

# DEVELOPMENT OF AN API FOR EDU SEGMENTATION

## A Python Library for Elementary Discourse Unit Segmentation

Student: Patria Lim Yun Xuan

Supervisor: Sun Aixin

### Project Objectives

To make Elementary Discourse Unit (EDU) Segmentation models more accessible to developers/researchers engaging in various downstream tasks. The developed Python Library is applied onto an Aspect-Based Sentiment Analysis (ABSA) task and demonstrated through a website.

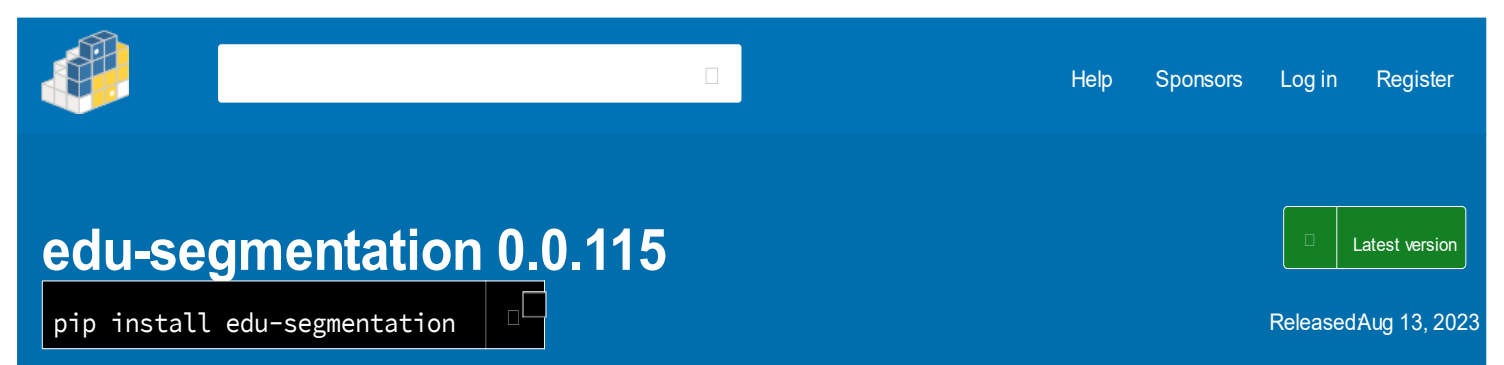
### Customization options

Model: BART, BERT-based, uncased

Device: CPU, GPU

Granularity: Default, Conjunction Words

Visit PyPI Page



### Input your review

Enter your review for segmentation:

Review  
the food was fabulous, but the service was a bit slow, the atmosphere was great though

Granularity: Split by Conjunction Words | Model: BART model | Device: CPU | Conjunction Words: Custom | Custom Option: but

**SEGMENT**

### EDU-Segmented Results

**EDU-segmented results**

**Original Text:**  
the food was fabulous, but the service was a bit slow, the atmosphere was great though

**Granularity:** conjunction\_words  
**Model:** bart  
**Device:** cpu  
**Conjunction Words:** but

Index	Words
0,5	the food was fabulous,
5, 6	but
7, 13	the service was a bit slow,
13,18	the atmosphere was great though

### Restaurant Review ABSA Analysis

About Explore Analyze Segment Yelp

**Yelp Restaurant Search**

Model: Segbot BART | Granularity: Default | Device: CPU

Pastamania

food price anecdotes service

Rating: 4  
Price Range: \$\$  
Category: Italian  
Contact: +65 6337 3428  
Location: 109 North Bridge Road#01-08/09, Finan Centre Singapore, 179097 Singapore

**Total Reviews: 24**

Review:  
The pasta was really good, especially the penne bolognese and the price was reasonable

Analysis:  
food positive  
price positive

Review:  
I've always eaten their Chicken Cheese Sausage but recently, my friend ordered their seafood Zuppa and after I tried it, I'm sold!! IT's now my current...

Analysis:  
food positive