G 6/10 | 50     | 6     | 10|
| D11| 5BG 6/10 | 55     | 6     | 10|
| D12| 10BG 6/8 | 60     | 6     | 8 |
| D13| 5B 6/10  | 65     | 6     | 10|
| D14| 10B 6/10 | 70     | 6     | 10|
| D15| 5PB 6/10 | 75     | 6     | 10|
| D16| 10PB 6/10| 80     | 6     | 10|
| D17| 5P 6/8   | 85     | 6     | 8 |
| D18| 10P 6/10 | 90     | 6     | 10|
| D19| 5RP 6/12 | 95     | 6     | 12|
| D20| 10RP 6/12| 100    | 6     | 12|
| E1 | 5R 5/14  | 5      | 5     | 14|
| E2 | 10R 5/16 | 10     | 5     | 16|
| E3 | 5YR 5/12 | 15     | 5     | 12|
| E4 | 10YR 5/10| 20     | 5     | 10|
| E5 | 5Y 5/8   | 25     | 5     | 8 |
| E6 | 10Y 5/8  | 30     | 5     | 8 |
| E7 | 5GY 5/10 | 35     | 5     | 10|
| E8 | 10GY 5/12| 40     | 5     | 12|
| E9  | 5G 5/10 | 45 | 5  | 10 |
|-----|---------|----|----|----|
| E10 | 10G 5/10| 50 | 5  | 10 |
| E11 | 5BG 5/10| 55 | 5  | 10 |
| E12 | 10BG 5/10| 60 | 5  | 10 |
| E13 | 5B 5/10 | 65 | 5  | 10 |
| E14 | 10B 5/12| 70 | 5  | 12 |
| E15 | 5PB 5/12| 75 | 5  | 12 |
| E16 | 10PB 5/10| 80 | 5  | 10 |
| E17 | 5P 5/10 | 85 | 5  | 10 |
| E18 | 10P 5/12| 90 | 5  | 12 |
| E19 | 5RP 5/12| 95 | 5  | 12 |
| E20 | 10RP 5/14| 100| 5  | 14 |
| F1  | 5R 4/14 | 5  | 4  | 14 |
| F2  | 10R 4/12| 10 | 4  | 12 |
| F3  | 5YR 4/8 | 15 | 4  | 8  |
| F4  | 10YR 4/8| 20 | 4  | 8  |
| F5  | 5Y 4/6  | 25 | 4  | 6  |
| F6  | 10Y 4/6 | 30 | 4  | 6  |
| F7  | 5GY 4/8 | 35 | 4  | 8  |
| F8  | 10GY 4/8| 40 | 4  | 8  |
| F9  | 5G 4/10 | 45 | 4  | 10 |
| F10 | 10G 4/10| 50 | 4  | 10 |
| F11 | 5BG 4/8 | 55 | 4  | 8  |
| F12 | 10BG 4/8| 60 | 4  | 8  |
| F13 | 5B 4/10 | 65 | 4  | 10 |
| F14 | 10B 4/10| 70 | 4  | 10 |
| F15 | 5PB 4/12| 75 | 4  | 12 |
| F16 | 10PB 4/12| 80 | 4  | 12 |
| F17 | 5P 4/12 | 85 | 4  | 12 |
| F18 | 10P 4/12| 90 | 4  | 12 |
|   |   |   |   |   |
|---|---|---|---|---|
| F19 | 5RP 4/12 | 95 | 4 | 12 |
| F20 | 10RP 4/14 | 100 | 4 | 14 |
| G1 | 5R 3/10 | 5 | 3 | 10 |
| G2 | 10R 3/10 | 10 | 3 | 10 |
| G3 | 5YR 3/6 | 15 | 3 | 6 |
| G4 | 10YR 3/6 | 20 | 3 | 6 |
| G5 | 5Y 3/4 | 25 | 3 | 4 |
| G6 | 10Y 3/4 | 30 | 3 | 4 |
| G7 | 5GY 3/6 | 35 | 3 | 6 |
| G8 | 10GY 3/6 | 40 | 3 | 6 |
| G9 | 5G 3/8 | 45 | 3 | 8 |
| G10 | 10G 3/8 | 50 | 3 | 8 |
| G11 | 5BG 3/8 | 55 | 3 | 8 |
| G12 | 10BG 3/8 | 60 | 3 | 8 |
| G13 | 5B 3/8 | 65 | 3 | 8 |
| G14 | 10B 3/10 | 70 | 3 | 10 |
| G15 | 5PB 3/10 | 75 | 3 | 10 |
| G16 | 10PB 3/10 | 80 | 3 | 10 |
| G17 | 5P 3/10 | 85 | 3 | 10 |
| G18 | 10P 3/10 | 90 | 3 | 10 |
| G19 | 5RP 3/10 | 95 | 3 | 10 |
| G20 | 10RP 3/10 | 100 | 3 | 10 |
| H1 | 5R 2/8 | 5 | 2 | 8 |
| H2 | 10R 2/6 | 10 | 2 | 6 |
| H3 | 5YR 2/4 | 15 | 2 | 4 |
| H4 | 10YR 2/2 | 20 | 2 | 2 |
| H5 | 5Y 2/2 | 25 | 2 | 2 |
| H6 | 10Y 2/2 | 30 | 2 | 2 |
| H7 | 5GY 2/2 | 35 | 2 | 2 |
| H8 | 10GY 2/4 | 40 | 2 | 4 |
|   |   |   |   |   |   |
|---|---|---|---|---|---|
| H9 | 5G 2/6 | 45 | 2 | 6 |
| H10 | 10G 2/6 | 50 | 2 | 6 |
| H11 | 5BG 2/6 | 55 | 2 | 6 |
| H12 | 10BG 2/6 | 60 | 2 | 6 |
| H13 | 5B 2/6 | 65 | 2 | 6 |
| H14 | 10B 2/6 | 70 | 2 | 6 |
| H15 | 5PB 2/8 | 75 | 2 | 8 |
| H16 | 10PB 2/10 | 80 | 2 | 10 |
| H17 | 5P 2/8 | 85 | 2 | 8 |
| H18 | 10P 2/6 | 90 | 2 | 6 |
| H19 | 5RP 2/8 | 95 | 2 | 8 |
| H20 | 10RP 2/8 | 100 | 2 | 8 |

**Table S1:** Munsell Code for each of the chips on the Munsell array on which participants completed their tasks, along with the hue, value and chroma values of each of the chip as computed with R package ‘munsellinterpol v.2.6-1’
| English Term | Tsimane’ Term | Spanish Term |
|-------------|--------------|--------------|
| black       | tsincus      | negro        |
| blue        | yushnus      | azul         |
| brown       | chocolatayeisi | café       |
| brown       | cafeyeisi    | café         |
| green       | shandyes     | verde        |
| green       | gojodjeisi   | green        |
| grey        | chimdyes     | gris         |
| grey        | butryus      | gris         |
| orange      | chuinas      | anaranjado   |
| purple      | itsidyeisi   | morado       |
| red         | jainas       | rojo         |
| white       | jaibas       | blanco       |
| yellow      | cuchicuiyeisi| amarillo     |
| yellow      | vashes       | amarillo     |
| yellow      | tsundyes     | amarillo     |
| yellow      | ifuyeisi     | amarillo     |
| yellow      | chamus       | amarillo     |

**Table S2**: Color words generally used by Tsimane’ monolingual speakers for different color terms.
| Estimate          | Std. Error | Z value | Pr(>|t|) |  
|-------------------|------------|---------|---------|  
| (Intercept)       | 2.91666    | 0.62241 | 4.686   | 2.79E-06 ***  
| Frequency         | -1.10161   | 0.22002 | -5.007  | 5.53E-07 ***  
| Language          | 0.39971    | 0.68804 | 0.581   | 0.5613        
| Run               | -0.03535   | 0.13063 | -0.271  | 0.7867        
| Trial-type (Switch, Non-Switch) | -1.08256   | 0.21099 | -5.131  | 2.88E-07 ***  
| Frequency * Language | -0.89227   | 0.42213 | -2.114  | 0.0345  *     

**Table S3:** Results from generalized linear mixed effect models predicting accuracy for color data in Tsimane’ speakers that claimed to talk about color words more in Tsimane’ than Spanish (n=9). Asterisks indicate main effects that reached significance.
|                  | Estimate | Std. Error | df     | t value | Pr(>|t|) |
|------------------|----------|------------|--------|---------|----------|
| (Intercept)      | 1.38023  | 0.0441     | 54.22134 | 31.301  | < 2e-16  |
| Word-type        | 0.25521  | 0.06392    | 18.03155 | 3.993   | 0.000851 |
| Language         | 0.04817  | 0.03946    | 10.80878 | 1.221   | 0.248184 |
| Run              | -0.03877 | 0.01396    | 1233.82024 | -2.778 | 0.005555 |
| Trial-type       |          |            |        |         |          |
| (Switch, Non-Switch) | 0.06976  | 0.02428    | 1239.26965 | 2.873  | 0.00413  |
| Word-type * Language | 0.05769  | 0.06969    | 9.50111  | 0.828   | 0.428055 |

**Table S4**: Results from the linear mixed effect model predicting reaction time for color data in Tsimane’ speakers that claimed to talk about color words more in Tsimane’ than Spanish (n=9). Asterisks indicate main effects that reached significance.
**Fig. S1:** Accuracy data for each of the color words tested. Boxplot figures include median, interquartile range, standard deviation, and outlier values (solid dots) for responses to each word-type in the Tsimane’-Spanish bilinguals’ two languages. The average response of each individual is depicted as crosses, jittered for visualization purposes.
Fig. S2: RT data for each of the color words tested. Boxplot figures include median, interquartile range, standard deviation, and outlier values (solid dots) for responses to each word-type in the Tsimane'-Spanish bilinguals' two languages. The average response of each individual is depicted as crosses, jittered for visualization purposes.
Fig. S3: Accuracy and RT data for color and animal words in subject (n=9) who, when asked whether they spoke about colors in Tsimane’ or Spanish, said they spoke about color words in Tsimane’. Boxplot figures include median, interquartile range, standard deviation, and outlier values (solid dots) for responses to each word-type in the Tsimane’-Spanish bilinguals’ two languages. The average response of each individual is depicted as crosses, jittered for visualization purposes.