

## 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('flie_path')
```

rlc1 Excel setting -> file \ options \ formulas \ turn on R1C1

it.304.wk7.d2

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

↓	0	1	2	3	4
1					
2					
3					
4					
↑					
(-)index					

Axis -> 1(columns)

(rows) 0 <-	0	1	2	3	4
1					
2					
3	0 -> 1				
4					

Axis shift

pandas	0 -> rows
Axis	1 -> columns
rlc1	= application #s

		0	1	2	3	4	Python positional index
rlc1		1	2	3	4	5	rlc1 = application index
1		title	script	type	id		
0	2	Alls Well That	in delivering	Comedy	0		
1	3	As You Like	as i rememb	Comedy	1		
2	4	The Comedy	proceed soli	Comedy	2		
3	5	Cymbeline	you do not m	Comedy	3		
4	6	Loves Labou	let fame that	Comedy	4		
5	7						

row x column

	title	script	type	ID
rlc1	rlc2	rlc3	rlc4	
r2c1				
	r3c2			
		r4c3		
			r4c4	

```
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)'''
```

**B** 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

**C** mydict - Dictionary (4 elements)

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 ...