



Google web graph

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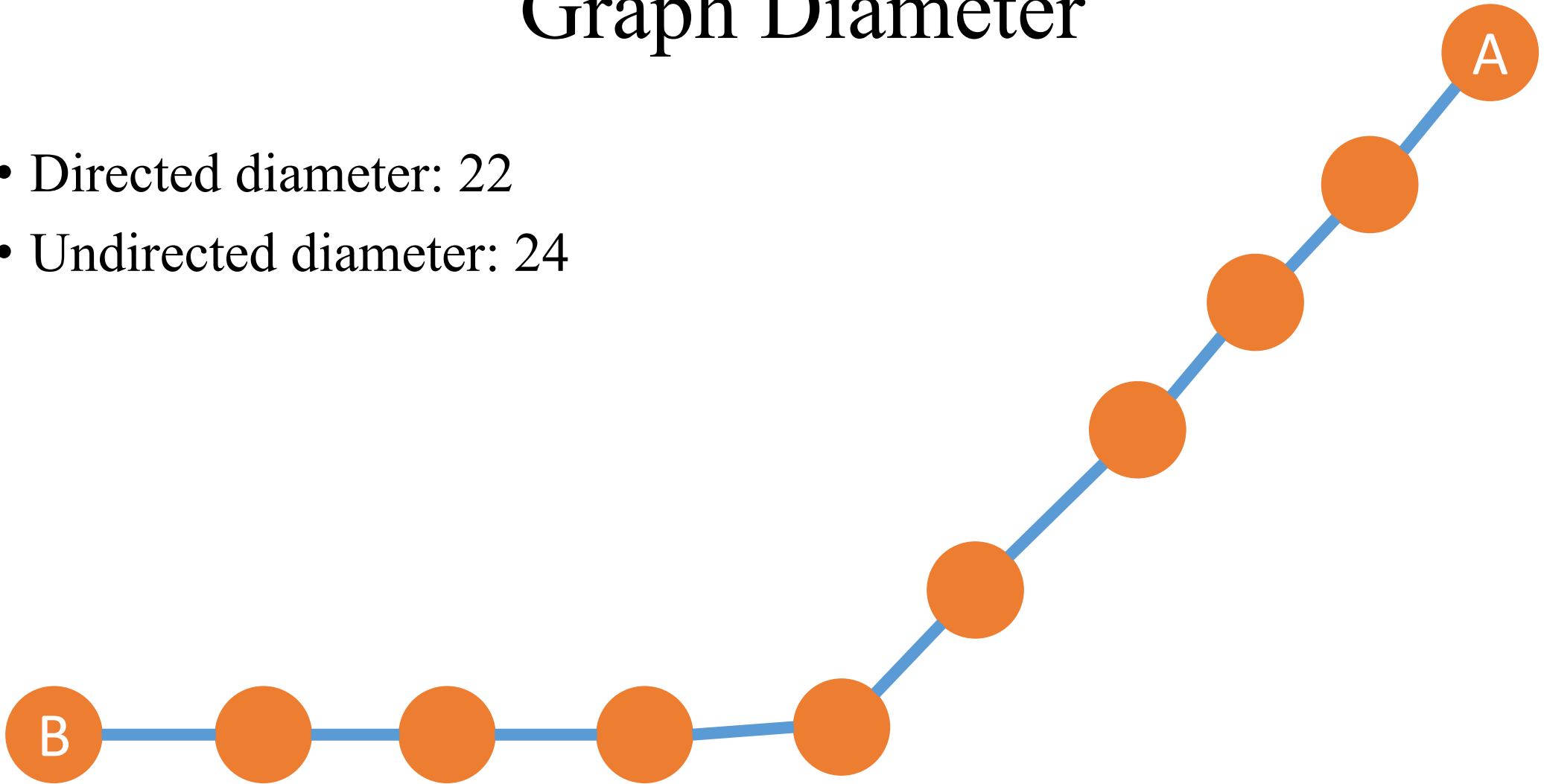
7107056045 范均泓

Dataset Introduction

- 2002 website dataset
- Node  website
- Edge  hyperlink
- Nodes number: 875,713
- Edges number: 5,105,039

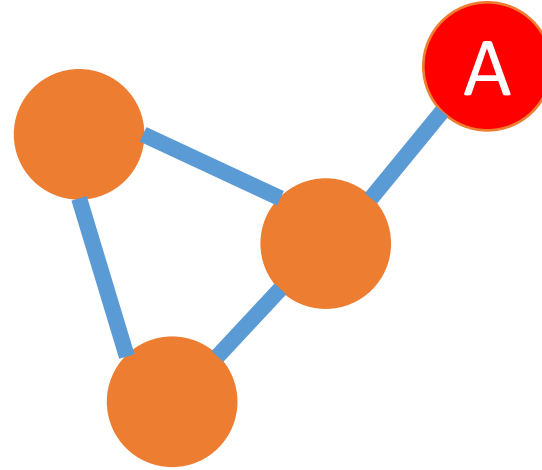
Graph Diameter

- Directed diameter: 22
- Undirected diameter: 24



Graph Average Clustering Coefficient

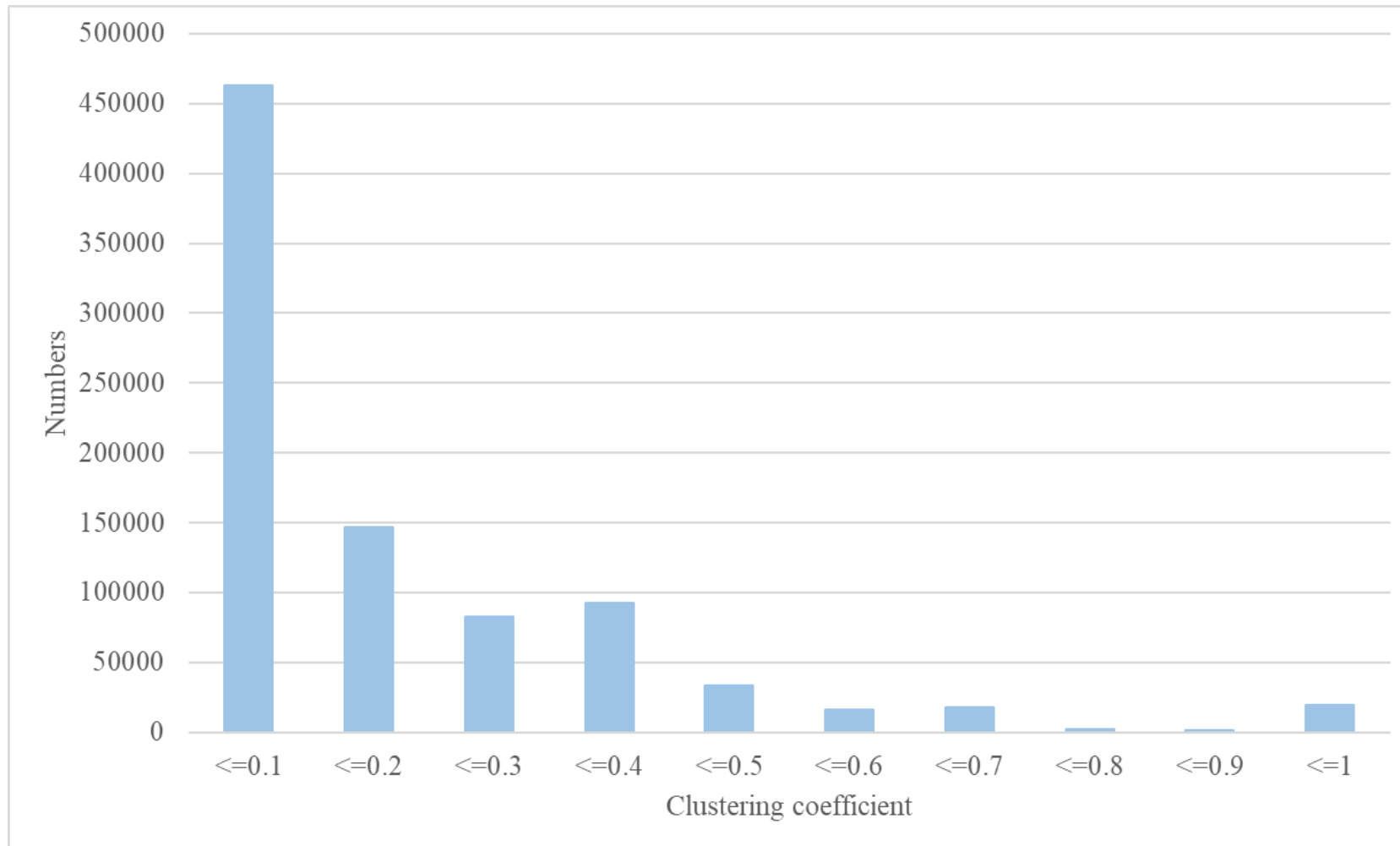
- Average $C_i = 0.160976$
 - Degree為1的Node數: 153,407



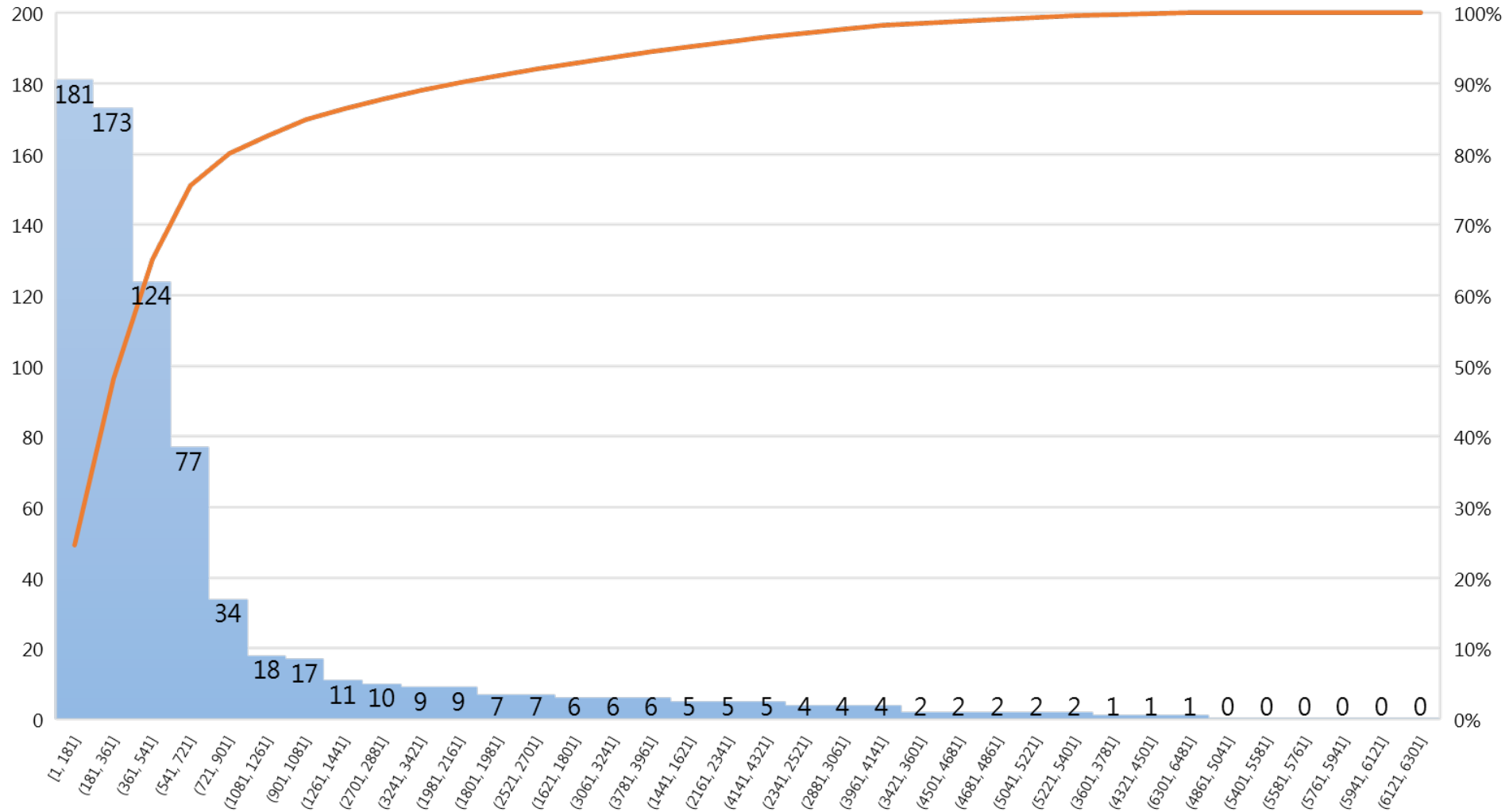
- 扣除Degree為1的Node後Average $C_i = 0.195165$

id	degree	triangles	ci
537039	6332	11296	0.000564
597621	5356	10565	0.000737
504140	5273	11754	0.000846
751384	5192	12178	0.000904
32163	5100	2795	0.000215
885605	4847	11636	0.000991
163075	4741	2629	0.000234
819223	4621	16655	0.00156
605856	4567	8685	0.000833
828963	4488	14232	0.001413

Clustering Coefficient Distribution





Graph Degree Distribution and Avg. Degree





2002 Website Situation

- 2002年時網頁的總數量為38,760,373
- Extended star topology
- 擁有共同hyperlink的網站互有hyperlink的數量極低
- Degree大的網站推測為入口網站
- 有edge相連的nodes應為同質性高的網站
- 不同類型的網站有hyperlink的機率低

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Press coverage:

The New York Times Magazine (December 9, 2001) - *The New York Times* (September 20, 2001) - *MIT's Techreview* (September 4, 2001)

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