# Practice III

Document similarity

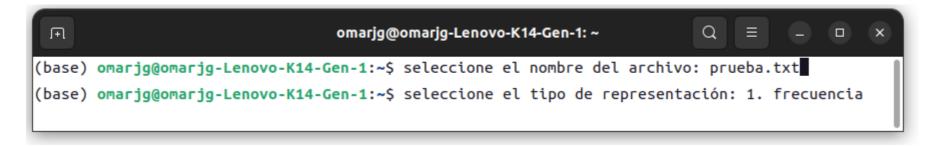
## Specifications

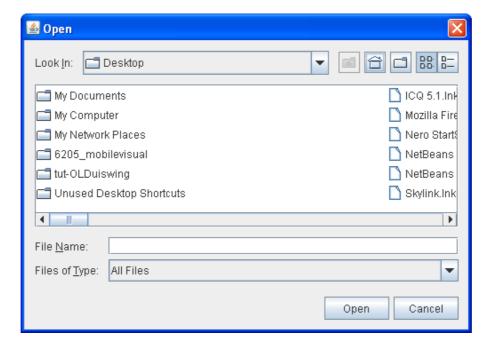
- Form a team of 3 to 4 people
- With the corpus of news generated in practice II perform the following
  - 1. Load the corpus
  - 2. Generate the three vector representations reviewed in class (frequency, binarized and tf-idf)
- Select a new text document as input and indicate the type of vector representation. Do the following with this document:
  - 1. Apply the same normalization process performed with the news corpus
  - 2. Generate the indicated vector representation
  - Apply the cosine similarity algorithm to determine the similarity between the input document and the rest of the documents in the news corpus.
  - 4. Display the 10 most similar documents in descending order

#### Interface

- An interface with the following specifications needs to be created for the practice
  - The news corpus should be uploaded, and the three distinct text representations must be generated
  - The program must enable the user to select a test file by indicating the file name (and path) or using a browse button in a graphical interface
  - The program should display the 10 most similar documents in descending order

### Interface





#### Evidence

- Source code
- Document in PDF with the following table

documento_prueba_ <num_prue ba&gt;</num_prue 	<contenido></contenido>	
representación_ <tipo_de_represent ación=""></tipo_de_represent>	documento_corpus_ <num_docu mento&gt;</num_docu 	<valor_de_similit ud=""></valor_de_similit>
<num nrueha="">: nombre del ar</num>	chivo de prueba (1-2-3)	

- <num\_prueba>: nombre del archivo de prueba (1, 2, 3, ...)
- <contenido>: contenido de la noticia de prueba
- <tipo de representación>: binarizada, frecuencia o tf-idf
- <num\_documento>: número de reglón de la noticia en el corpus (1,2,3, ...)
- <valor\_de\_similitud>: valor de sumilitud coseno

#### Evidence

- Conclusions of the practice, describing the difficulties encountered, the solutions applied, the results obtained in the different tests and representations generated, as well as suggestions for improvements for future work.
- The document must include the names of the team's members
- All the members must upload the evidence