

CORRECTION

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Correction: A moderate role for cognitive models in agent-based modeling of cultural change

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Correction

After publication of (Abrams 2013), I discovered errors in two formulas in the **settle-nets** paragraphs of the **POPCO main loop** section in **Methods** (page 13 in the PDF file). I correct these errors here. In the definition of the weighted sum n_i of input activations a_j from nodes j to node i across links with weights w_{ij} , the direction of the inequality was reversed. The definition of n_i should read:

$$n_i = \sum_j w_{ij} \max(0, a_j) \quad \text{for } w_{ij} < 0.$$

There were also errors in the definition of s_i , the weighted sum of a node's current activation a_i and its summed inputs p_i and n_i across positively and negatively weighted links, respectively. The definition of s_i should read as follows:

$$s_i = (1 - .1) a_i + (.99 - a_i) p_i + (a_i - (-.99)) n_i$$

I regret these errors and hope that they do not cause confusion. Full source code for the version of POPCO used in Abrams (2013) can be found at <https://github.com/mars0i/popco>.

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References

Abrams M: **A moderate role for cognitive models in agent-based modeling of cultural change**. *Complex Adaptive Syst Model* 2013, **1**(16):1–33.

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