

Python indexing, Pandas axis, and pd.read_excel to a python dictionary object

Python sequential (iterable) objects, list, tuples, and ranges have index position values.

When importing ensure to inspect values start on the index you want them to.

```
import pandas as pd; pd.read_excel('file_path')
```

rlcl Excel setting -> file \ options \ formulas \ turn on R1C1

it.304.wk7.d2

b.hogan@snhu.edu

(+)index -> <-(-)index

↓	0	1	2	3	4
1					
2					
3					
↑	4				

Axis -> 1 (columns)

(rows) 0

0 -> 1

Axis shift

pandas	0 -> rows
Axis	1 -> columns
rlcl	= application #s

	0	1	2	3	4
rlcl	1	2	3	4	5
1	title	script	type	id	
0	Alls Well That	in delivering	Comedy	0	
1	As You Like	as i rememb	Comedy	1	
2	The Comedy	proceed soli	Comedy	2	
3	Cymbeline	you do not m	Comedy	3	
4	Love's Labou	let fame that	Comedy	4	
5	7				

Python positional index

rlcl = application index

row x column

```
df0 = pd.read_excel("data_shakes_corpus_v1.xlsx") #ETL method 2
df0.info()
mydict = df0.to_dict() #dataframe to python dictionary !
'''mydict = megadict = {'title':{}, 'script':{}, 'type':{}, 'ID':{}}'''
mydict
#37 rows x 4 xcolumns
```

```
col-0 | col-1 | col-2 | col-3
header title | script | type | id
row-0 = 1st line; total = 37 rows or 37x4 (R x C)'''
```

df0 - DataFrame

Index	title	script	type	ID
0	Alls Well That Ends Well	in delivering my son from me i bury a second h...	Comedy	0
1	As You Like It	as i remember adam it was upon this fashion be...	Comedy	1
2	The Comedy of Errors	proceed solinus to procure my fall and by the ...	Comedy	2

mydict - Dictionary (4 elements)

Key Type Size Value

Key	Type	Size	Value
ID	dict	37	{0:0, 1:1, 2:2, 3:3, 4:4, 5:5, 6:6, 7:7, 8:8, 9:9, ...}
script	dict	37	{0:'in delivering my son from me i bury a second husband what hope is ...
title	dict	37	{0:'Alls Well That Ends Well', 1:'As You Like It', 2:'The Comedy of Er ...
type	dict	37	{0:'Comedy', 1:'Comedy', 2:'Comedy', 3:'Comedy', 4:'Comedy', 5:'Comedy ...