



Figure 3: Approximately new song to an empire o million
peo

$$spct_{i,j} = \begin{cases} 1, & \neg af(a_j, g_i) \wedge \neg gf(g_i) \\ 0, & af(a_j, g_i) \wedge \neg gf(g_i) \\ 0, & \neg af(a_j, g_i) \wedge gf(g_i) \end{cases} \quad (1)$$