<https://www.youtube.com/watch?v=ytjf6zYDd4s&index=11&list=PL9jtZXkx>

Page rank

Solution: Random Teleports

The Google solution for spider traps: At each time step, the random surfer has two options

1. With prob. B, follow a link at random.
2. With prob. 1-B, jump to some random page.
3. Common values for B are in the range 0.8 to 0.9.

Surfer will teleport out of spider trap within a few time steps.

**Three major Information Retrieval Models are:**

1. Boolean models (set theoretic) (*Chapter 1 in Manning et al*)

2. Vector space models (statistical/algebraic) (*Chapter 2 in Manning et al*)

3. Probabilistic models (*Chapter 11 in Manning et al*)