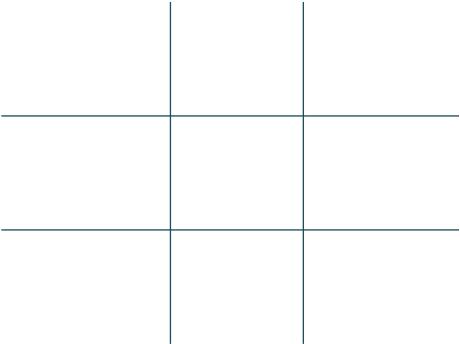
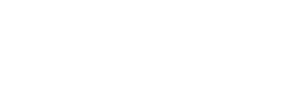


WINKLER AND SMITH







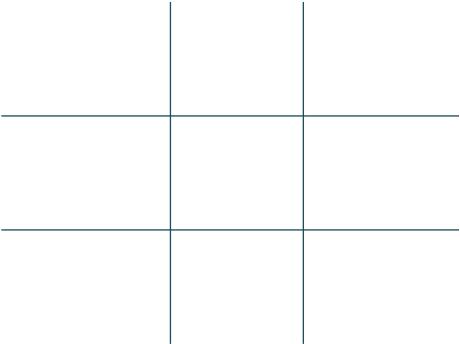




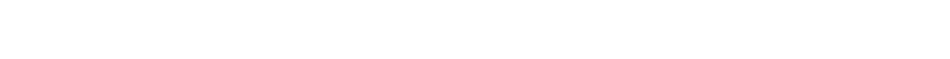


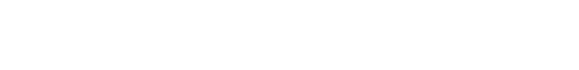












WINKLER AND SMITH

	Gold Positive	Gold Negative
Test Positive	A+1	В
Test Negative	С	D

$$p'_{+} = \frac{A + C + 1}{A + B + C + D + 1}$$

$$s'_{+} = \frac{A+1}{A+C+1}$$

$$t'_{+}=t$$

	Gold Positive	Gold Negative
Test Positive	Α	B+1
Test Negative	С	D

$$p'_{-} = \frac{A + C}{A + B + C + D + 1}$$

$$s'_{-} = s$$

$$t'_{+} = \frac{D}{B+D+1}$$

$$\Pr(D \mid +) = f(p'_{+}, s'_{+}, t'_{+}) \Pr(D \mid +, p, s, t) +$$

$$f(p'_{-}, s'_{-}, t'_{-}) \Pr(\neg D \mid +, p, s, t)$$

$$\Pr(D \mid +, p, s, t) = \frac{ps}{ps + (1 - p)(1 - t)}$$

$$\Pr(\neg D \mid +, p, s, t) = 1 - \Pr(D \mid +, p, s, t)$$

$$f(p, s, t) = f_j(p) f_j(s) f_j(t)$$

LOGICAL FLAW