# Comparison of Versions of Kinship Links

## Joe Rodger's BG Team

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**Newer Links Version**: 81; **Older Links Version**: 80;

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Newer Links: Slightly demotes priority of AlwaysLivedWithBothBioparents
Older Links: Slightly promotes priority of AlwaysLivedWithBothBioparents
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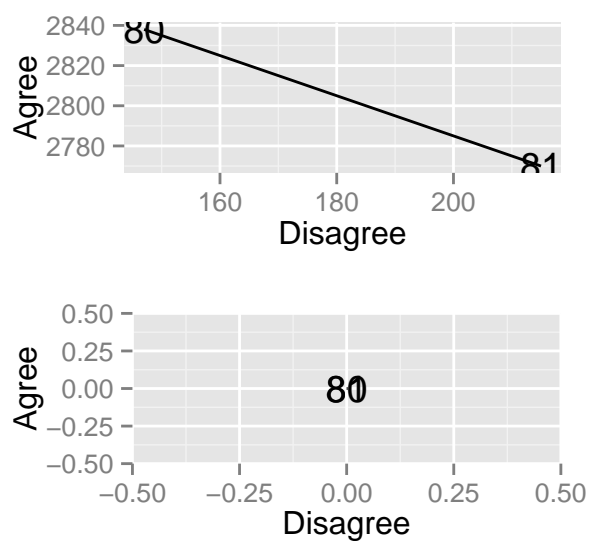


Figure 1: ROC for Gen1Housemates (left) and Gen2Siblings (right)

| R | Implicit2004 | Implicit | Roster | Explicit | Eventual |
|---|---|---|---|---|---|
| 0 | - | 190 | 478 | 41 | 555 |
| 0.0625 | - | - | - | 2 | 47 |
| 0.125 | 76 | - | 96 | - | 96 |
| 0.25 | 43 | 166 | - | 273 | 297 |
| 0.375 | 310 | - | - | 37 | 15 |
| 0.5 | 1877 | 3530 | - | 3598 | 4006 |
| 0.75 | 32 | - | - | - | 11 |
| 1 | - | - | - | - | 11 |
| - | 2964 | 1416 | 4728 | 1351 | 264 |

Table 1: Counts for Gen1Housemates

| R | Implicit2004 | Implicit | Roster | Explicit | Eventual |
|---|---|---|---|---|---|
| 0 | - | 82 | 478 | 41 | 539 |
| 0.0625 | - | - | - | 2 | 47 |
| 0.125 | 76 | - | 96 | - | 96 |
| 0.25 | 43 | 33 | - | 273 | 274 |
| 0.375 | 310 | - | - | 37 | 15 |
| 0.5 | 1877 | 3771 | - | 3598 | 4045 |
| 0.75 | 32 | - | - | - | 11 |
| 1 | - | - | - | - | 11 |
| - | 2964 | 1416 | 4728 | 1351 | 264 |

Table 2: Counts for Gen1Housemates (Previous version of links)

| R | Implicit2004 | Implicit | Explicit | Eventual |
|---|---|---|---|---|
| - | 0 | 0 | 0 | 0 |

Table 3: Counts for Gen2Siblings

| R | Implicit2004 | Implicit | Explicit | Eventual |
|---|---|---|---|---|
| - | 0 | 0 | 0 | 0 |

Table 4: Counts for Gen2Siblings (Previous version of links)

| Count | RImplicit2004 | RImplicit | RExplicit | RRoster | Delta |
|---|---|---|---|---|---|
| 1446 | 0.500 | 0.500 | 0.500 | - | -31 |
| 1245 | - | 0.500 | 0.500 | - | -42 |
| 501 | - | - | 0.500 | - | 0 |
| 244 | - | - | - | - | 0 |
| 206 | - | 0.500 | - | - | -30 |
| 206 | 0.500 | 0.500 | - | - | -9 |
| 177 | 0.375 | - | 0.500 | - | 0 |
| 148 | - | - | 0.250 | - | 0 |
| 120 | - | 0.500 | - | 0.000 | -78 |
| 99 | - | - | - | 0.000 | 0 |
| 75 | - | 0.000 | - | 0.000 | 50 |
| 72 | 0.500 | 0.500 | - | 0.000 | -28 |
| 64 | - | 0.500 | 0.250 | - | -7 |
| 43 | - | 0.250 | 0.500 | - | 36 |
| 41 | 0.375 | - | - | - | 0 |
| 39 | 0.375 | 0.500 | 0.500 | - | 0 |
| 33 | - | 0.250 | - | 0.000 | 28 |
| 32 | - | 0.000 | - | - | 13 |
| 29 | 0.500 | 0.250 | 0.500 | - | 21 |
| 27 | 0.500 | - | 0.500 | - | 0 |
| 22 | 0.125 | 0.500 | - | 0.125 | -7 |
| 19 | 0.125 | - | - | 0.125 | 0 |
| 18 | 0.500 | 0.500 | 0.250 | - | 0 |
| 18 | - | - | 0.000 | - | 0 |
| 17 | 0.375 | - | 0.250 | - | 0 |
| 17 | - | 0.250 | - | - | 17 |
| 16 | 0.500 | 0.000 | - | 0.000 | 16 |
| 15 | 0.500 | - | - | - | 0 |
| 15 | - | - | 0.375 | - | 0 |
| 14 | - | 0.000 | 0.500 | - | 6 |
| 14 | 0.500 | 0.250 | - | 0.000 | 12 |
| 13 | 0.250 | - | 0.500 | - | 0 |
| 12 | 0.750 | 0.500 | 0.500 | - | 0 |
| 11 | - | 0.500 | - | 0.125 | -3 |
| 11 | - | 0.500 | 0.375 | - | 0 |
| 10 | 0.125 | - | 0.500 | - | 0 |
| 10 | - | - | - | 0.125 | 0 |
| 10 | 0.500 | 0.000 | 0.500 | - | 10 |
| 9 | - | 0.500 | 0.000 | - | 0 |
| 9 | - | 0.000 | - | 0.125 | 4 |
| 9 | - | 0.250 | 0.250 | - | 7 |
| 8 | 0.250 | - | - | 0.000 | 0 |
| 8 | 0.250 | - | - | - | 0 |
| 7 | 0.250 | 0.500 | 0.500 | - | 0 |
| 7 | 0.750 | - | 0.500 | - | 0 |
| 7 | 0.125 | 0.250 | - | 0.125 | 6 |
| 6 | 0.500 | 0.250 | - | - | 5 |
| 5 | 0.375 | 0.000 | 0.500 | - | 0 |
| 5 | 0.375 | - | - | 0.000 | 0 |
| 5 | 0.500 | 0.500 | 0.375 | - | 0 |
| 5 | 0.750 | - | - | - | 0 |
| 5 | - | 0.000 | 0.250 | - | 0 |
| 4 | 0.375 | 0.500 | - | - | -1 |
| 4 | - | 0.250 | - | 0.125 | -1 |
| 4 | 0.125 | 0.500 | 0.500 | - | 0 |
| 4 | 0.375 | 0.000 | - | 0.000 | 0 |
| 4 | 0.375 | 0.500 | - | 0.000 | 0 |
| 4 | 0.375 | - | 0.375 | - | 0 |
| 4 | 0.500 | 0.000 | - | - | 4 |
| 3 | 0.125 | - | - | 0.000 | -0 |
| 3 | 0.125 | - | - | - | 0 |
| 3 | - | 0.000 | 0.000 | - | 0 |
| 3 | - | 0.500 | 0.250 | 0.000 | 0 |
| 2 | 0.750 | 0.500 | - | - | -1 |
| 2 | 0.125 | 0.500 | 0.000 | - | 0 |