

*Vito D. P. Servedio*

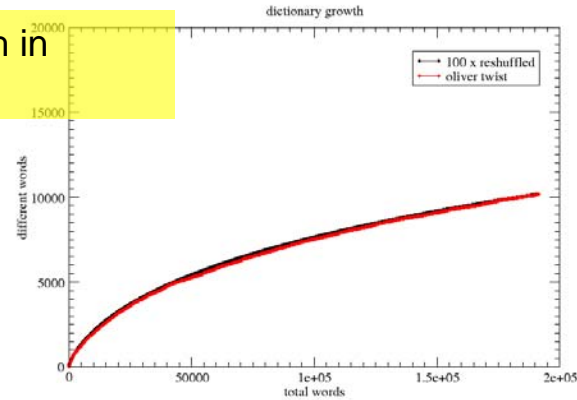
*"La Sapienza" university of Rome, Physics department*

## Interests:

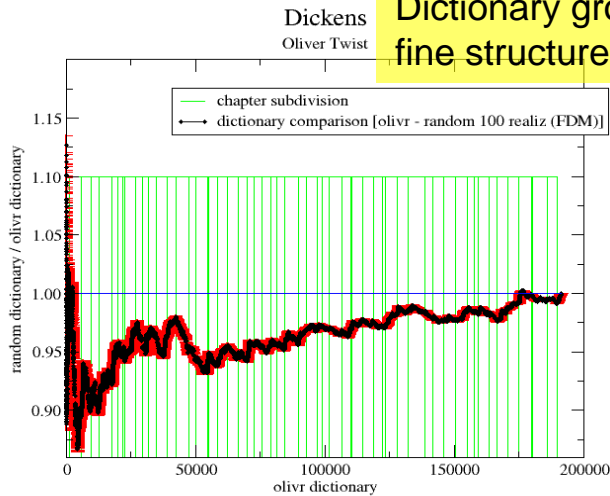
- **Complex networks, Folksonomies**  
Statistical properties, Community detection, modeling
- **Quantitative linguistics**  
Statistical properties of texts, modeling
- **Streams of tokens**  
Interarrival times, token-token correlations

## an example: quantitative linguistics, stream of words/tags

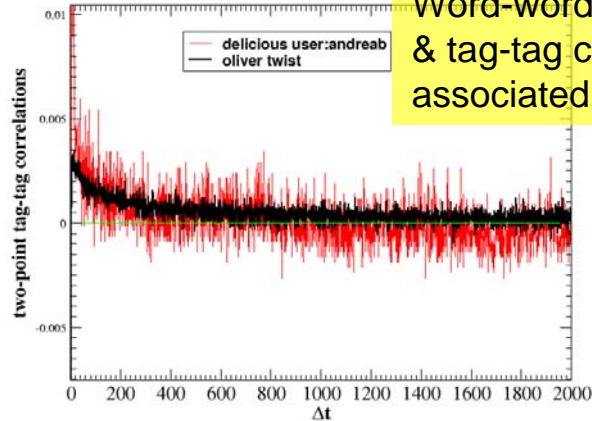
Dictionary growth in "Oliver Twist"



Dictionary growth, fine structure



Word-word correlation in "Oliver Twist" & tag-tag correlation of a stream of tags associated by a single *del.icio.us* user



## underway:

- Connection between interarrival times, burstiness of events, clustering and token-token correlations
- Cross correlations between streams, links between various folksonomies
- Comparison between streams of words (texts) and stream of tags: Selfish or collaborative annotation processes?
- Word semantic content extraction by means of self-correlation patterns

