LaTeX homework

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1 Introduction

This file contains one of the best LaTeX homeworks that ever came from under a human hand. The first section presents a list of my computer and linguistic interest. The second section consists of two phonetic transcriptions: one in English, and the other one in Polish. Third section presents a sentence in form of a tree. In section number four one may find several phonological rules, and the last section number five presents a few mathematical equations.

2 Section 1

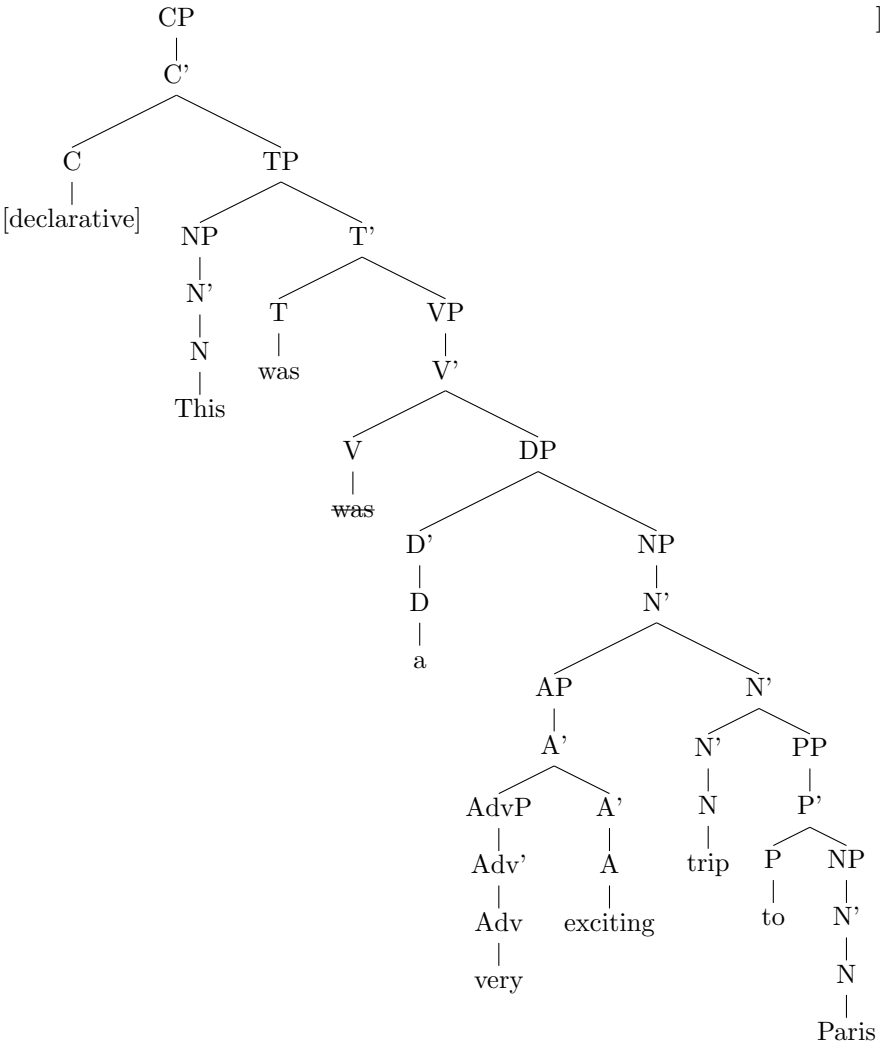
1. The list of my f@vourite topics in computer science:
   - Newest developments of computer science.
   - Hardware updates.
   - Video games.
   - How technology changes our lives.
   - How technology has changed throughout years.
2. The complete list of my f@vourite topic in linguistics:
   - phonetics
   - phonology
   - semantics
   - syntax

3 Section 2

English transcription:
[maɪ neɪm ɪz ˈmæθjuː ɑɪ ˈstʌdi ˈnætʃrəl ˈlæŋgwɪdʒ ˈprɑʊsɛsɪŋ æt ðə juːnɪˈvɜsɪtɪ əv gdansk aɪ æm ˈtwɜnti θri jiəz əʊld ɑɪ kʌm frɒm ə smɔːl ˈvɪlɪdʒ ɪn ə ˈmɪdl ˈpəʊlənd ɑɪ kʌrəntli wɜːk æt ðə ‘weəhəvs bʌt wɜn aɪ grəʊ ʌp aɪ wɒnt tuː biː ə ‘prɛzɪdənt ɒv ðə juˈnaɪtɪd steɪts, maɪ ˈhɒbiz ɑː ˈməʊstli kəmˈpjuːðəz bʌt ˈɔːlsəʊ spɔːt, ˈmjuːzɪk ænd ˈmɛni ˈʌðə θɱz.]

Polsih transcription:
[mam na imʲɛ̃ matɛuʃ ɔd t͡ʃtɛrɛx lat studʲujɛ̃ na uɲɪvɛrsitɛt͡ɕɛ gdaɲscim ɔbɛt͡sɲɛ studʲujɛ̃ pʃɛtfaʒaɲɛ jɛ̃zika naturalnɛgɔ mam dvad͡zʲɛɕt͡ɕa t͡ʃi lata pɔxɔd͡zɛ̃ z mawɛj mʲɛjst͡sɔvɔɕt͡si f ɕrɔtkɔvɛj pɔlst͡sɛ intɛrɛsujɛ̃ ɕɛ̃ kɔmputɛrami grami vidɛɔ muzikɔ̃ ɔras spɔrtɛm ɔstatɲimi t͡ʃasi vʲɛŋkʃɔɕt͡ɕ mɔjɛgɔ vɔlnɛgɔ t͡ʃasu pɔɕfʲɛ̃t͡sam na pɔgwɛ̃bʲaɲɛ mɔjɛj vʲɛd͡zi z zakrɛsu prɔgramɔvaɲa sɛmantiki ɔras naʒɛɲd͡zi̯ lingvistit͡ʃnix]

4 Section 3



This was a very exciting trip to Paris

5 Section 4

Bunch of phonetic rules.

Spirantization

$$\begin{bmatrix} \text{+stop} \\ \text{-voice} \end{bmatrix} \rightarrow \begin{bmatrix} \text{+voice} \\ \text{-stop} \\ \text{+fricative} \end{bmatrix} / \begin{bmatrix} \text{+vowel} \end{bmatrix} \_ \begin{bmatrix} \text{+vowel} \end{bmatrix}$$

$$\begin{bmatrix} \text{+consonant} \\ \text{+nasal} \end{bmatrix} \rightarrow \begin{bmatrix} \text{+short} \end{bmatrix} / \_ \begin{bmatrix} \text{+consonat} \\ \text{-voice} \end{bmatrix}$$

Final Fricative Devoicing:

$$\begin{bmatrix} \text{-sonorant} \\ \text{+continuant} \end{bmatrix} \rightarrow \begin{bmatrix} \text{-voice} \end{bmatrix} / \_\#$$

6 Section5

Those equations, besides the Euler's equation, has nothing in common with NLP. These are random equations that I found in the Inthernet.

First equation:

$$A = \frac{\pi r^2}{2} = \frac{1}{2}\pi r^2 \tag{1}$$

This equation 2 is known as the Euler equation :

$$e^{\pi i} + 1 = 0 \tag{2}$$

Another example of an equation: $\mathrm{p(x)} = 3\mathrm{x}^6 + 14x^5y + 590x^4y^2 + 19x^3y^3 - 12x^2y^4 - 12xy^5 + 2y^6 - a^3b^3$