

# Algorithm of Suffix Tree Construction

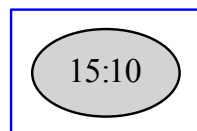
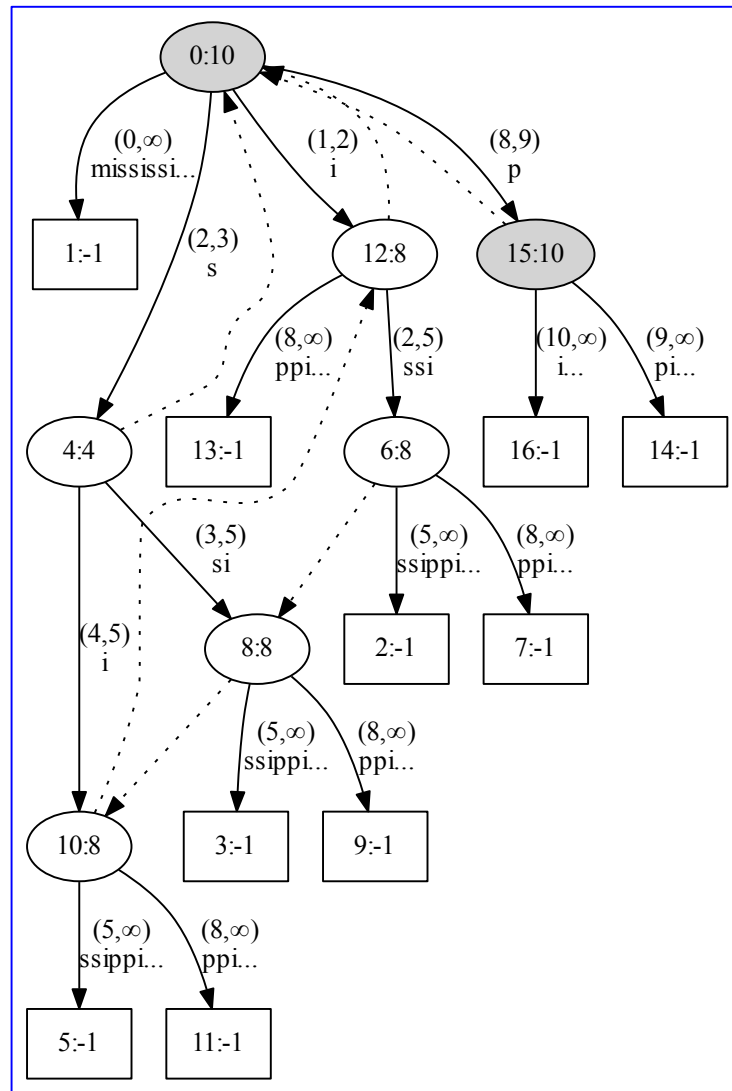
by farseerfc@gmail.com

Jiachen Yang<sup>1</sup>

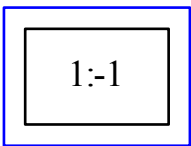
October 14, 2011

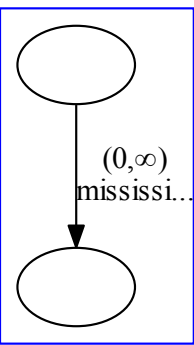
## **1 What I did**

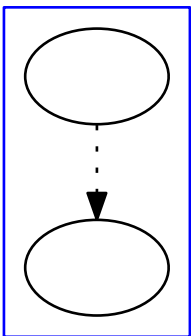
**Algorithm of Constructing Suffix Tree**



- Node (id:generation)

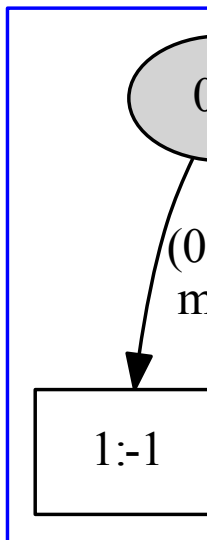
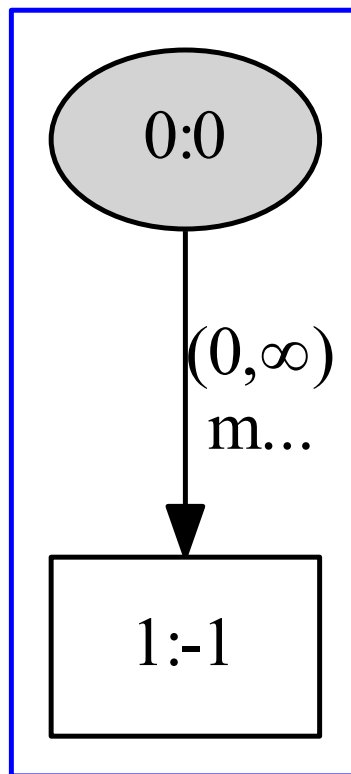
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Leaf
- 

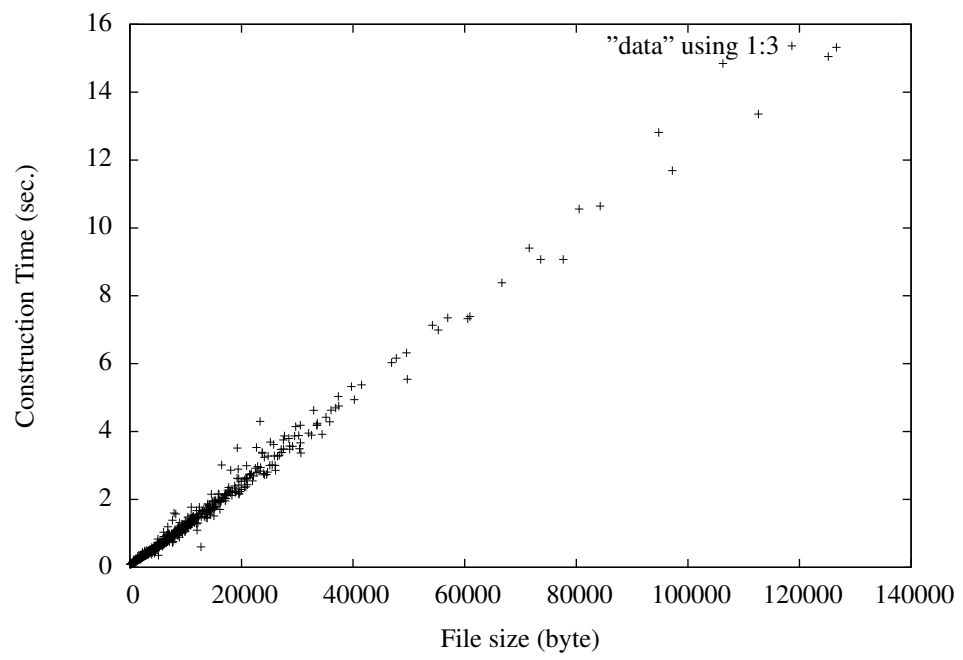
Child-relation
- 

suffix-link relation

**Experiment – mississippi**



Experiment – English text



## 2 Future works

### Works in next week

- Implementing *Longest Common Substring* algorithm using *Generalised Suffix Tree* based on Ukk's algorithm.
- Implementing *Tokenization* on Python codes.
- Implementing *DC3* algorithm of *Suffix Array* and compare their performance.
- Reading and Understanding *n-gram* algorithm and its application in code-clone detection.