

### Flat File Structure

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Flat files contain tabular data in plain text format with one data record per line and each record or line having one or more fields. These fields are separated by delimiters, like commas, tabs, or colons.

## Advantages of flat files include:

- They're text files and therefore human readable.
- Lightweight.
- Simple to understand.
- Software that can read/write text files is ubiquitous, like text editors.
- Great for small datasets.

**Disadvantages of flat files**, in comparison to relational databases, for example, include:

- Lack of standards.
- Data redundancy.
- Sharing data can be cumbersome.



# Quiz

Are the files pictured below flat files? Match yes or no to each file number in the following quiz.

File #1: animals.csv

	animals.csv UNREGISTE
1	"animal","body","brain"
2	"Mountain beaver",1.35,8.1
3	"Cow",465,423
4	"Grey wolf",36.33,119.5
5	"Goat",27.66,115
6	"Guinea pig",1.04,5.5
7	"Dipliodocus",11700,50
8	"Asian elephant",2547,4603
9	"Donkey",187.1,419
10	"Horse",521,655

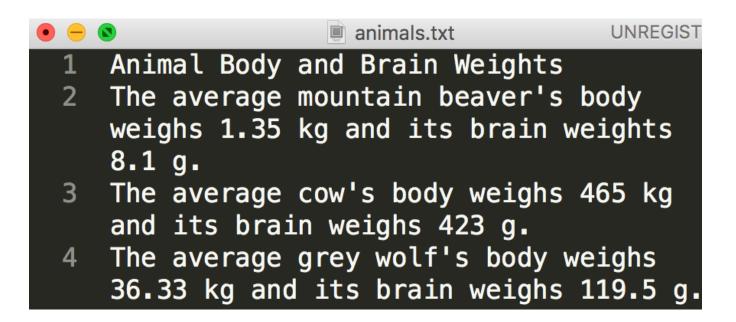
File #2: animals.tsv



#### Flat File Structure

2 Mountain beaver 1.35 8.1 3 Cow 465 423 4 Grey wolf 36.33 119.5 5 Goat 27.66 115 6 Guinea pig 1.04 5.5 7 Dipliodocus 11700 50 8 Asian elephant 2547 4603 9 Donkey 187.1 419 10 Horse 521 655

File #3: animals.txt



File #4: animals.txt



### Flat File Structure

- T animal, body, brain
- 2 Mountain beaver, 1.35, 8.1
- 3 Cow, 465, 423
- 4 Grey wolf,36.33,119.5
- 5 Goat, 27.66, 115
- 6 Guinea pig, 1.04, 5.5
- 7 Dipliodocus,11700,50
- 8 Asian elephant, 2547, 4603
- 9 Donkey, 187.1, 419
- 10 Horse, 521, 655

QUIZ QUESTION  Are the files pictured above flat files?			
Are the mes pictured above hat mes:			
No No Yes No			
FILE	FLAT FILE?		
#1: animals.csv	Yes		
#2: animals.tsv	Yes		



## **More Information**

- Professor Excel: XML & ZIP: Explore Your Excel Workbooks File Structure
- Cornell: Relational Databases Not your Father's Flat Files

NEXT