	Announcements
CS 103: Lecture 17 Power Laws and the Rich-Get-Richer Phenomenon Dan Sheldon December 10, 2015	<ul> <li>No HW 7</li> <li>Tuesday: final review</li> <li>Exam will be open book</li> </ul>
Popularity	V → V → V → V → V → V → V → V → V →
How is <i>popularity</i> distributed? How does it arise?	Lettico       *****       Lab         Lettico       *****       Lab         Lettico       ****       10         Lettico       ****       11         cords       *****       11         Lettico       ****       10         Lettico       ****       11         Lettico       ****       10         Lettico       *****       11         Lettico       *****       11         Lettico       *****       12         Lettico       *****       12         Lettico       *****       12         Lettico       *****       12
Popularity	A Model System: Web Pages
How is <i>popularity</i> distributed? Extreme inbalances	Links to a page = votes for it's popularity
<ul> <li>Harry Potter and the Philosopher's Stone: 107 million sales</li> </ul>	What fraction of pages have $k$ links?
<ul> <li>Katy Perry: 78M twitter followers</li> <li>Adele's '25': 1.11M sales in 2 weeks</li> <li>Small fraction of people/things gain immense popularity. What does distribution of "popularity" look like? How does it arise?</li> </ul>	Let $f(k) = \#$ of pages with $k$ links. What is the form of this function?



