

## Evaluative Comparison of Two Names

“Kathy”  $\Leftrightarrow$  “Katherine”

step 1) find common characters: “Kathy”  $\Leftrightarrow$  “Katherine”

step 2) proportion of common on original: “Kathy”  $4/5 \Leftrightarrow$  “Katherine”  $4/9$

step 3) get average of two from step 2:  $(4 / 5 + 4 / 9) / 2 = 0.6222$

step 4) get common set of the two words: “kath”  $\Leftrightarrow$  “kath”

step 5) one side inclusion gets 0.5: “kath”  $\Leftrightarrow$  “kath” is mutual inclusion so  $0.5 * 2 = 1$

step 6) calc final score by proportion:  $(0.622 * 80\%) + (1 * 20\%) = 0.6976$

## Evaluative Comparison of Two Names

“Gomez-Alexander”  $\Leftrightarrow$  “Gomez Alexander”

step 1) find common characters: “gomez-alexander”  $\Leftrightarrow$  “gomez alexander”

step 2) proportion of common on original:  $14/15 \Leftrightarrow 15/15$

step 3) get average of two from step 2:  $(14/15 + 15/15) / 2 = 0.9667$

step 4) get common set of the two words: “gomrzalxandr”  $\Leftrightarrow$  “gomrzalxandr”

step 5) one side inclusion gets 0.5: “gomezalexander”  $\Leftrightarrow$  “gomezalexander” is mutual inclusion so  $0.5 * 2 = 1$

step 6) calc final score by proportion:  $(0.9667 * 80\%) + (1 * 20\%) = 0.9733$