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# LaTeX HW

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GDANSK UNIVERSITY

DIFFERENT FUNCTIONS OF L<sup>A</sup>T<sub>E</sub>X

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# 1 Favorite topics

## 1.1 Linguistics

- Phonology
- Phonetics
- Semantics
- Sociolinguistics
- Forensic Linguistics

## 1.2 Computer Science

- Machine Learning
- Data Science
- AI

# 2 fə'nɛtɪk trænskɹɪpʃən

## 2.1 'ɪŋɡlɪʃ trænskɹɪpʃən

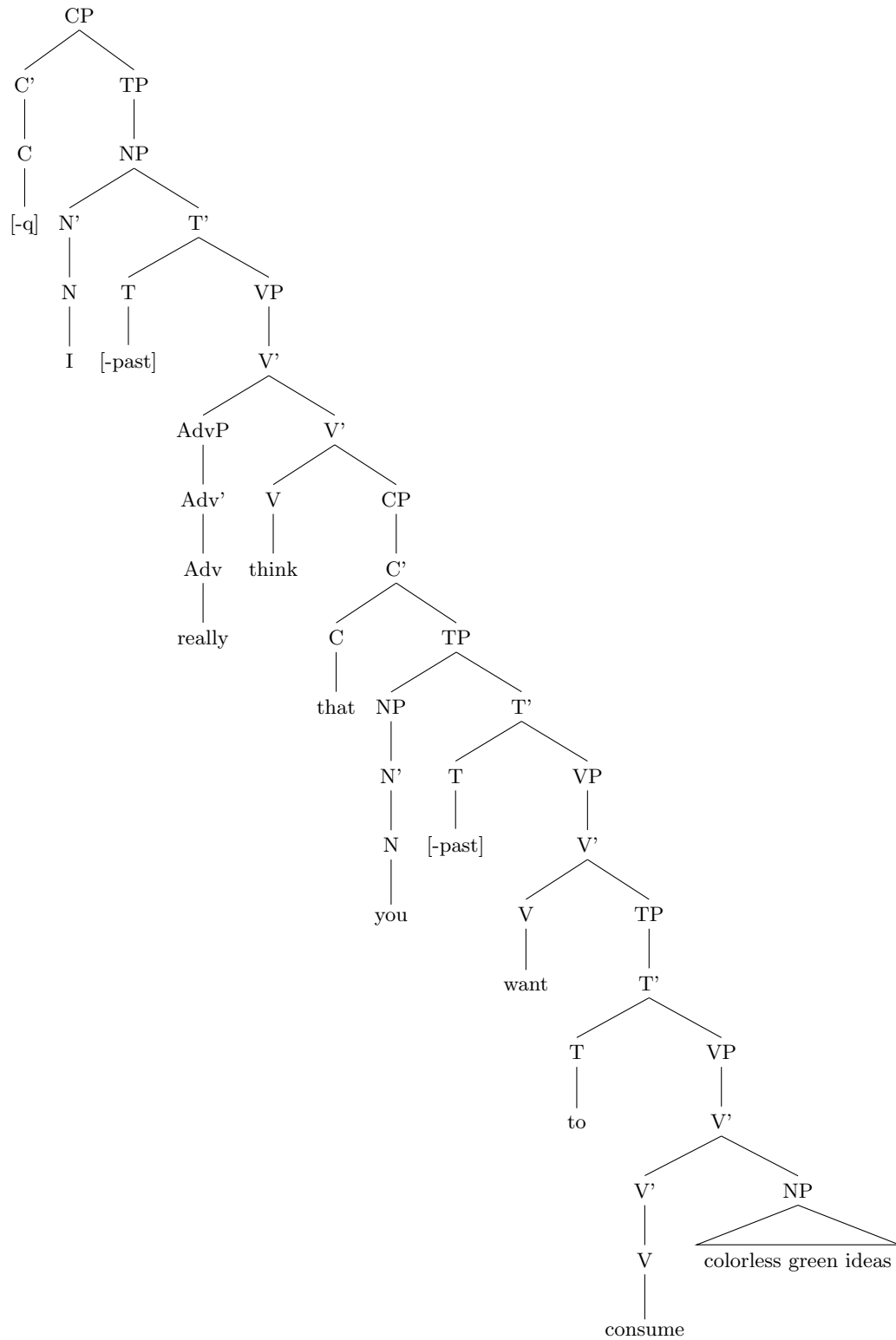
| haɪ maɪ neɪm ɪz 'ædəm | aɪ θɪŋk ɪts flæn tə 'kʰəʊd ɪn 'leɪtɛk | 'kʰɜrəntli am 'stɑdn̩ ət ðə ʃunə'vɜrsəti  
əv 'gdɑnsk | ɪn maɪ fri taɪm aɪ laɪk tə swɪm ənd rʌn ɪn maɪ 'tʰaʊn

## 2.2 'pʰəʊlɪʃ ,træn'skɹɪpʃən trãws'kɹɪptsʲja 'pɔlska

| lubʲɛ cɛ̃ | dɔbʒɛ bavʲɪtɕ | v ʃʲɛgʊlnɔɕtɕɪ gɔdɪ jɛstɛm sam v klubʲɪɐ̯ | natɔmʲɪast gɔdɪ jɛstɛm v ɕɾud lʊdʑɪ  
zahɔvʊjɛ cɛ̃ bardʑɔ gʑɛʲʲɪɐ̯

### 3 Syntax tree

I really think that you want to consume colorful green ideas.



## 4 Phonological rules

### 4.1 Assimilation

$$n \rightarrow \text{place}_i / - \left[ \begin{array}{c} \text{-syllabic} \\ \text{place}_i \end{array} \right]$$

### 4.2 Velar fronting

$$\left[ \begin{array}{c} \text{+dorsal} \\ \text{+consonantal} \end{array} \right] \rightarrow \left[ \begin{array}{c} \text{+front} \\ \text{-back} \end{array} \right] / - \left[ \begin{array}{c} \text{+syllabic} \\ \text{+front} \end{array} \right]$$

### 4.3 Final fricative devoicing

$$\left[ \begin{array}{c} \text{-sonorant} \\ \text{+continuant} \end{array} \right] \rightarrow [-\text{voice}] / \text{---}]_{\text{Utterance}}$$

## 5 Mathematical equation

$$G(z, w) = \sum_{i,j=0}^{\infty} g(i, j) z^i w^j$$

(from Mathematical Linguistics by Andras Kornai)