

Taxation

- How to get out of **spider traps**?
 - A random surfer can **leave the graph** at any moment.
 - **New surfers** can be started at any page at any moment.
- **Taxation**: Allow each random surfer a probability $1 - \beta$ of **teleporting** to a random page

$$\vec{v} = \beta M \vec{v} + \frac{(1 - \beta)}{n} \vec{1}.$$

Typically, $\beta \in [0.8 - 0.9]$.