This simple sample document shows possibilities of the handlecsv.lua module.

Imagine, that CSV file `myfirstcsvexamplefile.csv` that I want to use for my print report has the so-called header (ie. the first line contains the names of each columns of the table) and the separator of columns is a semicolon.

When I need process this CSV file, then at first I have to load required module by command:

```
\usemodule[handlecsv] % this command load module into my source code
```

The module now needs to know, whether CSV file contain a header and to know which delimiter used to divide to separate columns. The default setting of the module library setting can be changed to suit my needs.

```
\setheader % this set a header flag i.e. CSV file has header in first line
\setsep{,} % change settings of default separator (this is ; semicolon)
```

Now I can open my CSV file for processing by the command:

```
\opencsvfile{myfirstcsvexamplefile.csv}
```

After opening the file I can find out a lot of useful information. eg typing of line:

```
The file \csvfilename\ has \numcols columns\  and \numrows\ rows (lines).
```

Lists message:

The file myfirstcsvexamplefile.csv has 12columns and 33 rows (lines).

DORECURSE

1/ 1- James
2/ 2- Josephine
3/ 3- Art
4/ 4- Lenna
5/ 5- Donette
6/ 6- Simona
7/ 7- Mitsue
8/ 8- Leota
9/ 9- Sage
10/ 10- Kris
11/ 11- Minna
12/ 12- Abel
13/ 13- Kiley
14/ 14- Graciela

15/ 15- Cammy
16/ 16- Mattie
17/ 17- Meaghan
18/ 18- Gladys
19/ 19- Yuki
20/ 20- Fletcher
21/ 21- Bette
22/ 22- Veronika
23/ 23- Willard
24/ 24- Maryann
25/ 25- Alisha
26/ 26- Allene
27/ 27- Chanel
28/ 28- Ezekiel
29/ 29- Willow
30/ 30- Bernardo
31/ 31- Ammie
32/ 32- Francine
33/ 33- Ernie

1 xx 1- James
2 xx 2- Josephine
3 xx 3- Art
4 xx 4- Lenna
5 xx 5- Donette
6 xx 6- Simona
7 xx 7- Mitsue
8 xx 8- Leota
9 xx 9- Sage
10 xx 10- Kris
11 xx 11- Minna
12 xx 12- Abel
13 xx 13- Kiley
14 xx 14- Graciela
15 xx 15- Cammy
16 xx 16- Mattie
17 xx 17- Meaghan
18 xx 18- Gladys
19 xx 19- Yuki
20 xx 20- Fletcher
21 xx 21- Bette

22 xx 22- Veronika
23 xx 23- Willard
24 xx 24- Maryann
25 xx 25- Alisha
26 xx 26- Allene
27 xx 27- Chanel
28 xx 28- Ezekiel
29 xx 29- Willow
30 xx 30- Bernardo
31 xx 31- Ammie
32 xx 32- Francine
33 xx 33- Ernie

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

The filename **myfirstcsvexamplefilewithoutheader.csv** has 12 columns and 32 rows (lines).

1/ 1- Josephine
2/ 2- Art
3/ 3- Lenna
4/ 4- Donette
5/ 5- Simona
6/ 6- Mitsue
7/ 7- Leota
8/ 8- Sage
9/ 9- Kris
10/ 10- Minna
11/ 11- Abel
12/ 12- Kiley
13/ 13- Graciela
14/ 14- Cammy
15/ 15- Mattie
16/ 16- Meaghan
17/ 17- Gladys
18/ 18- Yuki
19/ 19- Fletcher
20/ 20- Bette
21/ 21- Veronika
22/ 22- Willard
23/ 23- Maryann
24/ 24- Alisha

25/ 25- Allene
26/ 26- Chanel
27/ 27- Ezekiel
28/ 28- Willow
29/ 29- Bernardo
30/ 30- Ammie
31/ 31- Francine
32/ 32- Ernie

První řádek obsahuje hlavičku ()

Stejně pro soubor bez hlavičky

The filename **myfirstcsvexamplefilewithemptylines.csv** has 12 columns and 40 rows (lines).

1/ 1- James
2/ 2- Josephine
3/ 3- Art
4/ 4- Lenna
5/ 5- Donette
6/ 6- Simona
7/ 7- Mitsue
8/ 8-
9/ 9- Leota
10/ 10- Sage
11/ 11- Kris
12/ 12-
13/ 13-
14/ 14- Minna
15/ 15- Abel
16/ 16-
17/ 17- Kiley
18/ 18- Graciela
19/ 19- Cammy
20/ 20-
21/ 21- Mattie
22/ 22- Meaghan
23/ 23- Gladys
24/ 24-
25/ 25- Yuki
26/ 26- Fletcher
27/ 27- Bette

28/ 28- Veronika
29/ 29-
30/ 30- Willard
31/ 31- Maryann
32/ 32- Alisha
33/ 33- Allene
34/ 34- Chanel
35/ 35- Ezekiel
36/ 36- Willow
37/ 37- Bernardo
38/ 38- Ammie
39/ 39- Francine
40/ 40- Ernie

LUACODE

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EMPTYTEST

1: NONEMPTY
2: NONEMPTY
3: NONEMPTY
4: NONEMPTY
5: NONEMPTY
6: NONEMPTY
7: NONEMPTY
8: NONEMPTY
9: NONEMPTY
10: NONEMPTY
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35: NONEMPTY
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39: NONEMPTY
40: NONEMPTY

NOTEMPTYTEST

1: NOTEMPTY
2: NOTEMPTY
3: NOTEMPTY
4: NOTEMPTY
5: NOTEMPTY
6: NOTEMPTY
7: NOTEMPTY
8: NOTEMPTY
9: NOTEMPTY
10: NOTEMPTY
11: NONEMPTY
12: NOTEMPTY
13: NOTEMPTY
14: NOTEMPTY
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18: NOTEMPTY
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20: NOTEMPTY
21: NOTEMPTY

22: NOTEMPTY
23: NOTEMPTY
24: NOTEMPTY
25: NOTEMPTY
26: NOTEMPTY
27: NOTEMPTY
28: NOTEMPTY
29: NOTEMPTY
30: NOTEMPTY
31: NOTEMPTY
32: NOTEMPTY
33: NOTEMPTY
34: NOTEMPTY
35: NOTEMPTY
36: NOTEMPTY
37: NOTEMPTY
38: NOTEMPTY
39: NOTEMPTY
40: NOTEMPTY

FILELINEACTION EMPTY – NONEMPTY

EMPTY LINES ARE NOT MARKING ()

EMPTY LINES ARE NOT MARKING

SETHEADER = ON1 – 1/ 1- Butt
2 – 2/ 2- Darakjy
3 – 3/ 3- Venere
4 – 4/ 4- Paprocki
5 – 5/ 5- Foller
6 – 6/ 6- Morasca
7 – 7/ 7- Tollner
8 – 8/ 8-
9 – 9/ 9- Dilliard
10 – 10/ 10- Wieser
11 – 11/ 11- Marrier
12 – 12/ 12-
13 – 13/ 13-
14 – 14/ 14- Amigon
15 – 15/ 15- Maclead
16 – 16/ 16-
17 – 17/ 17- Caldarera

18 – 18/ 18- Ruta
19 – 19/ 19- Albares
20 – 20/ 20-
21 – 21/ 21- Poquette
22 – 22/ 22- Garufi
23 – 23/ 23- Rim
24 – 24/ 24-
25 – 25/ 25- Whobrey
26 – 26/ 26- Flosi
27 – 27/ 27- Nicka
28 – 28/ 28- Inouye
29 – 29/ 29-
30 – 30/ 30- Kolmetz
31 – 31/ 31- Royster
32 – 32/ 32- Slusarski
33 – 33/ 33- Iturbide
34 – 34/ 34- Caudy
35 – 35/ 35- Chui
36 – 36/ 36- Kusko
37 – 37/ 37- Figeroa
38 – 38/ 38- Corrio
39 – 39/ 39- Vocelka
40 – 40/ 40- Stenseth

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40

40

FILELINEACTION EMPTY – NONEMPTY FILELINEACTION EMPTY – NON-
EMPTY FILELINEACTION EMPTY – NONEMPTY

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12

2

AAAAAAAAAAAAAAAAAAAAAAAA

ALL LINES WITH EVALUATING OF EMPTENIES

1– 1 : James
2– 2 : Josephine
3– 3 : Art

4– 4 : Lenna
5– 5 : Donette
6– 6 : Simona
7– 7 : Mitsue
8: EMPTY
9– 10 : Sage
10– 11 : Kris
11– 14 : Minna
12: EMPTY
13: EMPTY
14– 18 : Graciela
15– 19 : Cammy
16: EMPTY
17– 22 : Meaghan
18– 23 : Gladys
19– 25 : Yuki
20: EMPTY
21– 27 : Bette
22– 28 : Veronika
23– 30 : Willard
24: EMPTY
25– 32 : Alisha
26– 33 : Allene
27– 34 : Chanel
28– 35 : Ezekiel
29: EMPTY
30– 37 : Bernardo
31– 38 : Ammie
32– 39 : Francine
33– 40 : Ernie
34– 34 : Chanel
35– 35 : Ezekiel
36– 36 : Willow
37– 37 : Bernardo
38– 38 : Ammie
39– 39 : Francine
40– 40 : Ernie

BBBBBBBBBBBBBBBBBBBBBBBBBB
ONLY NONEMPTY LINES

1– 1 : James
2– 2 : Josephine
3– 3 : Art
4– 4 : Lenna
5– 5 : Donette
6– 6 : Simona
7– 7 : Mitsue
8– 9 : Leota
9– 10 : Sage
10– 11 : Kris
11– 14 : Minna
12– 15 : Abel
13– 17 : Kiley
14– 18 : Graciela
15– 19 : Cammy
16– 21 : Mattie
17– 22 : Meaghan
18– 23 : Gladys
19– 25 : Yuki
20– 26 : Fletcher
21– 27 : Bette
22– 28 : Veronika
23– 30 : Willard
24– 31 : Maryann
25– 32 : Alisha
26– 33 : Allene
27– 34 : Chanel
28– 35 : Ezekiel
29– 36 : Willow
30– 37 : Bernardo
31– 38 : Ammie
32– 39 : Francine
33– 40 : Ernie

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

ONLY EMPTY LINES

1– 8 : EMPTY
2– 12 : EMPTY
3– 13 : EMPTY
4– 16 : EMPTY

5– 20 : EMPTY
6– 24 : EMPTY
7– 29 : EMPTY

DDDDDDDDDDDDDDDDDDDDDDDD

trueEMPTY:8, 8EMPTY:12, 12EMPTY:13, 13EMPTY:16, 16EMPTY:20, 20EMPTY:24, 24EMPTY:29, 29NOEMPTY:1, 1NOEMPTY:2, 2NOEMPTY:3, 3NOEMPTY:4, 4NOEMPTY:5, 5NOEMPTY:6, 6NOEMPTY:7, 7NOEMPTY:9, 9NOEMPTY:10, 10NOEMPTY:11, 11NOEMPTY:14, 14NOEMPTY:15, 15NOEMPTY:17, 17NOEMPTY:18, 18NOEMPTY:19, 19NOEMPTY:21, 21NOEMPTY:22, 22NOEMPTY:23, 23NOEMPTY:25, 25NOEMPTY:26, 26NOEMPTY:27, 27NOEMPTY:28, 28NOEMPTY:30, 30NOEMPTY:31, 31NOEMPTY:32, 32NOEMPTY:33, 33NOEMPTY:34, 34NOEMPTY:35, 35NOEMPTY:36, 36NOEMPTY:37, 37NOEMPTY:38, 38NOEMPTY:39, 39NOEMPTY:40, 40