MapReduce

The web:

* The web is made of pages
* Each page contains links to other pages
* Notation:
  + x->y means that page x has links to page y
  + cxtis the credit held by page x at time t
  + nx is the number of outgoing links that page x has
* Page rank
* The page rank algorithm is a simulation
  + Initially, each page has a credit of 1
  + At each time step, each page splits it’s credits equally among it’s outgoing links, and sends that credit along the links
* More formally
  + Cy0 =1 for all pages 1
  + Cyt+1=Ex->yCxt|nx for all pages y