

# CODECHECK certificate 2025-002 for Evaluating Subtitle Segmentation for End-to-end Generation systems



Item	Value
Title	Evaluating Subtitle Segmentation for End-to-end Generation systems
Authors	Alina Karakanta, François Buet, Mauro Cettolo, François Yvon
Ref. paper	<a href="https://aclanthology.org/2022.lrec-1.328/">https://aclanthology.org/2022.lrec-1.328/</a>
Codecheckers	Alex Brandsen ( <a href="#">0000-0003-1623-1340</a> ), Matthew Sung, Matthijs Westera ( <a href="#">0000-0001-7777-1864</a> )
Date of Check	2025-02-14
Summary	Full reproduction of code which evaluates subtitle segmentation
Repository	<a href="https://github.com/fyvo/EvalSubtitle">https://github.com/fyvo/EvalSubtitle</a>
Ref. certificate	10.5281/zenodo.15173758

**Table 1: CODECHECK summary**

Output	Comment
results_exp1.csv	Output of experiment 1
results_exp2.csv	Output of experiment 2
output/projected.fr	Output of experiment 3

**Table 2: Summary of output files generated**

## Summary

Overall, this is documented well and runs well, except for the third example in the lrec folder README, there the external library mwerSegmenter causes issues; on Windows it doesn't install at all, but it works on Linux systems.

The README steps produces 1 image (see below), so doesn't fully reproduce the 4 images in the paper.

## Installation prerequisites and computational environment

- Fresh environment in anaconda, python 3.9.18
- `pip install -r EvalSubtitle/lrec/requirements.txt`

## Data preparation

None

## Running the code

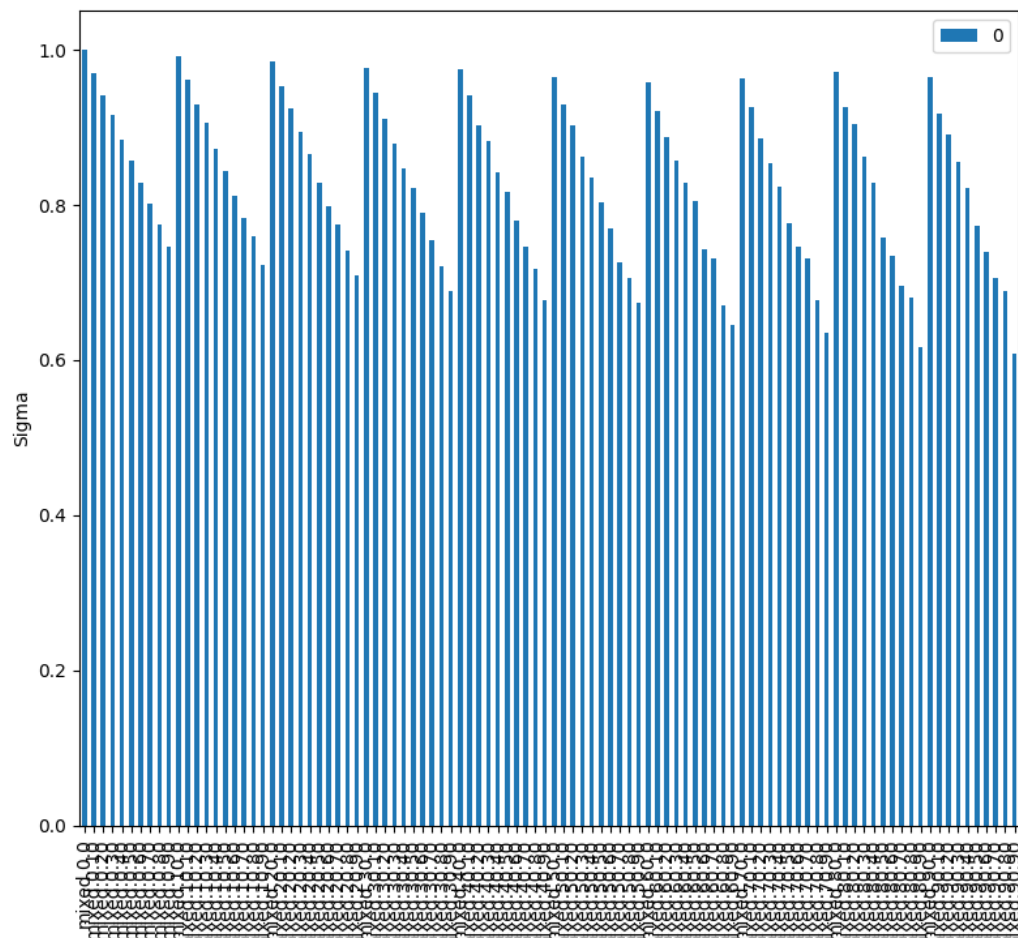
Ran the following commands, as documented in lrec/README.md

1. `python degrade_and_eval.py --output_dir . --results_file results_exp1.csv`
2. `python bleu-br_upper_bound.py --output_dir . --results_file results_exp2.csv`
3. `bash bound_proj.sh ../data/nmt.fr ../data/amara.fr nmt fr`

## Outputs

The scripts output a lot of temporary files, which are incorporated into the main result files. This includes many .txt files called 'amara.mixed.0.0.txt', with the numbers in range of 0-90, and folders called add, delete, replace and shift, also containing many text files.

The first script outputs the file results\_exp1.csv, this contains metrics for different systems and modes. It also opens the following matplotlib plot, which I think corresponds to fig. 4 in the paper.



The second script outputs the file results\_exp2.csv, this contains metrics for different p\_txt and p\_tags combinations.

The third script generates output/project.fr, a text file containing French text <eob> and <eol> tags

## Acknowledgements

This codecheck is an output of the CodeCHECK-NL workshop held in Leiden, on 14-02-2025

## Citing this document

Brandsen, A., Sung, M. & Westera, M. (2025). CODECHECK certificate 2025-02 for Evaluating Subtitle Segmentation for End-to-end Generation systems. Zenodo.  
<https://doi.org/10.5281/zenodo.15173758>