

To create a data frame in R, use

```
> pizza1 = read.table(" ... /pizza1.txt", header = T)
```

or

```
> pizza1 = read.table(" ... /pizza1.txt", sep=" ", header = T)
```

`sep = " "` (the default for `read.table`) – the separator is ‘white space’

`header = T` indicates that the first line of the data file contains the names for the variables
(as opposed to `header = F`)

```
> pizza1
  x    y
1  2   58
2  6  105
3  8   88
4  8  118
5 12  117
6 16  137
7 20  157
8 20  169
9 22  149
10 26 202
```

You can then access individual variables in the data frame `pizza1` by using `pizza1$x` and `pizza1$y`:

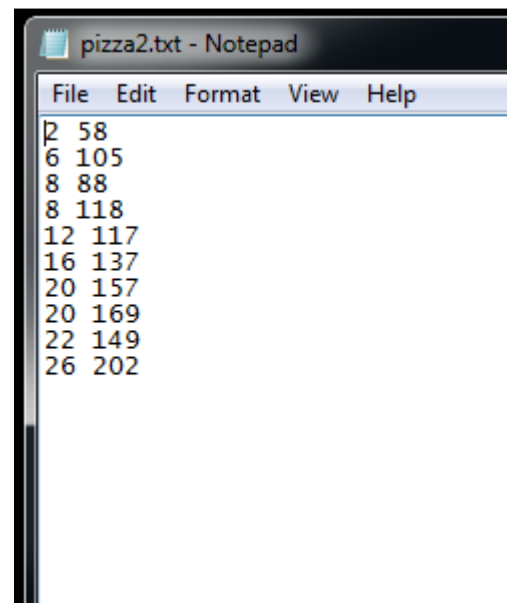
```
> pizza1$x
[1]  2  6  8  8 12 16 20 20 22 26
> pizza1$y
[1]  58 105  88 118 117 137 157 169 149 202
```

or

```
> fit = lm(y ~ x, data = pizza1)

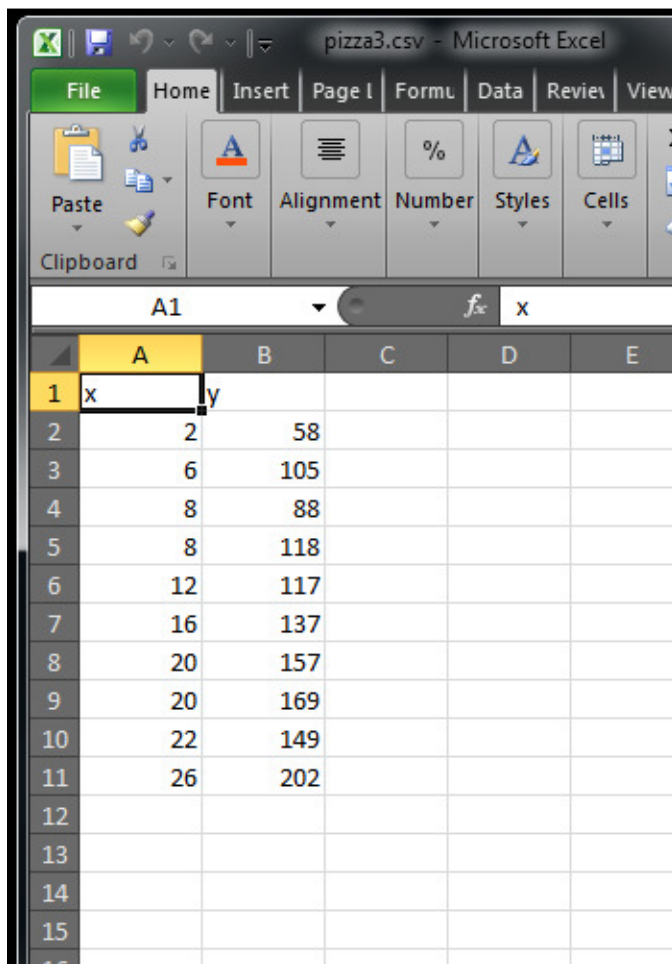
> attach(pizza1)
```

After `attach(pizza1)`, you may refer to the variables in the data set directly, i.e., `x` instead of `pizza1$x`.

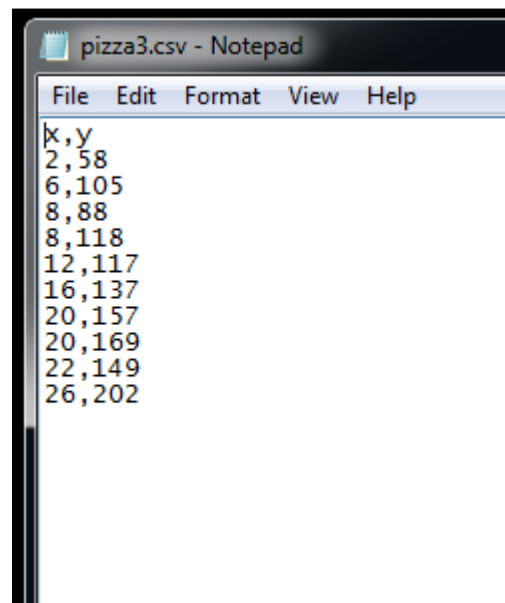


```
> pizza2 = read.table(" ... /pizza2.txt", header = F)
> pizza2
   V1  V2
1    2  58
2    6 105
3    8  88
4    8 118
5   12 117
6   16 137
7   20 157
8   20 169
9   22 149
10  26 202
```

```
> pizza2$V1
[1] 2 6 8 8 12 16 20 20 22 26
> pizza2$V2
[1] 58 105 88 118 117 137 157 169 149 202
```



	A	B	C	D	E
1	x	y			
2	2	58			
3	6	105			
4	8	88			
5	8	118			
6	12	117			
7	16	137			
8	20	157			
9	20	169			
10	22	149			
11	26	202			
12					
13					
14					
15					
16					

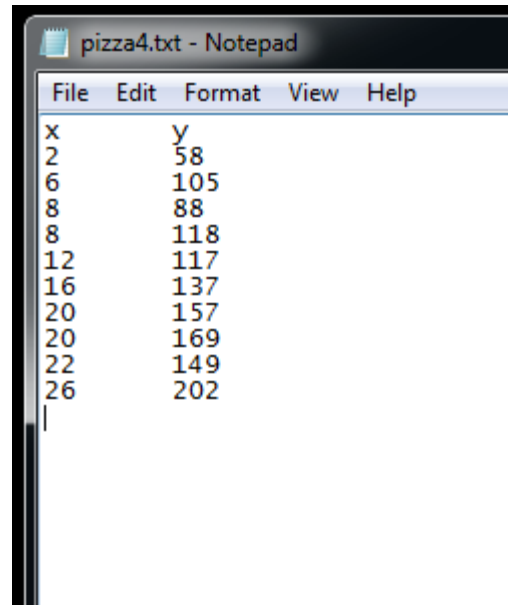


```
x,y
2,58
6,105
8,88
8,118
12,117
16,137
20,157
20,169
22,149
26,202
```

The **Comma-Separated Values** file format (comma-delimited format) is used to store tabular data in which numbers and text are stored in plain textual form. Lines in the text file represent rows of a table, and commas in a line separate what are fields in the row.

```
> pizza3 = read.table(" ... /pizza3.csv", sep = ",", header = T)
```

`sep = ","` indicates that the data in the data file are separated by a comma,



x	y
2	58
6	105
8	88
8	118
12	117
16	137
20	157
20	169
22	149
26	202

```
> pizza4 = read.table(" ... /pizza4.txt", sep = "\t", header = T)
```