Bacharelado em Ciência da Computação Universidade Federal do ABC

Algoritmos e Estruturas de Dados II

AutoComplete com Trie

Allan Holanda Targino

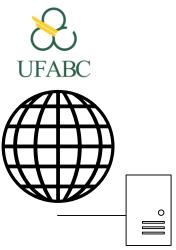
RA: 11061112

Elsio Antunes

RA: 11097612

Dezembro de 2016

Motivação



{ system_alian: { };
 cocssion: "CMCG0000AA",
 schema_version: ?;
 slavnest_cocssions: { };
 slavnest_cocssions: {







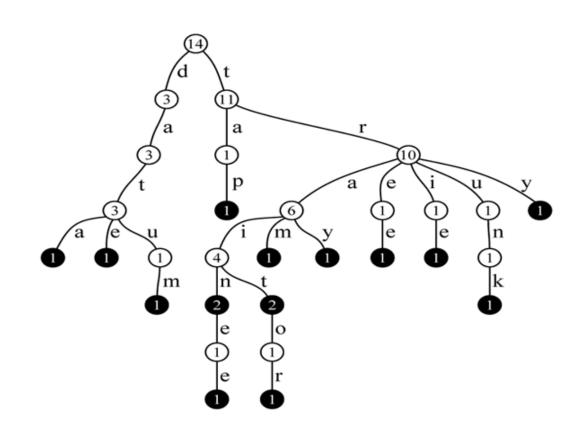
Metodologia

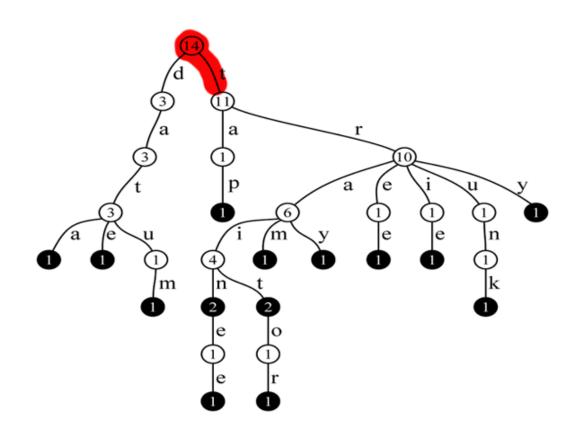
- Linguagem: Javascript
- Estrutura: Trie
- Compactação: LZW

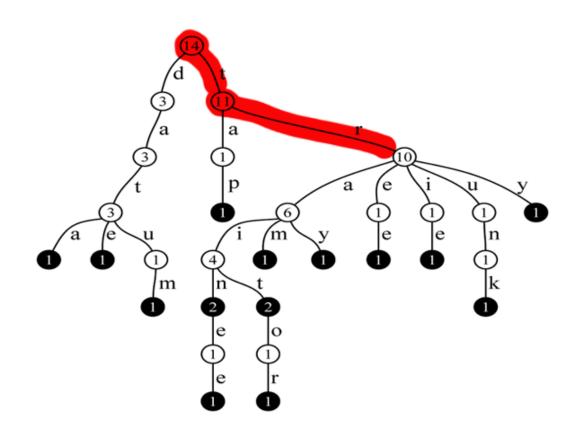
```
try,
trunk,
trie,
tree,
tray,
tram,
traitor,
trait,
trainee,
train,
tap,
datum,
date,
data
```

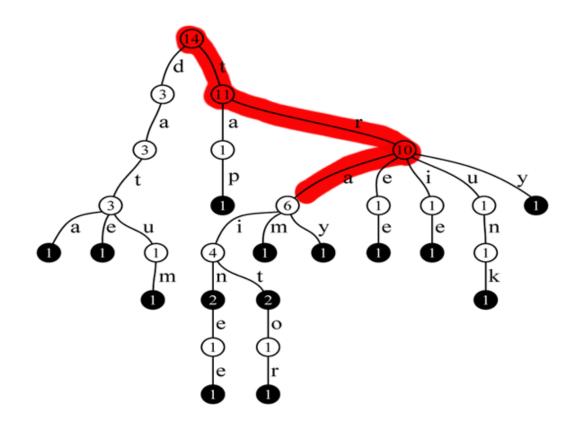
```
String buscalinear(A,str){
    for (i=0; i < size of (A); i++)</pre>
         if(A[i] == str)
              return i;
    return nil;
```

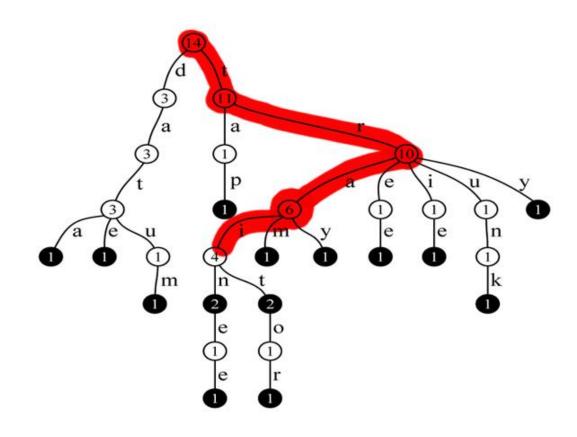
trunk, trainee

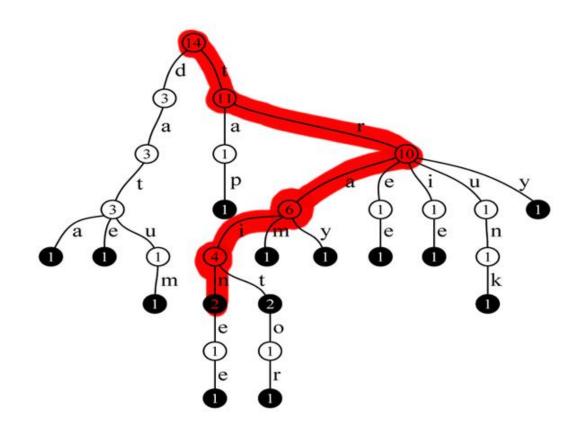


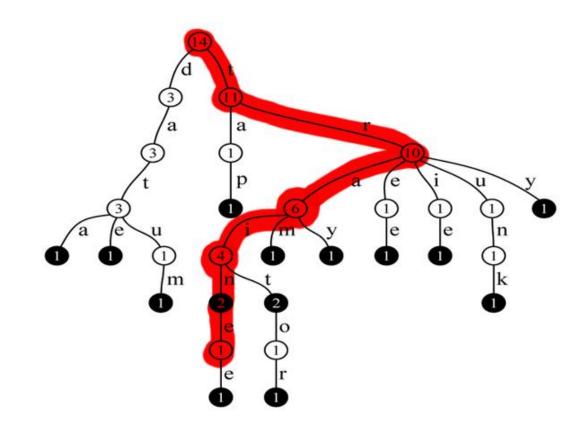












:Bases Matematicas

base

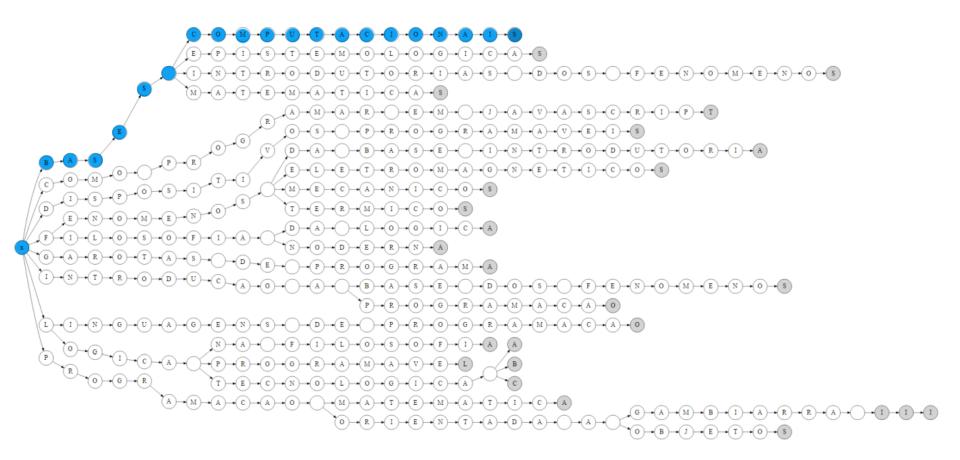
- 1 Base Experimental das Ciencias Naturais
- 2 Bases Biologicas para Engenharia I
- 3 Bases Biologicas para Engenharia II
- 4 Bases Computacionais da Ciencia
- 5 Bases Conceituais da Energia
- 6 Bases Epistemologicas da Ciencia Moderna

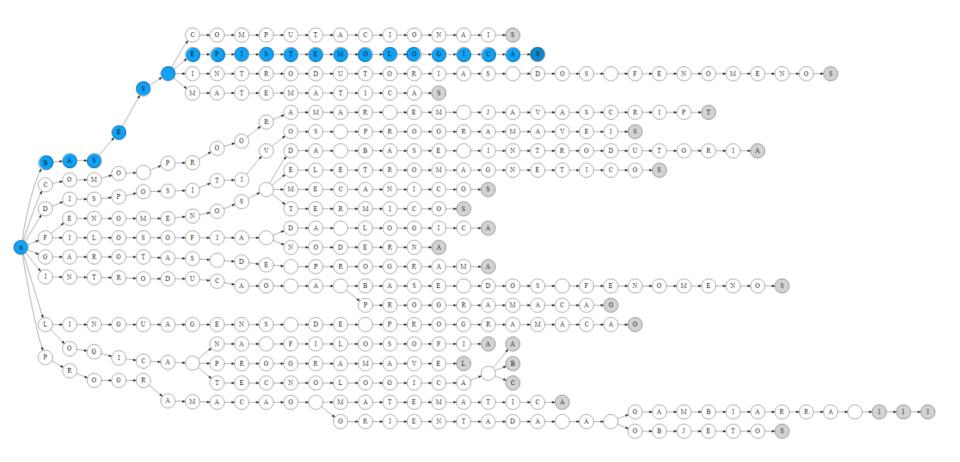
7 Bases Matematicas

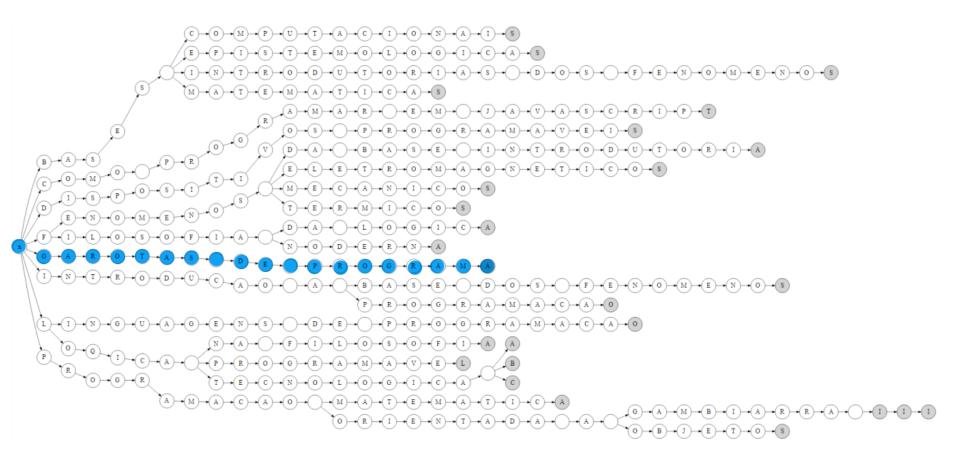
8 Bases Neurais da Motricidade

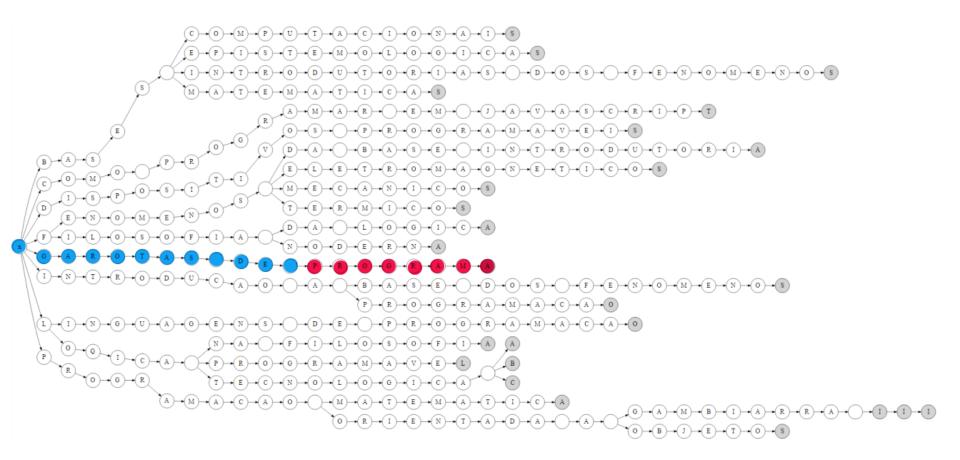
```
void inserir(String str) {
    Node atual = this.root;
    for(int i = 0; i < str.length(); i++) {</pre>
        int k = str.charCodeAt(i);
        if(!atual.letra[k])
             atual.letra[k] = new Node();
        atual = atual.letra[k]
    atual.fim = true;
```

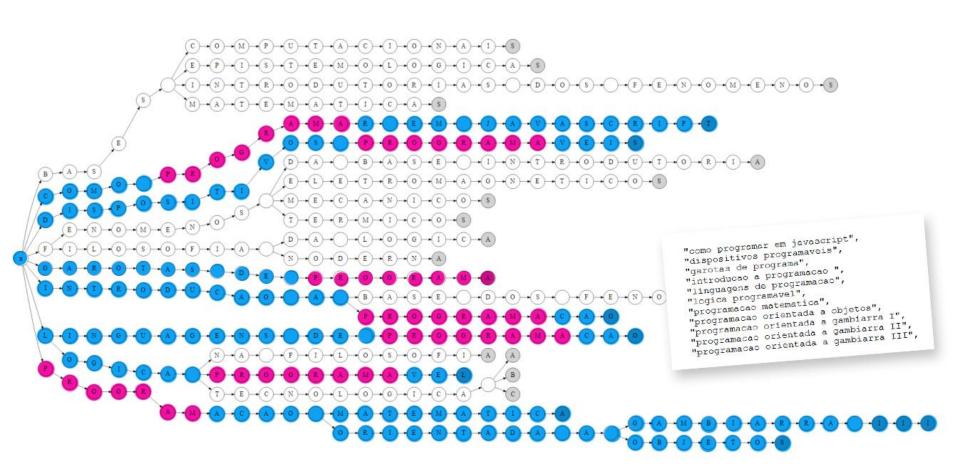
```
void inOrder(node, str) {
    if (node.fim)
        this.out.push(str)
    for (var i=0; i < 256; i++)
        ch = node.letra[i]
        if (ch)
             this.inOrder(ch, str + chr(i))
```











:Morfofisiologia animal comparada

```
animal
```

- 1 Biologia Animal I
- 2 Biologia Animal II
- 3 Biologia Animal III
- 4 Ecologia Animal
- 5 Morfofisiologia animal comparada

Demo bit.ly/melhortrie

Considerações Finais

github.com/elsio/Trie

Obrigado!!!