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|  | **Truth\_Gender** | **Truth\_Age** | **Acc\_Gender** | **Acc\_Age** |
| **Main effect of valence**  (paired t-test) | Positive>negative (t[256] = 3.90 , p = .000) | Positive>negative  (t[251] = 6.51 , p = .000) | Positive>negative  (t[256] = 8.89 , p =.000) | Positive>negative  (t[251] = 10.98 , p = .000) |
| **Interaction effect: valence\*membership**  (repeated ANOVA) | (F[1,256] = 7.47, p = .007) | (F[1,143] = 5.86, p = .017) | (F[1,256] = 9.59,  p = .002) | (F[1,143] = 3.28, p =.072) |
| **Planned contrasts** | Ingroup: Positive>negative (t[511.61] = -4.72 , p = .000) | Ingroup: Positive>negative (t[362.63] = 5.71 , p = .000) |  |  |
| Outgroup: Positive>negative (t[511.61] = -0.80 , p = .424) | Outgroup: Positive>negative (t[362.63] = 2.28 , p = .023) |  |  |
| Positive:  ingroup>outgroup  (t[486.33] = -2.53 , p = .012) | Positive: ingroup>outgroup  (t[264.78] = 0.82 , p = .416) | Positive: ingroup>outgroup  (t[495.55] = 1.47 , p = .143) | Positive: outgroup>ingroup  (t[278.45] = 1.49 , p = .138) |
| Negative: outgroup>ingroup  (t[486.33] =  1.75 , p = .081) | Negative: outgroup>ingroup  (t[264.78] = -3.06 , p = .002) | Negative: outgroup>ingroup  (t[495.55] = -3.29 , p = .001) | Negative: outgroup>ingroup  (t[278.45] = -1.28 , p = .202) |
|  |  |  |  |  |

Pre-registered analysis

▇ Significant

▇ Marginally significant

Exploratory analysis: Truth & Acc

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|  | Truth\_  gender | | Truth\_  age | | Acc\_  gender | | Acc\_  age | | |
| Mixed Mixed 3-way  Interaction:  Consistency\*  Valence\*  Membership | (F[1,255] = 0.76, p = .383) | | (F[1,142] = 1.92, p = .168) | | (F[1,255] = 0.02, p = .901). | | (F[1,142] = 1.85, p = .176) | | |
| Significant simple effects under Mixed 3-way interaction | Main effect of valence | Stereotypical:  (F[1,132] = 2.47, p = .118) | Main effect of valence | Stereotypical:  F[1,132] = 119.06, p = .000 | Main effect of valence | Stereotypical:  (t[132] = 46.35, p = .000) | Main effect of valence | Stereotypical:  (F[1,132] = 158.69, p = .000) | |
| Counter-  stereotypical:  (F[1,123] = 20.00, p = .000) | Counter-  stereotypical:  F[1,116] = 5.37, p =.022 | Counter-  stereotypical:  (t[1]= 32.79, p= .000) | Counter stereotypical:  (F[1,116] = 23.71, p =.000) | |
| Interaction effect：  Valence\* membership | Stereotypical:  (F[1,132] = 5.48, p = .021) | Interaction effect：  Valence\* membership | Stereotypical:  F[1,80] = 0.77, p = .384 | Interaction effect：  Valence\* membership | Stereotypical:  (F[1,132] = 3.86, p = .052) | Main effect of membership | Stereotypical:  (F[1,80] = 0.03, p = .876) | |
| Counter-  stereotypical:  (F[1,123] = 2.07, p = .153) | Counter-  stereotypical:  F[1,62] = 7.69, p =  .007 | Counter-  stereotypical:  (F[1,123] = 6.23, p= .014) | Counter stereotypical:  (F[1,62] = 0.03, p = .953) | |
| Mixed 3-way  Interaction:  Format\*  Valence\*  Membership | (F[1,255] = 0.51, p = .476) | | (F[1,142] = 1.71, p = .193) | | (F[1,255] = 0.92, p = .338) | | (F[1,142] = 0.25, p = .614) | | |
| Significant simple effects under Mixed 3-way interaction | Main effect of valence | Implicit:  F[1,124] = 59.03, p = .000 | Main effect of valence | Implicit:  (t[123] = 56.53, p = .000) | Main effect of valence | implicit:  (t[124] = 118.45, p = .000) | Main effect of valence | | Implicit:  (F[1,123] = 116.41, p = .000) |
| Explicit:  F[1,131] = 7.31, p = .008 | Explicit:  (t[125] = 22.06, p = .000) | Explicit:  (t[131] = 1.51, p =  .221) | Explicit:  (F[1,125] = 40.75, p = .000) |
| Interaction effect:  Valence\*Membership | Implicit:  F[1,124] = 2.55, p = .113 | Interaction effect:  Valence\*Membership | Implicit:  F[1,67] = .846, p = .361 | Interaction effect:  Valence\*  Membership | Implicit:  (t[124] = 1.84, p = .177) | Main effect of membership | | Implicit:  (F[1,67] = 0.04, p = .839) |
| Explicit:  F[1,131] = 4.90, p = .029 | Explicit:  F[1,75] = 5.26, p = .025 | Explicit:  (t[131] = 10.01, p = .002) | Explicit:  (F[1,75] = 0.00, p = .973) |

Exploratory analysis: Fam& Ster&Posi

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|  | Fam\_  gender | Fam\_  age | Ster\_  gender | Ster\_  age | Posi\_  gender | Posi\_  age |
| Main effect of membership | (t[255] =  -0.48 , p = .632) | (t[143] =  0.08 , p = .935) | (t[255] = -0.19 , p = .849) | (t[143]= 0.78 , p = .439) | (t[256] = -1.58 , p = .116) | (t[143] =  0.22 , p = .825) |
| Interaction:  Valence\*  membership | (F[1,256] = 0.86, p = .354). | (F[1,143] = 2.66, p = .105) | (F[1,256] = 0.14, p = .711) | (F[1,143] = 0.37, p = 0.543) | (F[1,256] = 13.93, p =  .000) | (F[1,143] = 2.68, p = .104) |
| Significant simple effects under 2-way interaction |  |  | Main effect of valence:  Ingroup: (t[506] = -2.65 , p = .008)  Outgroup:  (t[506] = -2.096 , p = .037) | Main effect of valence:  Ingroup: (t[367] = -1.79 , p = .075)  Outgroup:  (t[367] = -2.64 , p = .009) | Main effect of valence:  Ingroup: (t[350] = 16.95 , p = .000)  outgroup (t[350] = 13.96 , p = .000) | Main effect of valence:  Positive>negative:  ingroup (t[315] = 14.65 , p = .000)  outgroup (t[315] = 13.50 , p = .000). |
| Main effect of membership:  Negative:  (t[508] = 1.68 , p = .094)  Positive:  (t[508] = -3.82 , p = .000) |
| Mixed 3-way  Interaction:  Consistency\*  Valence\*  Membership | (F[1,255] = , p = .569) | (F[1,142] = 12.16, p = .001) | (F[1,255] = 0.15, p = .702) | (F[1,142] = 10.81, p = .001) | (F[1,255] = 0.01, p = .941) | (F[1,142] = 0.19, p = .891) |
| Significant simple effects under Mixed 3-way interaction |  | Main effect  of valence:  Stereotypical:  (F[1,132] = 4.82, p = .030)  Counter stereotypical:  (F[1,116] = 0.07, p = .787) | Main effect  of valence:  Stereotypical:  (F[1,132] = 2.91, p = .091)  Counter stereotypical:  (F[1,123] = 9.97, p = .002) | main effect of valence  Stereotypical: (F[1,132] = 3.05, p = .083)  counter stereotypical:  (F[1,116] = 0.16, p = .694) | main effect of valence  Stereotypical: (F[1,132] = 156.97, p = .000)  counter stereotypical:  (F[1,123] = 127.17, p =  .000) | main effect of valence  ster: valence:(F[1,132] = 261.38, p = .000)  counter: valence:(F[1,116] = 99.04, p = .000) |
| Interaction:  Valence\*  Membership  Stereotypical:  (F[1,80] = 1.15, p = .287)  Counter stereotypical:  (F[1,62] = 12.88, p = .001) | Interaction:  Valence\*  Membership  Stereotypical:  (F[1,80] = 2.74, p = .102)  Counter stereotypical:  (F[1,62] = 8.96, p =  .004) | Interaction:  Valence\*  Membership  Stereotypical:(F[1,132] = 6.18, p = .014)  Counter stereotypical:  (F[1,123] = 8.25, p  = .005) |
| Mixed 3-way  Interaction:  Format\*  Valence\*  Membership | (F[1,255] = 0.27, p = .601) | (F[1,142] = 0.00, p = .998) | (F[1,255] = 0.27, p = .601) | (F[1,142] = 0.02, p = .888) | (F[1,255] = 0.24, p = .625) | (F[1,142] = 0.31, p = .578) |
| Significant simple effects under Mixed 3-way interaction | main effect of valence  Implicit:  (F[1,124] = 1.66, p = .200)  Explicit:  (F[1,131] = 10.37, p = .002) | main effect of valence  Implicit:  (F[1,123] = 0.19, p = .665)  Explicit:  (F[1,125] = 6.26, p = .014) | main effect of valence  Implicit:  (F[1,124] = 3.89, p = .051)  Explicit:  (F[1,131] = 11.95, p = .001) |  | main effect of valence  Implicit:(F[1,124] = 290.65, p = .000)  explicit:(F[1,131] = 80.18, p = .000) | main effect of valence  Implicit:(F[1,123] = 322.09, p = .000)  explicit:(F[1,125] = 93.25, p = .000) |
| Interaction:  Valence\*  Membership  implicit:(F[1,124] = 5.34, p = .022)  Explicit:(F[1,131] = 8.63, p =.004) | Interaction:  Valence\*  Membership  implicit:(F[1,67] = 2.84, p = .096)  explicit:(F[1,75] = 0.56, p = .458) |