MyProject

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# Namespace Index

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Here is a list of all namespaces with brief descriptions:	
diff	5

2 Namespace Index

## File Index

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Here is a list of all files with brief descriptions:	
diff.py	ç

File Index

### **Namespace Documentation**

#### 3.1 diff Namespace Reference

#### **Functions**

- def remove\_delimiters (text\_line)
- def format\_text (text\_line)
- def create dictionary (file path)
- def inner\_product (document\_one\_dictionary, document\_two\_dictionary)
- def calculate\_distance (document\_one\_dictionary, document\_two\_dictionary)
- def text\_formatting (my\_dictionary)
- def ensure\_dir (file\_path)

#### **Variables**

- string delimiters = "\\"/<?>,.:\*-+\\='~!@#^&()\_;"
- dictionary document\_word\_count = {}
- folder\_path = raw\_input("Please input the path to the folder")
- dictionary document dictionary = {}
- output\_folder\_path = raw\_input("Please input the path to the output folder")
- dictionary result\_dictionary = {}
- dictionary document one dictionary = {}
- idf key = math.log(len(document\_dictionary) / (document\_word\_count[key] \* 1.0))
- tf key = document dictionary[file index one][key]
- dictionary document\_two\_dictionary = {}
- result = calculate distance(document one dictionary, document two dictionary)
- · file index one
- end
- sorted\_result = sorted(result\_dictionary.items(), key=operator.itemgetter(1))
- result\_file\_name = raw\_input("Please enter the name of file where you wish to save the result.")
- result\_file = open(result\_file\_name ,'w')
- file

#### 3.1.1 Function Documentation

#### 3.1.1.1 def diff.calculate\_distance ( document\_one\_dictionary, document\_two\_dictionary )

```
Function name : inner_product
Input arguments :
    1. dictionary document_one_dictionary: The dictionary corresponding to document one.
    2. dictionary document_two_dictionary: The dictionary corresponding to document two.
Purpose : To find the distance between two documents
Return Value : The cosine distance of two vectors
```

#### Definition at line 98 of file diff.py.

#### 3.1.1.2 def diff.create\_dictionary ( file\_path )

```
Function name : create_dictionary
Input arguments :
    1. string file_path : The path to the file to be read.
Purpose : To create the word frequency table/ vector
Return Value : The dictionary containing the word frequenct vector
```

#### Definition at line 50 of file diff.py.

#### 3.1.1.3 def diff.ensure\_dir ( file\_path )

```
Function name : inner_product
Input arguments :
    1. string file_path : The path of the folder.
Purpose : To create a directory if it does not exists.
```

#### Definition at line 130 of file diff.py.

#### 3.1.1.4 def diff.format\_text ( text\_line )

```
Function name : format_text
Input arguments :
    1. string text_line : Piece of text
Purpose : To format the text by removing delimiters and trailing whitespaces
Return Value : The formatted string.
```

#### Definition at line 37 of file diff.py.

#### 3.1.1.5 def diff.inner\_product ( document\_one\_dictionary, document\_two\_dictionary )

```
Function name : inner_product
Input arguments :
    1. dictionary document_one_dictionary : The dictionary corresponding to document one.
    2. dictionary document_two_dictionary : The dictionary corresponding to document two.
Purpose : To find the inner product of two vectors
Return Value : The inner product of two vectors
```

#### Definition at line 82 of file diff.py.

#### 3.1.1.6 def diff.remove\_delimiters ( text\_line )

```
Function name : remove_delimiters
Input arguments :
    1. string text_line : Piece of text
Purpose : To remove unnecessary characters
Return Value : The string after removing characters.
```

Definition at line 24 of file diff.py.

#### 3.1.1.7 def diff.text\_formatting ( my\_dictionary )

```
Function name : inner_product
Input arguments :
    1. dictionary my_dictionary : The dictionary to be formatted
Purpose : To remove the words which have very less importance to the meaning.
Return Value : The modified dictionary.
```

Definition at line 113 of file diff.py.

#### 3.1.2 Variable Documentation

```
3.1.2.1 string diff.delimiters = "\\"/<?>,.:*-+\\='\sim!@#^{\delta}()_;"
```

Definition at line 17 of file diff.py.

3.1.2.2 dictionary diff.document\_dictionary = {}

Definition at line 143 of file diff.py.

3.1.2.3 dictionary diff.document\_one\_dictionary = {}

Definition at line 157 of file diff.py.

3.1.2.4 dictionary diff.document\_two\_dictionary = {}

Definition at line 166 of file diff.py.

3.1.2.5 dictionary diff.document\_word\_count = {}

Definition at line 21 of file diff.py.

3.1.2.6 diff.end

Definition at line 178 of file diff.py.

Definition at line 162 of file diff.py.

```
3.1.2.7 diff.file
Definition at line 190 of file diff.py.
3.1.2.8 diff.file_index_one
Definition at line 178 of file diff.py.
3.1.2.9 diff.folder_path = raw_input("Please input the path to the folder")
Definition at line 142 of file diff.py.
3.1.2.10 diff.idf_key = math.log(len(document_dictionary) / (document_word_count[key] * 1.0))
Definition at line 161 of file diff.py.
3.1.2.11 diff.output_folder_path = raw_input("Please input the path to the output folder")
Definition at line 144 of file diff.py.
3.1.2.12 diff.result = calculate_distance(document_one_dictionary, document_two_dictionary)
Definition at line 176 of file diff.py.
3.1.2.13 dictionary diff.result_dictionary = {}
Definition at line 148 of file diff.py.
3.1.2.14 diff.result_file = open(result_file_name, 'w')
Definition at line 188 of file diff.py.
3.1.2.15 diff.result_file_name = raw_input("Please enter the name of file where you wish to save the result.")
Definition at line 187 of file diff.py.
3.1.2.16 diff.sorted_result = sorted(result_dictionary.items(), key=operator.itemgetter(1))
Definition at line 183 of file diff.py.
3.1.2.17 diff.tf_key = document dictionary[file index one][key]
```

### **File Documentation**

#### 4.1 diff.py File Reference

#### **Namespaces**

• diff

#### **Functions**

- · def diff.remove delimiters (text line)
- def diff.format\_text (text\_line)
- def diff.create\_dictionary (file\_path)
- def diff.inner\_product (document\_one\_dictionary, document\_two\_dictionary)
- def diff.calculate\_distance (document\_one\_dictionary, document\_two\_dictionary)
- def diff.text\_formatting (my\_dictionary)
- def diff.ensure\_dir (file\_path)

#### **Variables**

- string diff.delimiters = "\\"/<?>,.:\*-+\\='~!@#^&()\_;"
- dictionary diff.document\_word\_count = {}
- diff.folder path = raw input("Please input the path to the folder")
- dictionary diff.document\_dictionary = {}
- diff.output\_folder\_path = raw\_input("Please input the path to the output folder")
- dictionary diff.result dictionary = {}
- dictionary diff.document one dictionary = {}
- diff.idf\_key = math.log(len(document\_dictionary) / (document\_word\_count[key] \* 1.0))
- diff.tf\_key = document\_dictionary[file\_index\_one][key]
- dictionary diff.document\_two\_dictionary = {}
- diff.result = calculate\_distance(document\_one\_dictionary, document\_two\_dictionary)
- · diff.file index one
- diff.end
- diff.sorted result = sorted(result dictionary.items(), key=operator.itemgetter(1))
- diff.result\_file\_name = raw\_input("Please enter the name of file where you wish to save the result.")
- diff.result\_file = open(result\_file\_name ,'w')
- · diff.file

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