

# CS288 HW3: Transformers and Parsing

Due: 29 October 2024, 11:59PM PST

## Overview

This homework will be focused on parsing and also involves implementing a vanilla transformer.

## Background Reading

Please checkout the following resources before beginning this assignment:

- Constituency Parsing: <https://web.stanford.edu/~jurafsky/slp3/18.pdf>
- Attention Is All You Need: <https://arxiv.org/abs/1706.03762>

## Assignment

Notebook: <https://www.kaggle.com/code/kaylolittlejohn/hw3-starter>

- Complete the the notebook and save the generated files
- Write an error analysis of the parsing model (details in notebook)

## Submission to Gradescope

Please submit the assignment to Gradescope. When you upload your submission to the Gradescope assignment, you should get immediate feedback that confirms your submission was processed correctly. Be sure to check this, as an incorrectly formatted submission could cause the autograder to fail. In particular, please make sure that you're zipping your files and not the folder containing them. Note that Gradescope will allow you to submit multiple times before the deadline, and we will use the latest submission for grading. Make sure you have the following files (with correct names and extensions):

- |                                   |                        |
|-----------------------------------|------------------------|
| • dev_predictions_tagger_only.txt | • test_predictions.txt |
| • dev_predictions_parser_only.txt | • hw3.ipynb            |
| • dev_spans.txt                   | • report.pdf           |