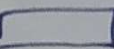7/6/19

| CAPTCHA |

* Completely automated public Turing Test to Tell Computers + Human Apart

① GIMPY → reading/interpreting disordered text, text displayed in different Orientations
* 7 words in " " / duplicated and is expected to identify ne three

② ReCaptcha — Google Books Control word / unknown Word — way to digilize scanned words that are non readable; employed by Google

③ Question Captchas —
   There are 1 Ⓠ, 3 ▭, 4 ⬚ in a box. How many stationeries ▭

④ collage Captchas — click a specific object/(s) from a Collage of images.

⑤ video and Aural Captchas
   enter words from video ↳ uttered distorted words to be entered.

Good CAPTCHA: * Avoids exploitable Variants

words

Good CAPTCHA :- * Avoids exploitable Variants
* Segmentation resistant *
"IMPACTS USABILITY"

Proposal:- (i) Background — High Contrast better readability
black text on white B/g — optimal legibility
"positive text" — v/v → negative text

(ii) # of confusing characters :- $0 - O$; $2 - Z$; $b - 6$
$5 - S$; $1 - l$, $vv - \omega$, $m - m$;

(iii) curved stray lines — affects readability; but
increases security

(iv) g and j ; $b - p$ } aural confusing pairs

(a) Count of NO of Confusing Chars $\propto \dfrac{1}{usability}$ (c)

(b) Distortion level (d) $\propto \dfrac{1}{usability}$ (d)

(c) Noise line Count (l) $\propto \dfrac{1}{u}$ (l)