How perceived causality influences perceived symmetry

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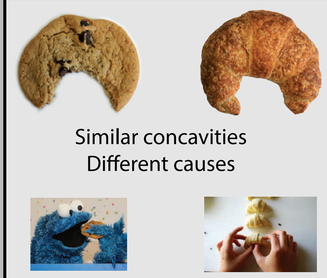
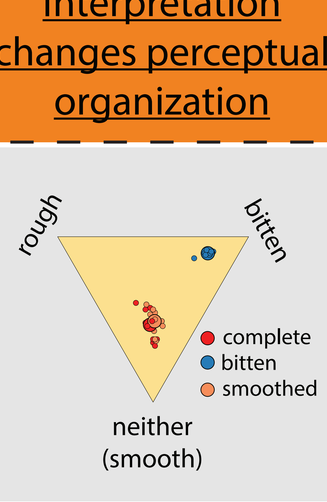
Introduction

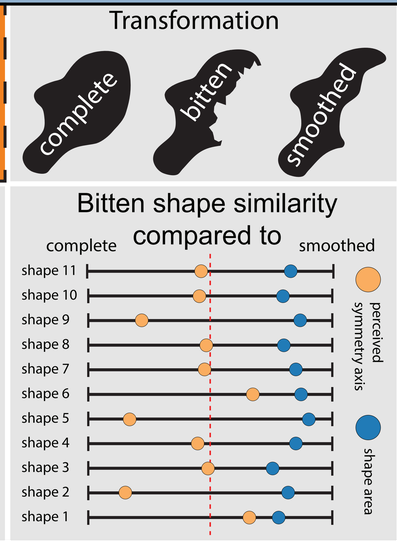


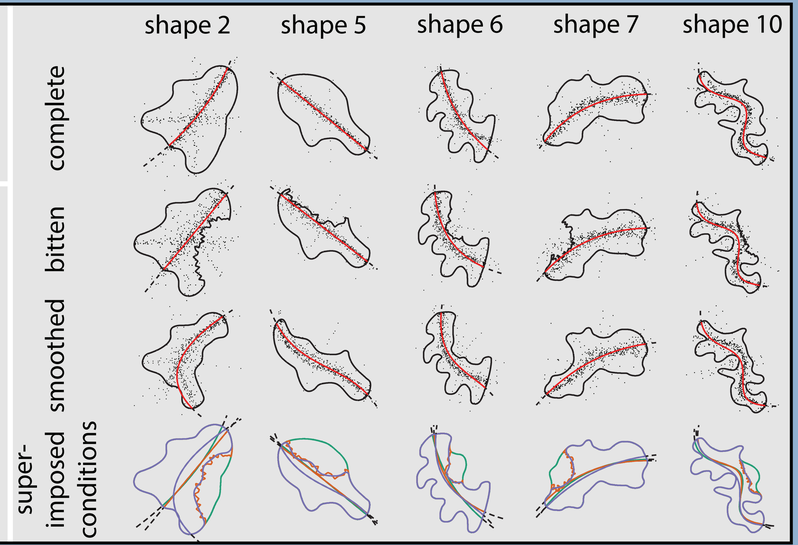
How does causal interpretation of negative parts influence perceived symmetry?

Experiment 2

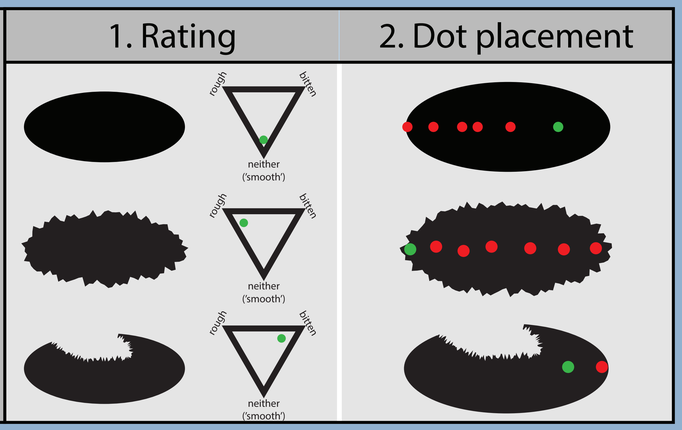
Interpretation changes perceptual organization





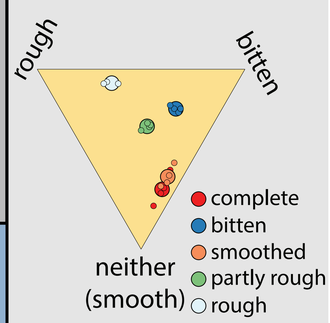


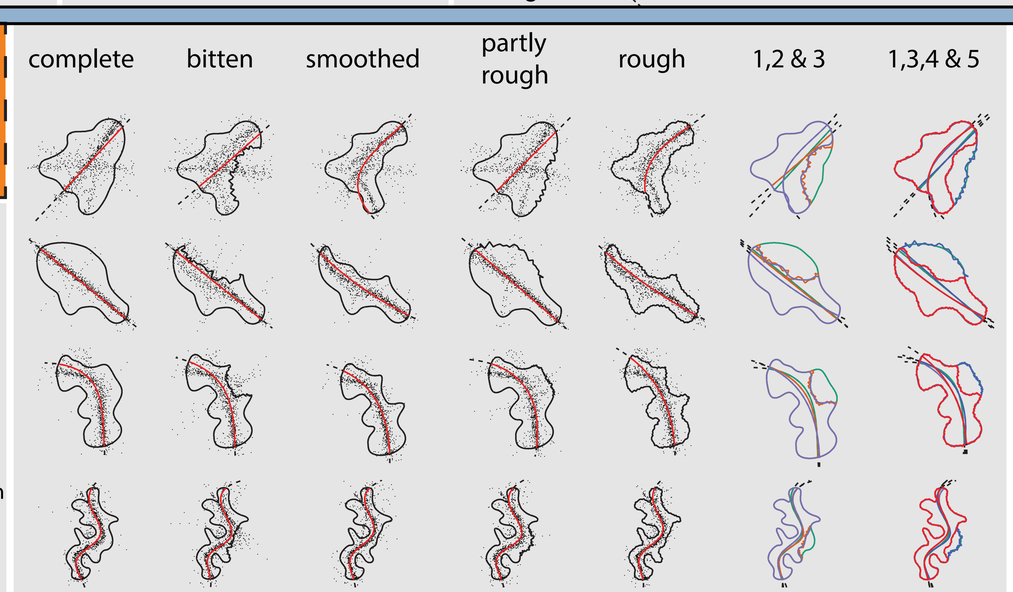
Task



Experiment 3

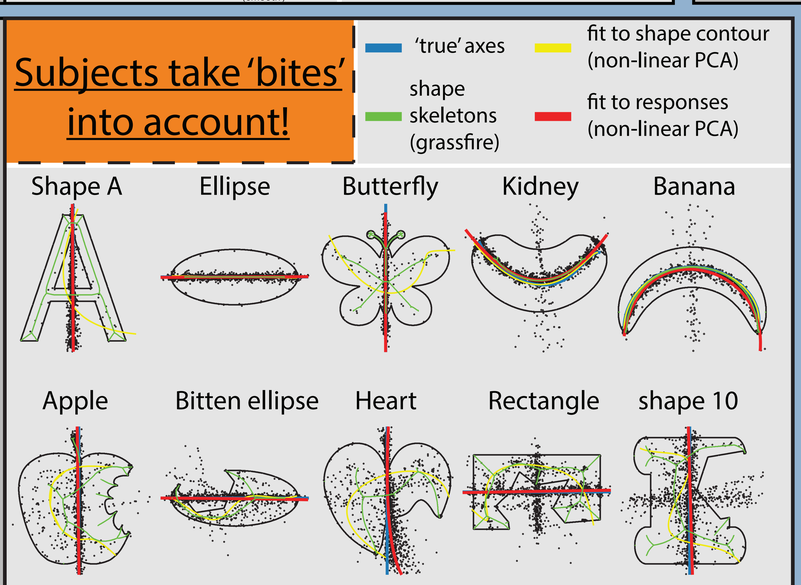
Roughness does not determine 'bite' interpretation





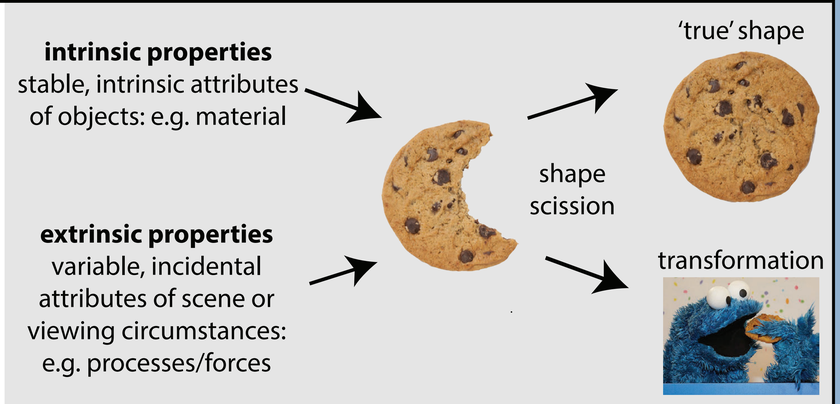
Experiment 1

Subjects take 'bites' into account!



Conclusion

- Subjects spontaneously compensate for 'bites' in symmetric & familiar shapes
- For asymmetric & unfamiliar shapes subjects are uncertain about response
- Reported symmetry axis changes with causal interpretation of concavity
- Generative models of shape play an important role in perceptual organization and shape perception



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