Spatial Interference within Receptive Fields for High and Low-Level Stimuli

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Background
Receptive fields increase in size across the ventral stream and have a strong contralateral bias.

Experiment 1 & 2
The stimuli
V4 RFs  FFA RFs

The task
When multiple items land within a receptive field, they interact and compete with one another.

Experiment 3
Does this same effect exist with color if they are close enough to land in the same receptive fields?

Experiment 4
Does the asymmetry between high and low-level items also exist within a visual hemifield?

Summary
When multiple items land within the same receptive field, they interfere with one another and decrease behavioral performance.

Outstanding questions
How does competition in receptive fields affect performance? Does it change the representation? Increase binding errors?

Receptive fields exist in modalities besides vision (e.g. audition).

Does this type of within receptive field interference exist in other modalities?

References