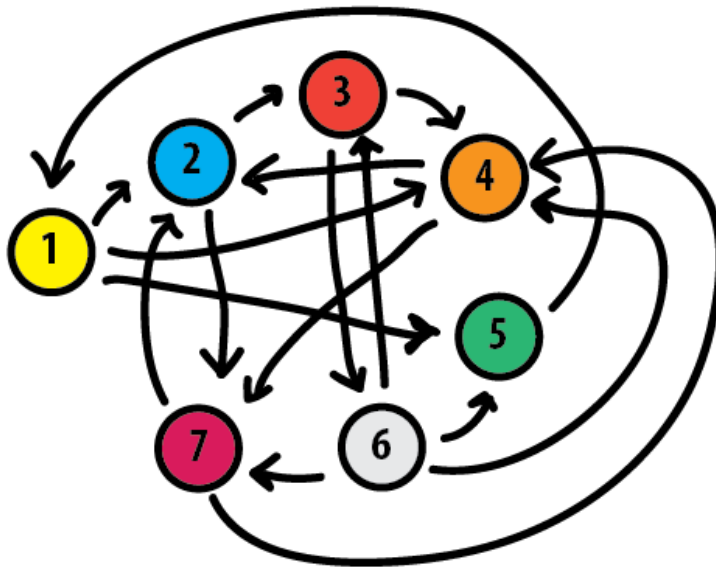


HW 10: Google Page Rank Problems

1. There are seven webpages.

- * What is the Hyperlink Matrix H associated with graph below?
- * What is the vector associated with the eigenvalue 1?
- * Which are the three most important webpages?
- * What are their importances?
- * Find the Google Matrix G . Which are the top three important webpages for G ?



2. There are five webpages.

- * What is the Hyperlink Matrix H ?
- * What is the most important webpage for H ? What is its importance?
(Do these questions ^^^^ even make sense? Explain.)
- * What is H' , as defined in class?
- * What is the most important webpage for H' ? What is its importance?
(Do these questions ^^^^ even make sense? Explain.)
- * Using $p = .15$ as the damping factor, what is the Google Matrix G ?
- * What is the most important webpage for G ? What is its importance?

