

Faulty Towers

Tobias Gerstenberg (tger@mit.edu), Liang Zhou, Kevin Smith, Josh Tenenbaum
January 21, 2017

Contents

1 Experiment 5: Selection with new stimuli	2
1.1 Methods	2
1.2 Results	2
1.2.1 Empirical selections	2
1.2.2 Local-above noise	3
1.2.3 Local noise	4
1.2.4 Global noise	5
A Feedback	6
A.1 Participants' comments in Experiment 1	6

1 Experiment 5: Selection with new stimuli

1.1 Methods

1.2 Results

1.2.1 Empirical selections



1.2.2 Local-above noise



1.2.3 Local noise



1.2.4 Global noise



A Feedback

A.1 Participants' comments in Experiment 1

1. Just how the blacks were positioned
2. Please clarify on your expectations - do you expect the red brick to be responsible for keeping ALL the other bricks on the table, or just some?
3. How much weight it seemed that the blocks had when they fell.
4. how much the red brick was needed to maintain balance of others
5. The weight of the blocks and how they were arranged. This was really interesting.
6. The red block being the main support for the grey blocks influenced my responsibility judgments. Great experiment!
7. how many were on top or leaning on the red block.
8. The way the block was sitting
9. **I tried to visualize what would happen and how much of the blocks would fall if the red block was removed.**
10. **I thought about how many blocks would be displaced by removing the red block. Then I thought about the fraction of blocks moved to blocks not moved.**
11. **I pictured the red block being removed and whether the others would stay on the table.**
12. The way the red block was positioned and determining how many gray blocks were stacked against or on top of the red block, were what helped influence the judgments that were based on this survey.
13. **HOW MANY BLOCK WERE ON TOP OF THE RED BLOCK, AND WOULD BE DIRECTLY AFFECTED IF IT WAS REMOVED.**
14. I tried to see if the red brick was supporting any or some of the grey bricks' standing.
15. **just thought about if the red block disappeared**
16. placement and angle
17. I tried to mentally replay the same physics I had seen during the simulations on the blocks I was looking at.
18. **I estimated how many would fall off if the red block disapeared**
19. I guessed
20. Just the position of the blocks. None
21. **Whether the gray blocks seemed to be supported by the red block or not - if removing the red block would cause the gray blocks to fall.**
22. no
- 23.
24. The position of the blocks
25. **Number of blocks in precarious positions, where I imagined blocks to fall, and the number of blocks directly affected by removing the red block**

26. I couldn't but visualize this as a virtual game of Jenga - it was really the only method that guided me.
27. Factors that influenced my judgment was whether the red block appeared to be holding up any grey ones, or if pulled out (like Jenga) it would cause they grey blocks to fall.
28. guess
- 29.
30. no comments
31. How the block ws balancing other blocks
- 32.
33. How structural the red block seemed to be in each scenario
34. **How many blocks were on top of the red one, which way the blocks would fall if the red one were suddenly removed, how the blocks may have fallen...**
35. where the red one was.
36. I just eyeballed it
37. **I judged what would likely happen if the red box was not there and made my determination based on where I judged the grey blocks would fall. If it was likely that the gray blocks would fall in such a way that they still would remain on the table then I attributed less cause to the red block. If it was likely that the grey blocks would fall in such a way that they would fall and/or bounce off the table then I attributed more cause to the red block.**
38. how much they were leaning on the red i guess
39. How the gray blocks were placed against the red block and if the red block would of affected enough of them to not be on the table
40. I DONT KNOW