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associate ranking risto page i in such a way that ri>ri indicates that page i is more highly ranked than page j. Let's require that  $0 \le v; \le 1$  and r, + r2 + · · + r = 1. Define ranking rector 

Furthermore, let's insist that
the ranking of page i should
be proportional to the sum
of the rankings of the pages
linking to page i.

For example,  $r_1 = \alpha(r_2 + r_4 + r_5),$ where & is a constant. We get also  $V_2 = \alpha \left( r_3 + r_4 + r_5 \right)$  $V_3 = \alpha (\Gamma, + \Gamma_4)$ ry = ar5 r= xr3 matrix motation: ア= ×Aア シ Aア= dア