# Errata for: How Well Do Line Drawings Depict Shape? 

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## 1 Bas-relief fitting to median response

The calculation for the average error from the median response with bas-relief fitting shown in Table 2 of Cole, et al. [2009] is incorrect. The calculation was erroneously made by first finding the median orientation without bas-relief fitting, then applying bas-relief fitting between each participant's responses (including the median) and ground truth, then computing the error between participants' responses and the median. The correct approach is to find the median orientation without bas-relief fitting, then apply bas-relief fitting between each participant's responses and the median orientation, then compute the error between the participants' responses and the median.

The corrected numbers are shown in Table 1 and the original erroneous numbers are shown in Table 2. Overall the average error to the median is reduced by $22 \%$ when using the corrected calculation. While this is a significant improvement, however, it does not materially change the conclusions of Cole, et al. [2009].

| Model | S | H | AR | RV | SC | C |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| cubehole | 9 | 12 | - | 11 | - | 14 |
| rockerarm | 9 | 12 | 11 | 11 | 13 | 13 |
| lumpcloth | 12 | 14 | 11 | 13 | 13 | 12 |
| femur | 13 | 13 | 13 | 12 | 12 | 12 |
| pulley | 13 | 18 | 16 | 17 | 18 | 15 |
| flange | 13 | 15 | 14 | 13 | 15 | 15 |
| screwdriver | 14 | 14 | 13 | 13 | 13 | 10 |
| bumps | 14 | 12 | 13 | 13 | 11 | 8 |
| twoboxcloth | 13 | 12 | 13 | 13 | 12 | 12 |
| tooth | 14 | 14 | 12 | 14 | 14 | 13 |
| cervical | 16 | 15 | 14 | 14 | 12 | 10 |
| vertebra | 14 | 13 | 11 | 13 | 13 | 12 |
| average | 13 | 14 | 13 | 13 | 13 | 12 |

Table 1: Average error to median computed by bas-relief fitting to the median orientation. These numbers are correct.

| Model | S | H | AR | RV | SC | C |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| cubehole | 11 | 15 | - | 12 | - | 17 |
| rockerarm | 11 | 13 | 13 | 14 | 13 | 8 |
| lumpcloth | 14 | 16 | 16 | 13 | 15 | 14 |
| femur | 15 | 17 | 16 | 17 | 16 | 15 |
| pulley | 15 | 16 | 15 | 16 | 15 | 15 |
| flange | 16 | 18 | 19 | 16 | 21 | 20 |
| screwdriver | 16 | 17 | 16 | 15 | 17 | 13 |
| bumps | 17 | 18 | 16 | 18 | 14 | 13 |
| twoboxcloth | 17 | 16 | 18 | 18 | 18 | 20 |
| tooth | 18 | 22 | 21 | 21 | 21 | 21 |
| cervical | 19 | 17 | 18 | 18 | 13 | 12 |
| vertebra | 19 | 20 | 18 | 22 | 20 | 18 |
| average | 16 | 17 | 17 | 17 | 17 | 16 |

Table 2: Original average error to median as reported in [Cole et al. 2009]. These numbers were computed by erroneously bas-relief fitting against ground truth and are incorrect

## References

Cole, F., Sanik, K., DeCarlo, D., Finkelstein, A.,

Funkhouser, T., Rusinkiewicz, S., And Singh, M. 2009. How well do line drawings depict shape? SIGGRAPH '09: SIGGRAPH 2009 papers (Jul).

