FORCE DIRECTED GRAPH

Vasantha kumari kommanapalli
Ahsan Zia
Anuradha Ganapathi Rathnachalam

Protein Prediction II

Agenda

- Introduction
- LiveDemo
- Feedback

INTRODUCTION - OBJECTIVE

1. To visualize large network(>2000 nodes) – using force directed algorithm – distance between the nodes and edges determined by the forces.

2. To optimize the time taken to visualize this large network using web workers (cytoscape.js)

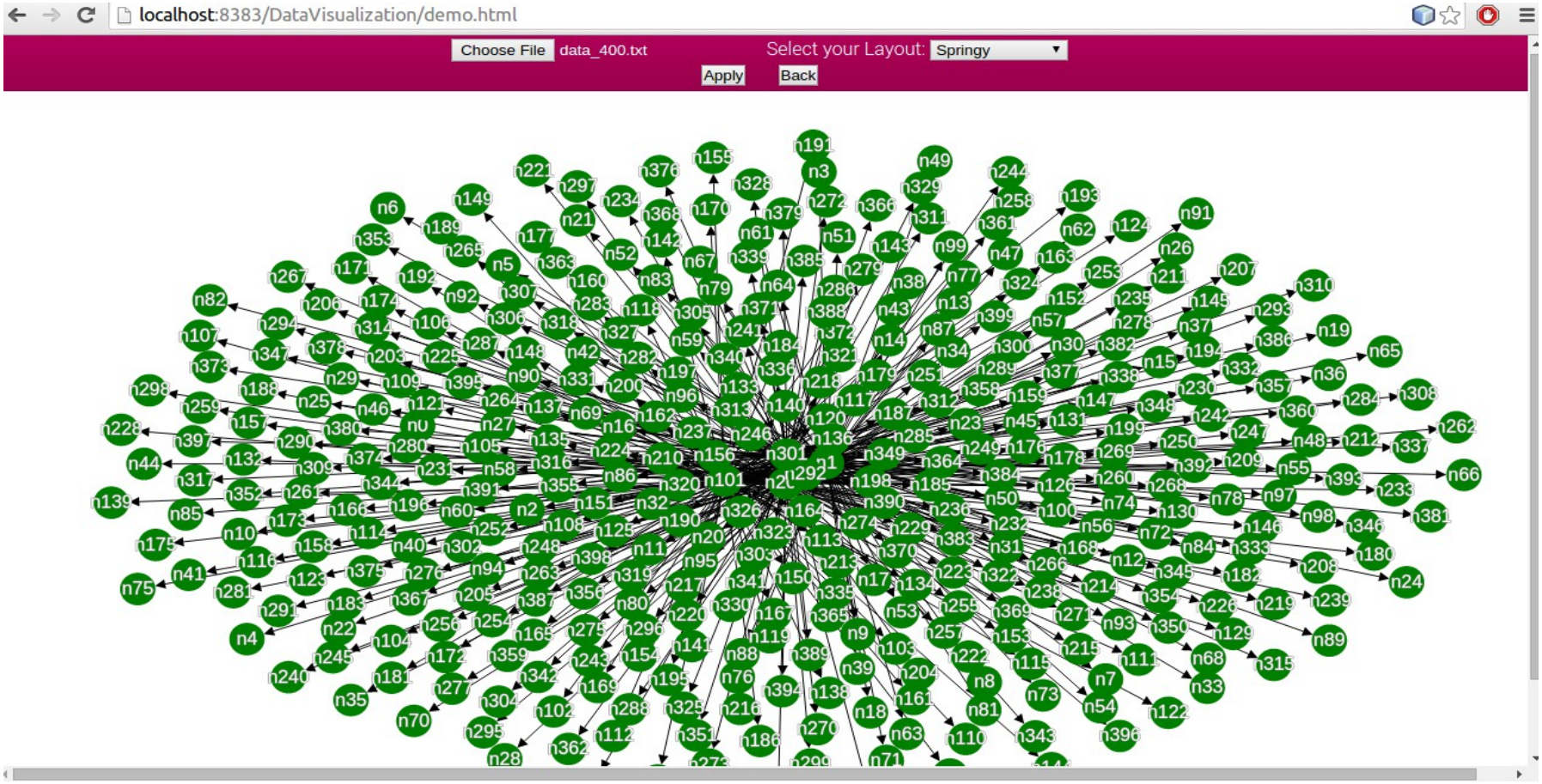
3. Comparison of the time taken for visualization of the large network with and without web workers.

INPUT DATA FOR VISUALISATION

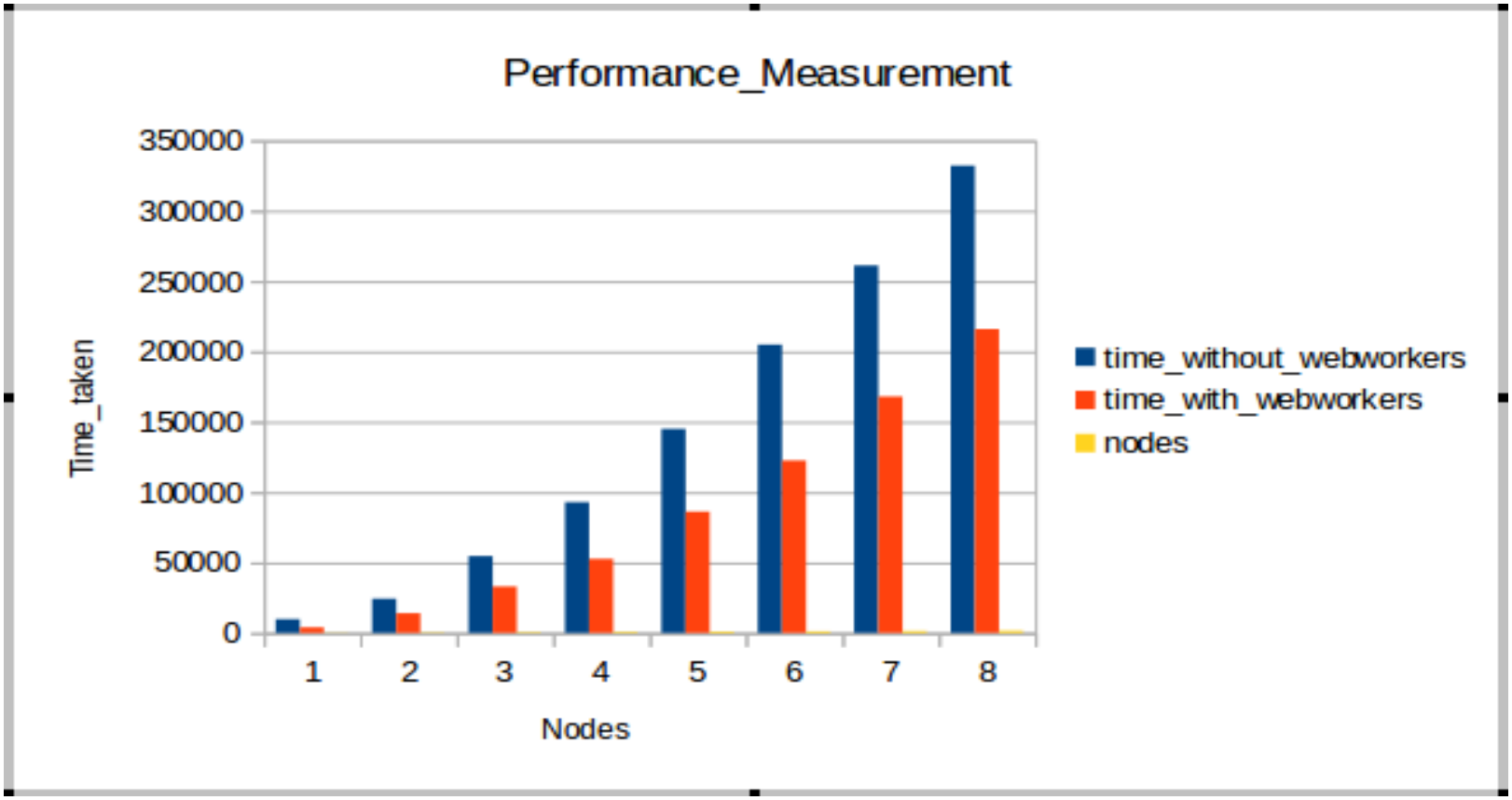
data_3000.txt

```
1	2
1	3
1	4
1	5
1	6
1	7
1	8
1	9
1	10
1	11
1	12
1	13
1	14
1	15
1	16
1	17
1	18
1	19
1	20
1	21
1	22
1	23
1	24
1	25
```

OUTPUT- VISUALIZATION



TIME TAKEN_ WITHOUT AND WITH WEB WORKERS



Resolution 1280x1024 px
Free Photoshop PSD file download
www.psdgraphics.com

QUESTIONS