

Design notes

Great article for methods:

<http://www.journalofvision.org/content/13/1/24>

Visual angle of letters:

Boots CRT monitor is 36.5 cm wide. Comfortable sitting distance for AC is 50cm exactly, so use this as viewing distance. Currently, PTB whole-screen window is 1024 pixels wide, so 20.48 px/cm.

NOTE: this size is for use with the boots PC and monitor only! This pixel size is tiny on diego's monitor.

Strasburger & Malania used 4 deg. eccentricity targets

4 deg. at 50cm on the boots CRT monitor: $3.49\text{cm} = 71.47\text{px} \sim 71\text{ px}$.

.5 deg at 50cm on boots CRT: $.44\text{cm} = 9.01 \sim 9\text{ px}$.

Can use stimulus width as the distance between flankers.

Plan: scale these numbers up, but keep the ratios.

First try: if boots CRT is 1024 px wide, can go up to almost 512 px eccentricity, $512/71 \sim 7$. So let's scale up by 5 to be safe:

Place target at $71*5 \sim 350\text{ px}$ away from fixation cross (which should be at the center of the monitor)
Make targets $9*5 = 45\text{ px}$ tall and 45 pixels apart.

From:

<https://wiki.anthonycate.org/> - Visual Cognitive Neuroscience

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