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| Version | Stimulus | Design | Result (see Keynote for images) |
| 16 | * SFs: 0.5, 1, 2, 4, 8, 11 cpd * Ecc: 0, 3, 6, 12 deg * Gabor size: 4 deg * Tilt: 45 deg * Cue duration: 70 ms * Cue ISI: 30 ms * **Stim duration: 150 ms** * Resp cue ISI: 100 ms * Cue: pair of white circles (0.35 deg radius) * Cue-to-stim distance: 1.75 deg from upper/lower edge * Monitor distance: 79 cm (distance changed to have enough resolution for high SF while keeping a peripheral eccentricity) | \* Method of constant stimuli   * 5 contrast levels centered around threshold estimate, determined using 1-up 1-down staircase set to converge @ 70% correct. * Contrast levels have **0.15 log-unit spacing** (4 levels had the above spacing, while 1 level was at 100% contrast) * >=40 trials per contrast level   \* All conditions interleaved | * Consistent attention effects for Antoine and I, except for 3 deg eccentricity. * Increasing stimulus duration seemed to do the trick. * Idea for increasing stimulus duration came from Wang et al., 2015 showing that the attention effect is most prominent ~80-180ms after stimulus onset. * 0.15 log-spacing of contrast seems to adequately sample dynamic range of PF. |
| 15 | * SFs: 0.5, 1, 2, 4, 8, 11 cpd * Ecc: 0, 3, 6, 12 deg * Gabor size: 4 deg * Tilt: 45 deg * Cue duration: 70 ms * Cue ISI: 30 ms * Stim duration: 120 ms * Resp cue ISI: 100 ms * Cue: pair of white circles (0.35 deg radius) * Cue-to-stim distance: 1.75 deg from upper/lower edge * Monitor distance: 79 cm (distance changed to have enough resolution for high SF while keeping a peripheral eccentricity) | \* Method of constant stimuli   * 5 contrast levels centered around threshold estimate, determined using 1-up 1-down staircase set to converge @ 70% correct. * Contrast levels have 0.10 log-unit spacing (4 levels had the above spacing, while 1 level was at 100% contrast) * >=40 trials per contrast level   \* **SF blocked, eccentricity interleaved** | * Blocking SF would hopefully reduce uncertainty in what the observer needs to read out. * *Effects did not differ between interleaved and blocking designs.* * Decided to stick with interleaved design to reduce any top-down effects, which have been shown to mask the effects of exo on asymptotic performance (Chubb, White, Heeger, & Carrasco, 2015) * Changed cue to white because I found black cues to not be very salient in the periphery. |
| 14 | * SFs: 0.5, 1, 2, 4, 8, 11 cpd * Ecc: 0, 3, 6, 12 deg * Gabor size: 4 deg * Tilt: 45 deg * Cue duration: 70 ms * Cue ISI: 30 ms * Stim duration: 120 ms * Resp cue ISI: 100 ms * Cue: pair of green circles (0.35 deg radius) * Cue-to-stim distance: 1.75 deg from upper/lower edge * Monitor distance: 79 cm (distance changed to have enough resolution for high SF while keeping a peripheral eccentricity) | \* **Method of constant stimuli**   * 5 contrast levels centered around threshold estimate, determined using 1-up 1-down staircase set to converge @ 70% correct. * Contrast levels have 0.05 log-unit spacing (4 levels had the above spacing, while 1 level was at 100% contrast) * >=40 trials per contrast level   \* All conditions interleaved | * Contrast spacing was too small. Did not sample dynamic range of PF. * Changed to method of constant stimuli to reduce variability in data acquisition and curve fitting. |
| 13 | * **SFs depended on ecc**   + ***0 deg*: 0.75, 1.5, 3, 4.5, 6, 9, 12, 18**   + ***Others:* 0.375, 0.75, 1.5, 3, 4.5, 6, 9, 12** * **Ecc: 0, 3.5, 7, 14 deg** * Gabor size: 6 deg * Tilt: 4 deg * Cue duration: 40 ms * Cue ISI: 60 ms * Stim duration: 50 ms * Resp cue ISI: 60 ms * Cue: pair of black circles (0.35 deg radius) * Cue-to-stim distance: 1.75 deg from upper/lower edge * Monitor distance: 57 cm | \* 2-down 1-up staircases   * 0.1 log step down * 0.1822 log step up * 80% performance convergence * 40 trials/staircase * 4 staircases completed * 320 trials/condition (after collapsing across hemifield) * **5 trials/staircase were placed at 100% contrast to have a good estimate of lapse rate.**   \* All conditions interleaved | * Added more SFs and an extra eccentricity to have better resolution ion data. * Data were fit a PF, but because there was so much variability in the data (due to staircase procedure), the fitting procedure was not reliable. That is, there was a heavy reliance on the initialization point of the optimization procedure; therefore, it was difficult to find the true threshold. * Attention effect was still very weak. * **MAJOR ERROR: Monitor distance and screen resolution made it impossible to correctly present SFs above 9cpd. Therefore, data in those conditions were particularly noisy. *Thank you Antoine for helping me figure this out.*** |
| 12 | * SFs: 0.75, 1.5, 3, 6, 9, 12 * Ecc: 0, 7, 14 deg * Gabor size: 3 deg * Tilt: 4 deg * Cue duration: 40 ms * Cue ISI: 60 ms * Stim duration: 50 ms * Resp cue ISI: 60 ms * Cue: pair of black circles (0.35 deg radius) * Cue-to-stim distance: 1.75 deg from upper/lower edge * Monitor distance: 57 cm | \* 2-down 1-up staircases   * 0.1 log step down * 0.1822 log step up * 80% performance convergence * 40 trials/staircase * 4 staircases completed * 320 trials/condition (after collapsing across hemifield) * **half the time staircases started at a low contrast (0.05%) and the other half, they started at a higher contrast (20%)**   \* All conditions interleaved | * Could not adequately capture lapse rate. * Unconstrained PF fits. * Weak and inconsistent attention effect across 5 subjects. * The hope was that by having two different starting levels, I would adequately sample the dynamic range of PF…this didn’t end up being too helpful. |
| 11 | * SFs: 0.75, 1.5, 3, 6, 9, 12 * Ecc: 0, 7, 14 deg * Gabor size: 3 deg * Tilt: 4 deg * Cue duration: 40 ms * Cue ISI: 60 ms * Stim duration: 50 ms * Resp cue ISI: 60 ms * **Cue: pair of black circles (0.35 deg radius)** * Cue-to-stim distance: 1.75 deg from upper/lower edge * Monitor distance: 57 cm | \* 2-down 1-up staircases   * 0.1 log step down * 0.1822 log step up * 80% performance convergence * 40 trials/staircase * 4 staircases completed * 320 trials/condition (after collapsing across hemifield)   \* All conditions interleaved | * Changing to circular cues seemed to improve attention effect on myself. |