

# Mechanisms of surface perception uncovered by visual illusions

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Propositions belonging to the thesis

Mechanisms of surface perception uncovered by visual illusions

1. The higher the accuracy of the measurement method, the more the necessity for an alignment method.
2. Studying surface perception is a tool to acquire insight into consciousness.
3. Negative findings should be published but should not be a reference against which positive findings are measured.
4. V2 integrates important information necessary for surface perception, and since surfaces are the building blocks of our environment, V2 is likely to play a privileged role in visual awareness.
5. Simulations of existing neural data leads to more detailed research questions.
6. Visual filling-in is analogous to how we fill-in gaps in our memory.
7. Researchers are nodes in the complex network of cognitive neuroscience.
8. Every theory will eventually be falsified.
9. The day we understand the computations in the brain necessary to do research we will know how the brain works.
10. The interpretation of fMRI data is almost always possible by the grace of parallel neurophysiological data in animal models.

Bert Jans

Maastricht, 7 September 2011