

# Unit 10 - Week 9

## Course outline

### How to access the portal?

#### Week 1

#### Week 2

#### Week 3

#### Week 4

#### Week 5

#### Week 6

#### Week 7

#### Week 8

#### Week 9

- Introduction to Phrase-based translation
- Symmetrization of alignments
- Extraction of Phrases
- Learning/estimating the phrase probabilities using another Symmetrization example
- Introduction to evaluation of Machine Translation
- BLEU - "A short Discussion of the seminal paper"
- BLEU Demo using NLTK and other metrics
- Week 8-9 Lecture materials

#### Quiz : Assignment 9

- Applied Natural Language Processing : Week 9 Feedback

#### Week 10

#### Week 11

#### Week 12

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## Assignment 9

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

**Due on 2019-10-02, 23:59 IST.**

1) Do IBM Models (model 1 and 2) support many-to-one alignment in the case of translation from French to English? 0 points

- Yes  
 No

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
No

2) In phrase-based translation, only linguistic phrases are considered 1 point

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
False

3) In phrase-based translation, the whole sentence could be considered as a phrase 1 point

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
True

4) The process of symmetrization made "many to one" and "one to many" alignments possible 1 point

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
True

5) How many consistent phrases could be extracted from alignment table given below 1 point

	Maria	no
Mary		
did		
not		

- 0  
 1  
 2  
 3

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
2

6) How many consistent phrases could be extracted from alignment table given below 1 point

	Maria	no
Mary		
did		
not		

- 0  
 1  
 2  
 3

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
1

7) Consider the pair (no daba, slap the). Which one of the rules does this pair violate? 1 point

	Maria	no	daba	una
Mary				
did				
not				
slap				
the				
green				
witch				

- There is at least one word in Spanish that is aligned to English  
 No words should be aligned outside the phrase boundary  
 This is a consistent pair. There is no violation

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
No words should be aligned outside the phrase boundary

8) Which rule(s) does this phrase pair (Maria no, Mary did not slap) satisfy? 1 point

	Maria	no	daba	una
Mary				
did				
not				
slap				
the				
green				
witch				

- There is at least one word in English aligned to a word in Spanish  
 There are no words in Spanish aligned to words outside English  
 There are no words in English aligned to words outside Spanish  
 No rules are broken

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
There is at least one word in English aligned to a word in Spanish  
There are no words in Spanish aligned to words outside English

9) Phrase-based translation does not use Noisy-Channel model 1 point

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
False

10) According to the seminal paper discussed in the lecture on BLEU, as  $n$  increases in the  $n$ -gram, the translation precisions decay exponentially 0 points

- True  
 False

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
False