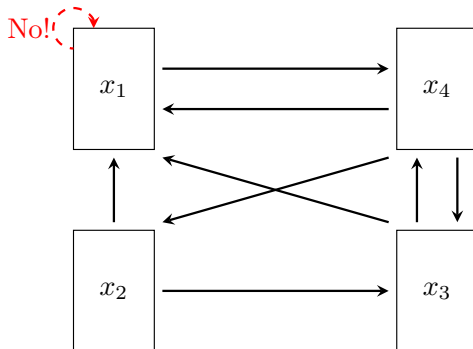


# Web Pages and Directed Networks

The web is a directed graph of webpages (view these as arising from a Google search). Below is an example:



An arrow indicates a link from one page to another, and self-referencing links are not permitted. Each page has an importance indicated by a number  $x_j$ . Our goal here is to find a reasonable way to define this importance value.